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TUBE TYPES NOT RECOMMENDED FOR NEW EQUIPMENT DESIGN

The following listed electron tube types should not generally be considered for new equipment design without prior assurance of availability. Some of these types use bulb or base styles or manufacturing techniques and processes which no longer are available to the tube industry. Others, because of a continued low demand, have disappeared from manufacturers' and jobbers' stocks and most likely will never be manufactured again.

TUNG-SOL ELECTRIC INC., ELECTRON TUBE DIVISION, BLOOMFIELD, NEW JERSEY, U.S.A., APRIL 1, 1962 PLATE #6429

TUBE TYPES NOT RECOMMENDED FOR NEW EQUIPMENT DESIGN

TYPE	DESCRIPTION	FILAMENT VOLTS	FILAMENT AMPERES	TYPE OF CATHODE	APPLICATION	TYPICAL OPERATING CONDITIONS AND CHARACTERISTICS: PLATE VOLTS	SCREEN GRID VOLTS	CONTROL GRID VOLTS (NEG.)	PLATE CURRENT M.A.	SCREEN CURRENT M.A.	TRANS. CONDUCTANCE μMHOS	PLATE RESISTANCE MEGOHMS	AMPLIFICATION FACTOR	LOAD RESISTANCE OHMS	POWER OUTPUT WATTS	RECTIFIER CONDENSER INPUT: MAX. A.C. RMS VOLTS PER PLATE	RECTIFIER CONDENSER INPUT: MAX. PEAK INVERSE VOLTS	RECTIFIER CONDENSER INPUT: MAX. D.C. OUTPUT M.A.	BULB: STYLE	BULB: OUTLINE NO.	BASE: STYLE	BASE: BASING	TYPE
00A	TRIODE	5	0.25	FIL.	DETECTOR	45		0	1.5		666	30	20						ST-14	78	MED. 4 PIN	4D	**00A**
01A	TRIODE	5	0.25	FIL.	CLASS A AMPLIFIER	135		9	3	0.8	800	10	8						ST-14	78	MED. 4 PIN	4D	**01A**
0Y4	GAS FILLED DIODE			COLD	HALF-WAVE RECTIFIER	Pins 7-8 Must be Connected. Peak Current: 500 Ma. Max.								Max. DC Starting Voltage: 95 V. Tube Drop: Approx. 12 V.		300	40 to 75		MT-8	17	5 PIN OCTAL	4BU	**0Y4**
0Y4G	GAS FILLED DIODE			COLD	HALF-WAVE RECTIFIER	SAME CHARACTERISTICS AS 0Y4													T-7	12	5 PIN OCTAL	4BU	**0Y4G**
0Z4G	GAS FILLED DOUBLE DIODE			COLD	FULL-WAVE RECTIFIER	Peak starting-supply voltage per plate: 300 min. Peak plate-to-plate voltage: 1000 DC output voltage: 300; peak plate current: 200 ma.												30 to 75	T-7	12	5 PIN OCTAL	4R•	**0Z4G**
1A3	DIODE	1.4	0.15	HEATER	HF DETECTOR RECTIFIER											117	330	0.5	T-5½	4	MIN. 7 PIN	5AP	**1A3**
1A4P	PENTODE	2	0.06	FIL.	CLASS A AMPLIFIER	180	67.5	3	2.3	0.8	750	1000	750	Cutoff: 15 μmhos @ −15 V.					ST-12	72	SMALL 4 PIN	4M	**1A4P**
1A4T	TETRODE	2	0.06	FIL.	CLASS A AMPLIFIER	180	67.5	3	2.3	0.7	750	960	720						ST-12	72	MED. 4 PIN	4K	**1A4T**
1A5GT	PENTODE	1.4	0.05	FIL.	CLASS A AMPLIFIER	90 85	90 85	4.5 4.5	4 2.5	0.8 0.7	850 800	300 300		25,000 0.115 25,000 0.100		Signal: 3.2 V. RMS			T-9	35	7 PIN OCTAL	6X	**1A5GT**
1A6	HEPTODE	2	0.06	FIL.	CONVERTER	180 135	67.5 67.5	3 3	1.3 1.2	2.4 2.5	300 275	500 400		Eg_2 = 180 V. Eg_2 = 135 V.					ST-12	72	SMALL 6 PIN	6L	**1A6**
1A7G	HEPTODE	1.4	0.05	FIL.	CONVERTER	90	45	0	0.55	0.6	250	600		Eg_2 = 90 V. Ig_2 = 1.2 Ma. Osc. Grid Resistor = 0.2 Meg. Ig_1 = 35 μa					T-9	52	8 PIN OCTAL	7Z	**1A7G**
1A7GT	HEPTODE	1.4	0.05	FIL.	CONVERTER	90	90	0	0.6	1.2	250	600		Eg_2: 90 volts: Ig_2: 1.2 ma. Osc. grid resistor: 0.2 megohm; Ig_1: 35 μa.					T-9	34	8 PIN OCTAL	7Z	**1A7GT**
1AB5	PENTODE	1.2	0.13	FIL.	CLASS A AMPLIFIER	150 90	150 90	1.5 0	6.8 3.5	2 0.8	1350 1100	1250 275		Cutoff: 10 μmhos @ −23 V. Cutoff: 10 μmhos @ −14 V.					T-9	25	8 PIN LOC.	5BF	**1AB5**
1AF4	PENTODE	1.4	0.025	FIL.	CLASS A AMPLIFIER	67.5 90	67.5 90	0 0	1.2 1.8	0.32 0.56	925 1050	2200 1800		Cut-off: 10 μmhos at −2.8 V. Cut-off: 10 μmhos at −3.8 V.					T-5½	4	MIN. 7 PIN	6AR	**1AF4**

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1AF5-1D8GT

TYPE	DESCRIPTION	FILAMENT VOLTS	FILAMENT AMPERES	FILAMENT TYPE OF CATHODE	APPLICATION	TYPICAL OPERATING CONDITIONS AND CHARACTERISTICS: PLATE VOLTS	SCREEN GRID VOLTS	CONTROL GRID VOLTS (NEG.)	PLATE CURRENT MA.	SCREEN CURRENT MA.	TRANSCONDUCTANCE μMHOS	PLATE RESISTANCE MEGOHMS	AMPLIFICATION FACTOR	LOAD RESISTANCE OHMS	POWER OUTPUT WATTS	MAX. A.C. RMS VOLTS PER PLATE	MAX. PEAK INVERSE VOLTS	MAX. D.C. OUTPUT MA.	BULB: STYLE	BULB: OUTLINE NO.	BASE: STYLE	BASE: BASING	TYPE
1AF5	DIODE PENTODE	1.4	0.025	FIL.	CLASS A AMPLIFIER	90	90	0	1.1	0.4	600	2000	Cutoff: 10 μmhos @ −3.5 V.						T-5½	4	MIN. 7 PIN	6AU	1AF5
1AJ5	DIODE PENTODE	1.25	0.04	FIL.	CLASS A AMPLIFIER	45	45	0	1.0	0.3	425	300	Minimum Diode Current @ 10 VDC = 0.5 Ma.						T-2X3	2	SUB. MIN. 6 PIN	1AJ5	1AJ5
1AX2	DIODE	1.4	0.65	FIL.	HALF-WAVE RECTIFIER	Positive Pulse Plate Voltage = 20,000 V. Negative Pulse Plate Voltage = 5000 V.							DC Output Voltage = 20,000 V. DC Load Current = 300 μa.						T-6½	10	MIN. 9 PIN	9Y	1AX2
1B4P	PENTODE	2	0.06	FIL.	CLASS A AMPLIFIER	180	67.5	3	1.7	0.6	650	1500	1000						ST-12	72	SMALL 4 PIN	4M	1B4P
1B5	DOUBLE DIODE TRIODE	2	0.06	FIL.	CLASS A AMPLIFIER	135		3	0.8		575	35	20						ST-12	70	SMALL 6 PIN	6M	1B5
1B7G	HEPTODE	1.4	0.1	FIL.	CONVERTER	90	45	0	1.5	1.3	350	350	Eg_2 = 90 V. Ig_2 = 1.6 Ma. Ig_1 = 35 μa Osc. Grid Resistor = 0.2 Megohm						T-9	44	8 PIN OCTAL	7Z	1B7G
1B8GT	DIODE TRIODE HEPTODE	1.4	0.1	FIL.	CLASS A AMPLIFIER	90 90	90	6 0	6.3[F] 0.15	1.4[F]	1150 275	240		14,000	0.21				T-9	33	8 PIN OCTAL	8AJ	1B8GT
1C5GT	PENTODE	1.4	0.1	FIL.	CLASS A AMPLIFIER	90	90	7.5	7.5	1.6	1550	115		8000	0.24	Signal: 5.3 V. RMS			T-9	35	7 PIN OCTAL	6X	1C5GT
1C6	HEPTODE	2	0.12	FIL.	CONVERTER	180 135	67.5 67.5	3 3	1.5 1.3	2 2.5	325 300	700 600	Eg_2 = 180 V. thru 20,000 Ohms Eg_2 = 135 V.						ST-12	72	SMALL 6 PIN	6L	1C6
1C7G	HEPTODE	2	0.12	FIL.	CONVERTER	180 135	67.5 67.5	3 3	1.5 1.3	2 2.5	325 300	700 600	Eg_2 = 180 V. thru 20,000 Ohms Eg_2 = 135 V.						ST-12	71	8 PIN OCTAL	7Z	1C7G
1C8	HEPTODE	1.25	0.04	FIL.	CONVERTER	30	30	0	0.32	0.75	100	300	Osc. Grid Resistance: 0.1 Meg. Osc. Grid Current: 30 μamp						T-3	1	SUB. MIN. 8 PIN	8CN	1C8
1D5GP	PENTODE	2	0.06	FIL.	CLASS A AMPLIFIER	180	67.5	3	2.3	0.75	750	960	750						ST-12	71	8 PIN OCTAL	5Y	1D5GP
1D5GT	TETRODE	2	0.06	FIL.	CLASS A AMPLIFIER	180	67.5	3	2.3	0.7	750	960	720						ST-12	71	8 PIN OCTAL	5R	1D5GT
1D7G	HEPTODE	2	0.06	FIL.	CONVERTER	180 135	67.5 67.5	3[Z] 3[Z]	1.3 1.2	2.4 2.5	300 275	500 400	Eg_2 = 180 V. thru 20,000 ohms Eg_2 = 135 V.						ST-12	71	8 PIN OCTAL	7Z	1D7G
1D8GT	DIODE TRIODE PENTODE	1.4	0.1	FIL.	TRIODE UNIT AS CLASS A AMPLIFIER	90		0	0.3		325	77	25						T-9	33	8 PIN OCTAL	8AJ	1D8GT
					PENTODE UNIT AS CLASS A AMPLIFIER	90	90	9	5	1	925	200		1200	0.2								

[F] Zero signal. [Z] Minimum value.

TUNG-SOL

TUBES NOT RECOMMENDED FOR NEW EQUIPMENT DESIGN

TUNG-SOL ELECTRIC INC., ELECTRON TUBE DIVISION, BLOOMFIELD, NEW JERSEY, U.S.A. APRIL 1, 1962 PLATE #6930

		FILAMENT				TYPICAL OPERATING CONDITIONS AND CHARACTERISTICS												BULB		BASE	
TYPE	DESCRIPTION	VOLTS	AMPERES	TYPE OF CATHODE	APPLICATION	PLATE VOLTS	SCREEN GRID VOLTS	CONTROL GRID VOLTS (NEG.)	PLATE CURRENT MA.	SCREEN CURRENT MA.	TRANS-CONDUCTANCE MMHOS	PLATE RESISTANCE KILOHMS	AMPLIFICATION FACTOR	LOAD RESISTANCE OHMS	POWER OUTPUT WATTS	RECTIFIER CONDENSER INPUT: MAX. A.C. VOLTS RMS PER PLATE	RECTIFIER CONDENSER INPUT: MAX. PEAK INVERSE VOLTS	RECTIFIER CONDENSER INPUT: MAX. D.C. OUTPUT MA.	STYLE	OUTLINE NO.	STYLE	BASING	TYPE
1E4G	TRIODE	1.4	0.05	FIL.	CLASS A AMPLIFIER	90 90		3 0	1.5 4.5		825 1325	17 11	14 14.5						T-9	48	7 PIN OCTAL	5S	**1E4G**
1E5GP	PENTODE	2	0.06	FIL.	CLASS A AMPLIFIER	180	67.5	3	1.7	0.6	650	1500	1000						ST-12	71	7 PIN OCTAL	5Y	**1E5GP**
1E5GT	TETRODE	2	0.06	FIL.	CLASS A AMPLIFIER	180	67.5	3	1.7	0.6	650	1500	1000						ST-12	71	8 PIN OCTAL	5R	**1E5GT**
1E7G	DOUBLE PENTODE	2	0.24	FIL.	CLASS A AMPLIFIER	135	135	4.5	7.5	2.2	1425	260		16,000	0.29	Each Section			ST-12	50	8 PIN OCTAL	8C	**1E7G**
1F4	PENTODE	2	0.12	FIL.	CLASS A AMPLIFIER	135 90	135 90	4.5 3	8 4	2.4 1.1	1700 1400	200 240	340 340	16,000 20,000	0.31 0.11	Signal: 3.2 V. RMS Signal: 2.1 V. RMS			ST-14	78	MED. 5 PIN	5K	**1F4**
1F5G	PENTODE	2	0.12	FIL.	CLASS A AMPLIFIER	135 90	135 90	4.5 3	8 4	2.4 1.1	1700 1400	200 240	340 340	16,000 20,000	0.31 0.11	Signal: 3.2 V. RMS Signal: 3.2 V. RMS			ST-14	77	7 PIN OCTAL	6X	**1F5G**
1F6	DOUBLE DIODE PENTODE	2	0.06	FIL.	CLASS A AMPLIFIER	180	67.5	1.5	2.2	0.7	650	1000	650	Cutoff: 20 μmhos @ −12 V.					ST-12	71	SMALL 6 PIN	6W	**1F6**
1F7G	DOUBLE DIODE PENTODE	2	0.06	FIL.	CLASS A AMPLIFIER	180	67.5	1.5	2.2	0.7	650	1000	650	Cutoff: 20 μmhos @ −12 V.					ST-12	71	8 PIN OCTAL	7AD	**1F7G**
1F7GH	DOUBLE DIODE PENTODE	2	0.06	FIL.	CLASS A AMPLIFIER	180	67.5	1.5	2.2	0.7	650	1000	650	Cutoff: 20 μmhos @ −12 V.					ST-12	71	8 PIN OCTAL	7AF	**1F7GH**
1G4GT	TRIODE	1.4	0.05	FIL.	CLASS A AMPLIFIER	90		6	2.3		825	10.7	8.8						T-9	32	8 PIN OCTAL	5S	**1G4GT**
1G5G	PENTODE	2	0.12	FIL.	CLASS A AMPLIFIER	135 90	135 90	13.5 6	8.7 8.5	2.5 2.5	1550 1550			9000 8500	0.55 0.25	Signal: 6.5 V. RMS Signal: 4.2 V. RMS			ST-14	77	7 PIN OCTAL	7AB	**1G5G**
1G6GT	DOUBLE TRIODE	1.4	0.1	FIL.	CLASS B AMPLIFIER	90		0	2[F]	Current for Both Sections				12,000	0.35	Load is Plate-to-Plate			T-9	35	8 PIN OCTAL	7AB	**1G6GT**
1H4G	TRIODE	2	0.06	FIL.	CLASS A AMPLIFIER	180		13.5	3.1		900	10.3	9.3						ST-12	69	7 PIN OCTAL	5S	**1H4G**
1H5GT	DIODE TRIODE	1.4	0.05	FIL.	CLASS A AMPLIFIER	90 67.5		0 0	0.15 0.06		275 210	240 300	65 60						T-9	34	7 PIN OCTAL	5Z	**1H5GT**
1H6G	DOUBLE DIODE TRIODE	2.0	0.06	FIL.	CLASS A AMPLIFIER	135		3	0.8		575	35	20						T-9	35	8 PIN OCTAL	7AA	**1H6G**

[F] Zero signal.

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1J5G-1N6G

TYPE	DESCRIPTION	FILAMENT VOLTS	FILAMENT AMPERES	TYPE OF CATHODE	APPLICATION	PLATE VOLTS	SCREEN GRID VOLTS	CONTROL GRID VOLTS (NEG.)	PLATE CURRENT MA.	SCREEN CURRENT MA.	TRANS-CONDUCTANCE μMHOS	PLATE RESISTANCE MEGOHMS	AMPLIFICATION FACTOR	LOAD RESISTANCE OHMS	POWER OUTPUT WATTS	RECTIFIER CONDENSER INPUT: MAX. R.M.S. VOLTS PER PLATE	RECTIFIER CONDENSER INPUT: MAX. PEAK INVERSE VOLTS	RECTIFIER CONDENSER INPUT: MAX. D.C. OUTPUT MA.	BULB STYLE	BULB OUTLINE NO.	BASE STYLE	BASE BASING	TYPE
1J5G	PENTODE	2.0	0.12	FIL.	CLASS A AMPLIFIER	135	135	16.5	7	2	950		100	13,500	0.45				ST-14	77	7 PIN OCTAL	6X	1J5G
1J6G	DOUBLE TRIODE	2.0	0.24	FIL.	CLASS B AMPLIFIER	135		0	10	Current for Both Sections				10,000	2.1	Load is Plate-to Plate			ST-12	69	8 PIN OCTAL	7AB	1J6G
1L6	HEPTODE	1.4	0.05	FIL.	CONVERTER	90	90	0	0.5	1.2	300	650	Ig_2: 1.2 ma. Ig_1: 35 μa thru 200 000 ohms Ia: 2.35 ma.						T-5½	4	MIN. 7 PIN	7DC	1L6
1LA4	PENTODE	1.4	0.05	FIL.	CLASS A AMPLIFIER	90	90	4.5	4	0.8	850	300		2500	0.115				T-9	26	8 PIN LOC.	5AD	1LA4
1LA6	HEPTODE	1.4	0.05	FIL.	CONVERTER	90	45	0 Min.	0.55	0.6	250	750	Eg_2 = 90 V.; Ig_2 = 1.2 Ma.; Ig_1 = 35 μa Osc. Grid Resistor = 0.2 Megohm						T-9	26	8 PIN LOC.	7AK	1LA6
1LB4	PENTODE	1.4	0.05	FIL.	CLASS A AMPLIFIER	90 45	90 45	9 4.5	5[F] 1.6[F]	1[F] 0.3[F]	925 650	250 400		12,000 20,000	0.2 .035				T-9	26	8 PIN LOC.	5AD	1LB4
1LC5	PENTODE	1.4	0.05	FIL.	CLASS A AMPLIFIER	90 45	45 45	0 0	1.15	0.30 0.35	775 750	1000 700	Cutoff: 10 μa @ −3.4 V. Cutoff: 10 μa @ −3.4 V.						T-9	26	8 PIN LOC.	7AO	1LC5
1LC6	HEPTODE	1.4	0.05	FIL.	CONVERTER	90 45	35 35	0 0	0.7 0.7	0.7 0.75	275 250	650 300	Eg_2 = 45 V.; Ig_2 = 1.4 Ma.; Ig_1 = 35 μa Osc. Grid Resistor = 0.2 Megohm						T-9	26	8 PIN LOC.	7AK	1LC6
1LD5	DIODE PENTODE	1.4	0.05	FIL.	CLASS A AMPLIFIER	90	45	0	0.6	0.1	575	750							T-9	26	8 PIN LOC.	6AX	1LD5
1LE3	TRIODE	1.4	0.05	FIL.	CLASS A AMPLIFIER	90 90		3 0	1.4 4.5		760 1300	19 11.2	14.5 14.5						T-9	26	8 PIN LOC.	4AA	1LE3
1LG5	PENTODE	1.4	0.05	FIL.	CLASS A AMPLIFIER	90 90	90 45	1.5 0	3.7 1.7	0.9 0.4	1150 800	500 1000	Cutoff: 10 μmhos @ −19 V. Cutoff: 10 μmhos @ −10 V.						T-9	26	8 PIN LOC.	7AO	1LG5
1LH4	DIODE TRIODE	1.4	0.05	FIL.	CLASS A AMPLIFIER	90 67.5		0 0	0.15 0.06		275 210	240 300	65 60						T-9	26	8 PIN LOC.	5AG	1LH4
1LN5	PENTODE	1.4	0.05	FIL.	CLASS A AMPLIFIER	90	90	0	1.6	0.35	800	1100	Cut-off: 10 μmhos at −4.5 V.						T-9	26	8 PIN LOC.	7AO	1LN5
1N6G	DIODE PENTODE	1.4	0.05	FIL.	CLASS A AMPLIFIER	90	90	4.5	3.1		800	300		25,000	0.1	Signal: 3.5 V. RMS			T-9	48	8 PIN OCTAL	7AM	1N6G

[F] Zero signal.

TUNG-SOL ELECTRIC INC., ELECTRON TUBE DIVISION, BLOOMFIELD, NEW JERSEY, U.S.A. APRIL 1, 1962 PLATE #6431

1N6GT-1V5

TYPE	DESCRIPTION	FILAMENT VOLTS	FILAMENT AMPERES	TYPE OF CATHODE	APPLICATION	TYPICAL OPERATING CONDITIONS AND CHARACTERISTICS: PLATE VOLTS	SCREEN GRID VOLTS	CONTROL GRID VOLTS (NEG.)	PLATE CURRENT MA.	SCREEN CURRENT MA.	TRANS-CONDUCTANCE MICROMHOS	PLATE RESISTANCE MEGOHMS	AMPLIFICATION FACTOR	LOAD RESISTANCE OHMS	POWER OUTPUT WATTS	RECTIFIER CONDENSER INPUT: MAX. A.C. PLATE VOLTS PER PLATE	RECTIFIER CONDENSER INPUT: MAX. PEAK INVERSE VOLTS	RECTIFIER CONDENSER INPUT: MAX. D.C. OUTPUT MA.	BULB: STYLE	BULB: OUTLINE NO.	BASE: STYLE	BASE: BASING	TYPE
1N6GT	DIODE PENTODE	1.4	0.05	FIL.	CLASS A AMPLIFIER	90	90	4.5	3.1		800	300		25,000	0.1	Signal: 3.5 V. RMS			T-9	36	8 PIN OCTAL	7AM	1N6GT
1P5G	PENTODE	1.4	0.05	FIL.	CLASS A AMPLIFIER	90	90	0	2.3	0.7	750	800	Cutoff: 10 μmhos @ −12 V.						T-9	52	7 PIN OCTAL	5Y	1P5G
1P5GT	PENTODE	1.4	0.05	FIL.	CLASS A AMPLIFIER	90	90	0	2.3	0.7	750	800	Cut-off: 10 μmhos at −12 V.						T-9	34	7 PIN OCTAL	5Y	1P5GT
1Q5GT	BEAM PENTODE	1.4	0.1	FIL.	CLASS A AMPLIFIER	90 85	90 85	4.5 5	9.5[F] 7.0[F]	1.3[F] 0.8[F]	2200 1950	90 70		8000 9000	0.27 0.25	Signal: 3.2 V. RMS			T-9	35	7 PIN OCTAL	6AF	1Q5GT
1Q6	DIODE PENTODE	1.25	0.04	FIL.	CLASS A AMPLIFIER	67.5 30	67.5 30	0 0	1.6 0.33	0.4 0.09	600 330	400 500							T-3	1	SUB. MIN. 8 PIN	8CO	1Q6
1R4	DIODE	1.4	0.15	FIL.	RF RECTIFIER	Resonant Frequency: 1500 Mc. Voltage Drop @ 2 Ma.; 8 Vdc.											117	1	T-9	26	8 PIN LOC.	4AH	1R4
1S4	PENTODE	1.4	0.1	FIL.	CLASS A AMPLIFIER	90 45	67.5 45	7 4.5	7.4[F] 3.8[F]	1.4[F] 0.8[F]	1575 1250	100 100		8000 8000	0.27 0.065	Signal: 5 V. RMS Signal: 3.2 V. RMS			T-5½	4	MIN. 7 PIN	7AV	1S4
1SA6GT	PENTODE	1.4	0.05	FIL.	CLASS A AMPLIFIER	90 45	67.5 45	0 0	2.4 1.1	0.68 0.3	970 750	800 700	Cutoff: 5 μmhos @ −5.5 V. Cutoff: 5 μmhos @ −3.5 V.						T-9	36	8 PIN OCTAL	6BD	1SA6GT
1SB6GT	DIODE PENTODE	1.4	0.05	FIL.	CLASS A AMPLIFIER	90 45	67.5 45	0 0	1.45 0.6	0.38 0.16	665 500	700 900							T-9	35	8 PIN OCTAL	6AF	1SB6GT
1T5GT	BEAM PENTODE	1.4	0.05	FIL.	CLASS A AMPLIFIER	90	90	6	6.5	0.8	1150	250		14,000	0.17	Signal: 4.3 V. RMS			T-9	35	7 PIN OCTAL	6X	1T5GT
1U6	HEPTODE	1.4	0.025	FIL.	CONVERTER	90	90	0	0.6	1.1	300	500							T-5½	4	MIN. 7 PIN	7DC	1U6
1-V	DIODE	6.3	0.3	HEATER	HALF-WAVE RECTIFIER												325	1000 45	ST-12	70	SMALL 4 PIN	4G	1-V
1V5	PENTODE	1.25	0.04	FIL.	CLASS A AMPLIFIER	67.5	67.5	4.5	2	0.4	750	150		25,000	0.05				T-3	1	SUB. MIN. 8 PIN	8CP	1V5

[F] Zero signal.

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1W4-2B7

TYPE	DESCRIPTION	FILAMENT VOLTS	FILAMENT AMPERES	TYPE OF CATHODE	APPLICATION	TYPICAL OPERATING CONDITIONS AND CHARACTERISTICS	BULB STYLE	BULB OUTLINE NO.	BASE STYLE	BASE BASING	TYPE
1W4	PENTODE	1.4	0.05	FIL.	CLASS A AMPLIFIER	Plate Volts: 67.5 / 90; Screen Grid Volts: 67.5 / 90; Control Grid Volts (neg.): 6 / 9; Plate Current Ma.: 3.8[F] / 5[F]; Screen Current Ma.: 0.8[F] / 1[F]; Trans-conductance μmhos: 875 / 925; Plate Resistance Megohms: 300 / 250; Amplification Factor: —; Load Resistance Ohms: 16,000 / 12,000; Power Output Watts: 0.1 / 0.2; Rectifier Condenser Input: Max. A.C. RMS Volts per Plate: —; Max. Peak Inverse Volts: —; Max. D.C. Output Ma.: —	T-5½	4	MIN. 7 PIN	5BZ	**1W4**
1W5	PENTODE	1.25	0.04	FIL.	RF AMPLIFIER	Plate Volts: 67.5; Screen Grid Volts: 67.5; Control Grid Volts (neg.): 0; Plate Current Ma.: 1.85; Screen Current Ma.: 0.75; Trans-conductance μmhos: 735; Plate Resistance Megohms: 700; Cutoff: 10 μamp @ −2 V.	T-3	1	SUB. MIN. 8 PIN	8CP	**1W5**
1X2A	DIODE	1.25	0.2	FIL.	HALF-WAVE RECTIFIER IN TV RECEIVERS	Peak Plate Current: 11 Ma. Max.; Max. DC Load Current: 1.1 Ma.; Positive Pulse Plate Volts: 14 KV.; Tube Voltage Drop at 7 Ma.: 100 V.; DC Output Voltage (Approx.): 14 KV.; Negative Pulse Plate Voltage: 3.5 KV.	T-6½	10	MIN. 9 PIN	9Y	**1X2A**
2A3	TRIODE	2.5	2.5	FIL.	CLASS A AMPLIFIER	Plate Volts: 250; Control Grid Volts (neg.): 45; Plate Current Ma.: 60; Trans-conductance μmhos: 5250; Plate Resistance Megohms: 0.8; Amplification Factor: 4.2; Load Resistance Ohms: 2500; Power Output Watts: 3.5; Rectifier Condenser Input: Grid bias measured from filament center	ST-16	84	MED. 4 PIN	4D	**2A3**
					CLASS AB AMPLIFIER	Plate Volts: 300; Control Grid Volts (neg.): 62; Plate Current Ma.: 80; Current and output for 2 tubes.; Load Resistance Ohms: 3000; Power Output Watts: 15; Rectifier Condenser Input: Load is plate-to-plate					
2A4G	THYRATRON	2.5	2.5	FIL.	CONTROL TUBE	Instantaneous forward or inverse anode voltage 200 V.; Anode current: peak 1.25 amps., average 0.10 amp.; Maximum averaging time: 45 sec. Cold starting time: 2 sec.	ST-12	69	7 PIN OCTAL	5S	**2A4G**
2A5	PENTODE	2.5	1.75	HEATER	CLASS A AMPLIFIER	Plate Volts: 250; Screen Grid Volts: 250; Control Grid Volts (neg.): 16.5; Plate Current Ma.: 34[F]; Screen Current Ma.: 6.5[F]; Trans-conductance μmhos: 2500; Plate Resistance Megohms: 80; Amplification Factor: —; Load Resistance Ohms: 7000; Power Output Watts: 3.2	ST-14	78	MED. 6 PIN	6B	**2A5**
2A6	DOUBLE DIODE TRIODE	2.5	0.8	HEATER	CLASS A AMPLIFIER	Plate Volts: 250; Control Grid Volts (neg.): 2; Plate Current Ma.: 0.9; Trans-conductance μmhos: 1100; Plate Resistance Megohms: 91; Amplification Factor: 100	ST-12	72	SMALL 6 PIN	6G	**2A6**
2A7	HEPTODE	2.5	0.8	HEATER	CONVERTER	Plate Volts: 250; Screen Grid Volts: 100; Control Grid Volts (neg.): 3; Plate Current Ma.: 3.5; Screen Current Ma.: 2.7; Trans-conductance μmhos: 550; Plate Resistance Megohms: 360; Eg_2 = 180 V. thru 20,000 Ohms	ST-12	72	SMALL 7 PIN	7C	**2A7**
2AF4	TRIODE	2.35	0.6	HEATER	CLASS A AMPLIFIER	Plate Volts: 80; Control Grid Volts (neg.): [A]; Plate Current Ma.: 17.5; Trans-conductance μmhos: 6500; Plate Resistance Megohms: 2.1; Amplification Factor: 13.5	T-5½	4	MIN. 7 PIN	7DK	**2AF4**
2B3	DIODE	1.75	0.25	FIL.	HIGH VOLTAGE RECTIFIER	Steady State Peak Plate Current = 50 Ma.; Rectifier Condenser Input: Max. A.C. RMS Volts per Plate: 27000; Max. Peak Inverse Volts: 0.5	T-9	49	INT. 8 PIN OCTAL	8HC	**2B3**
2B5	DOUBLE TRIODE	2.4 1.2	0.13 0.26	FIL.	AMPLIFIER	Plate Volts: 90; Control Grid Volts (neg.): 1.0; Plate Current Ma.: 2.6; Trans-conductance μmhos: 1150; Plate Resistance Megohms: 18.7; Amplification Factor: 21.5	T-3	1	SUB. MIN. 8 PIN	8DP	**2B5**
2B6	DOUBLE TRIODE	2.5	0.225	HEATER	AMPLIFIER	Plate Volts: 250 / 250; Control Grid Volts (neg.): +2.5 / 24; Plate Current Ma.: 40 / 4; Trans-conductance μmhos: 3500 / 600; Amplification Factor: 18 / 7.2; Load Resistance Ohms: 5000 / 5000; Power Output Watts: 0.035 / 0.600					**2B6**
2B7	DOUBLE DIODE PENTODE	2.5	0.8	HEATER	CLASS A AMPLIFIER	Plate Volts: 250; Screen Grid Volts: 125; Control Grid Volts (neg.): 3; Plate Current Ma.: 9; Screen Current Ma.: 2.3; Trans-conductance μmhos: 1125; Plate Resistance Megohms: 600	ST-12	72	SMALL 7 PIN	7D	**2B7**

[F] Zero signal.

[A] Bias obtained thru 150 ohm cathode resistor.

2C4-3BN4

TYPE	DESCRIPTION	FILAMENT VOLTS	FILAMENT AMPERES	TYPE OF CATHODE	APPLICATION	TYPICAL OPERATING CONDITIONS AND CHARACTERISTICS: PLATE VOLTS	SCREEN GRID VOLTS	CONTROL GRID VOLTS (NEG.)	PLATE CURRENT M.A.	SCREEN CURRENT M.A.	TRANS-CONDUCTANCE MMHOS	PLATE RESISTANCE MEGOHMS	AMPLIFICATION FACTOR	LOAD RESISTANCE OHMS	POWER OUTPUT WATTS	RECTIFIER CONDENSER INPUT: MAX. A.C. VOLTS PER PLATE	RECTIFIER CONDENSER INPUT: MAX. PEAK INVERSE VOLTS	RECTIFIER CONDENSER INPUT: MAX. D.C. OUTPUT MA.	BULB: STYLE	BULB: OUTLINE NO.	BASE: STYLE	BASE: BASING	TYPE
2C4	THYRATRON	2.5	0.65	FIL.	CONTROL TUBE	Max. Voltage Between Elements: 450 V. Avg. Anode Current: 5 Ma.											Peak Anode Current: 20 Ma. Voltage Drop at 5 Ma.: 16 V.			T-5½	4	MIN. 7 PIN	5AS	**2C4**
2E5	TRIODE INDICATOR	2.5	0.8	HEATER	TUNING INDICATOR	Plate: 250 V. thru 1 Meg. 0.24 Ma. Shadow Angle: 90° @ Zero Bias; 0° @ −8 V. Bias Target: 250 V., 4 Ma.													ST-12	70	SMALL 6 PIN	6R	**2E5**
2G5	TRIODE INDICATOR	2.5	0.8	HEATER	TUNING INDICATOR	Plate: 250 V. thru 1 Meg. 0.24 Ma. Shadow Angle: 90° at zero bias, 0° at −22 V. bias Target: 250 V., 4 Ma. Subject to wide variation													ST-12	70	SMALL 6 PIN	6R	**2G5**
2S/4S	DOUBLE DIODE	2.5	1.35	HEATER	DETECTOR	Plate Voltage: 50 Volts per Plate Cathode Current: 80 Ma.													ST-12	70	SMALL 5 PIN	5D	**2S/4S**
2V2	DIODE	2.5 1.25	0.2 0.4	FIL.	HIGH VOLTAGE RECTIFIER	Steady State Peak Plate Current: 80 Ma. Tube Voltage Drop @ 7.0 Ma.: 150 V.										15,000	2.0		T-11	57	MED. OCTAL 8 PIN	8FV	**2V2**
2V3G	DIODE	2.5	5.0	FIL.	HIGH VOLTAGE RECTIFIER											16,500	2.0		ST-12	72	SMALL 6 PIN	4Y	**2V3G**
2W3	DIODE	2.5	1.5	FIL.	HALF-WAVE RECTIFIER										350		55		MT-8	20	5 PIN OCTAL	4X	**2W3**
2W3GT	DIODE	2.5	1.5	FIL.	HALF-WAVE RECTIFIER										350		55		T-9	32	5 PIN OCTAL	4X	**2W3GT**
2X2/879	DIODE	2.5	1.75	HEATER	HIGH VOLTAGE RECTIFIER										4500	12,500	7.5		ST-12	71	SMALL 4 PIN	4AB	**2X2/879**
3A8GT	DIODE TRIODE PENTODE	1.4 2.8	0.1 0.05	FIL.	CLASS A AMP. TRIODE UNIT	90		0	0.15		275	240	65						T-9	38	8 PIN OCTAL	8AS	**3A8GT**
3B2	DIODE	3.15	0.22	HEATER	HALF WAVE RECTIFIER	Max. Peak Plate Current = 80 Ma. Max. Average Plate Current = 1.1 Ma.										25,000			T-12	68A	SHORT JUMBO 8 PIN	8GH	**3B2**
3B5GT	BEAM PENTODE	1.4 2.8	0.1 0.05	FIL.	CLASS A AMPLIFIER	67.5 67.5	67.5 67.5	7 7	8[F] 6.7[F]	0.6[F] 0.5[F]	1650 1500	100 100		5000 5000	0.2 0.18	Signal: 5 V. RMS Signal: 5 V. RMS			T-9	36	7 PIN OCTAL	7AP	**3B5GT**
3B7	DOUBLE TRIODE	1.4 2.8	0.22 0.11	FIL.	CLASS AB AMPLIFIER	135		0	18.2[F]		1900		20	16,000	1.5				T-9	26	8 PIN LOC.	7BE	**3B7**
3BN4	TRIODE	3.0	0.45*	HEATER	CLASS A AMPLIFIER	150		[B]	9.0		6800	6.3	43	Cut-off: 100 μamp. @ −6 V.					T-5½	4	MIN. 7 PIN	7EG	**3BN4**

* Heater warm-up time: 11 seconds.

[B] Bias obtained thru 220 ohm cathode resistor.

[F] Zero signal.

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3C2-5AS8

TYPE	DESCRIPTION	FILAMENT VOLTS	FILAMENT AMPERES	TYPE OF CATHODE	APPLICATION	TYPICAL OPERATING CONDITIONS AND CHARACTERISTICS: PLATE VOLTS	SCREEN GRID VOLTS	CONTROL GRID VOLTS (NEG.)	PLATE CURRENT MA.	SCREEN CURRENT MA.	TRANSCONDUCTANCE μMHOS	PLATE RESISTANCE MEGOHMS	AMPLIFICATION FACTOR	LOAD RESISTANCE OHMS	POWER OUTPUT WATTS	RECTIFIER CONDENSER INPUT: MAX. A.C. RMS VOLTS PER PLATE	RECTIFIER CONDENSER INPUT: MAX. PEAK INVERSE VOLTS	RECTIFIER CONDENSER INPUT: MAX. D.C. OUTPUT MA.	BULB: STYLE	BULB: OUTLINE NO.	BASE: STYLE	BASE: BASING	TYPE
3C2	DIODE	3.15 0.42	0.21 1.58	FIL.	HIGH VOLTAGE RECTIFIER	Steady State Peak Plate Current = 80 Ma.										33,000	1.1		T-12	26	SHORT OCTAL 8 PIN	8FV	3C2
3C5GT	PENTODE	1.4 2.8	0.1 0.05	FIL.	CLASS A AMPLIFIER	90 90	90 90	9 9	6 6	1.4 1.4	1550 1450			8000 10,000	0.24 0.26				T-9	32	7 PIN OCTAL	7AP	3C5GT
3CF6	PENTODE	3.15	0.6*	HEATER	CLASS A AMPLIFIER	200	150	[A]	9.5	2.8	6200	600	Cut-off: 35 μa @ −6.5 V.						T-5½	4	MIN. 7 PIN	7CM	3CF6
3D6	BEAM PENTODE	1.4 2.8	0.22 0.11	FIL.	CLASS A AMPLIFIER	150	90	4.5	9.9	1	2400			14,000	0.6				T-9	26	8 PIN LOC.	6BA	3D6
3E5	BEAM PENTODE	1.4 2.8	0.05 0.025	FIL.	CLASS A AMPLIFIER	110 110	90 90	7 7	8.1 7.0	1.5 1.3	1550 1450	110 120		11,000 11,000	0.33 0.30	Signal: 7 V. RMS Signal: 7 V. RMS			T-5½	4	MIN. 7 PIN	6BX	3E5
3E6	PENTODE	1.4 2.8	0.1 0.05	FIL.	SHARP CUT OFF AMPLIFIER [P] [G]	110 90	90 90	0 0	4.2 2.9	1.7 1.2	2000 1700	250 325	Cut-off: 10 μa at −5.5 V. Cut-off: 10 μa at −4.0 V.						T-9	26	8 PIN LOC.	7CJ	3E6
3LF4	BEAM PENTODE	1.4 2.8	0.1 0.05	FIL.	CLASS A AMPLIFIER [P] [G]	110 110	110 110	6.6 6.6	10 8.5	1.4 1.1	2200 2200	100 110		8000 8000	0.4 0.33				T-9	26	7 PIN OCTAL	6BB	3LF4
3Q5GT	BEAM PENTODE	1.4 2.8	0.1 0.05	FIL.	CLASS A AMPLIFIER [P] [G]	110 110	110 110	6.6 6.6	10 8.5	1.4 1.1	2200 2000	100 110		8000 8000	0.4 .33	Signal: 3.2 V. RMS			T-9	35	7 PIN OCTAL	7AQ	3Q5GT
4BA6	PENTODE	4.2	0.45*	HEATER	CLASS A AMPLIFIER	100 250	100 100	[C] [C]	10.8 11	4.4 4.2	4300 4400	250 1000	Cut-off: 40 μmhos at −20 V. Cut-off: 40 μmhos at −20 V.						T-5½	4	MIN. 7 PIN	7BK	4BA6
4BE6	HEPTODE	4.2	0.45*	HEATER	CONVERTER	100 250	100 100	1.5 1.5	2.6 2.9	7.0 6.8	455 475	400 1000							T-5½	4	MIN. 7 PIN	7CH	4BE6
4BX8	TWIN TRIODE	4.5	0.6*	HEATER	CASCODE AMPLIFIER	65		1.0	9		6700		25	Cut-off: 10 μamp. @ −7 V.					T-6½	8	MIN. 9 PIN	9AJ	4BX8
4BZ8	TWIN TRIODE	4.2	0.6*	HEATER	CLASS A AMPLIFIER	125		[D]	10		8000	5.6	45	Cut-off: 50 μmhos @ −13 V.					T-6½	8	MIN. 9 PIN	9AJ	4BZ8
4CE5	PENTODE	4.2	0.45*	HEATER	CLASS A AMPLIFIER	200	150	[A]	9.5	2.8	6200	600	Cut-off: 35 μamp. @ −6.5 V.						T-5½	4	MIN. 7 PIN	7BD	4CE5
4DK6	PENTODE	4.2	0.45*	HEATER	CLASS A AMPLIFIER	125	125	[H]	12	3.8	9800		Cut-off: 20 μa @ −6.5 V.						T-5½	4	MIN. 7 PIN	7CM	4DK6
5AS8	DIODE PENTODE	4.7	0.6*	HEATER	CLASS A AMPLIFIER	200	150	[A]	9.5	3	6200	300	Cut-off: 10 μa @ −8 V.						T-6½	8	MIN. 9 PIN	9DS	5AS8

* Heater warm-up time: 11 seconds.

[A] Bias obtained thru 180 ohm cathode resistor.

[D] Bias obtained thru 100 ohm cathode resistor.

[G] Values for series filament.

[C] Bias obtained thru 68 ohm cathode resistor.

[H] Bias obtained thru 56 ohm cathode resistor.

[P] Values for parallel filament.

TUNG-SOL ELECTRIC INC., ELECTRON TUBE DIVISION, BLOOMFIELD, NEW JERSEY, U.S.A., APRIL 1, 1962 PLATE #6433

TUNG-SOL

TUBES NOT RECOMMENDED FOR NEW EQUIPMENT DESIGN

TYPE	DESCRIPTION	FILAMENT VOLTS	FILAMENT AMPERES	TYPE OF CATHODE	APPLICATION	TYPICAL OPERATING CONDITIONS AND CHARACTERISTICS: PLATE VOLTS	SCREEN GRID VOLTS	CONTROL GRID VOLTS (NEG.)	PLATE CURRENT MA.	SCREEN CURRENT MA.	TRANS-CONDUCTANCE MMHOS	PLATE RESISTANCE KILOHMS	AMPLIFICATION FACTOR	LOAD RESISTANCE OHMS	POWER OUTPUT WATTS	RECTIFIER CONDENSER INPUT: MAX. A.C. RMS VOLTS PER PLATE	RECTIFIER CONDENSER INPUT: MAX. PEAK INVERSE VOLTS	RECTIFIER CONDENSER INPUT: MAX. D.C. OUTPUT MA.	BULB: STYLE	BULB: OUTLINE NO.	BASE: STYLE	BASE: BASING	TYPE
5AV8	TRIODE PENTODE	4.7	0.6*	HEATER	CLASS A AMPLIFIER B / A	200 / 200	150	6 G	13 / 9.5	2.8	3300 / 6200	5.75 / 300	19	Cut-off: 10 μamp. @ −19 V. / Cut-off: 10 μamp. @ −8 V.					T-6½	8	MIN. 9 PIN	9DZ	5AV8
5AW4	DIODE	5.0	4.0	FIL.	FULL WAVE RECTIFIER	Tube Voltage Drop: Ib = 250 Ma. DC per Plate: 46 V.										450 / 550		250 / 250	T-12	68	OCTAL 5 PIN	5T	5AW4
5AX4GT	DOUBLE DIODE	5	2.5	FIL.	FULL-WAVE RECTIFIER	Max. Steady State Peak Plate Current per Plate: 525 Ma. Max. Transient Peak Plate Current per Plate: 3.5 Amp. Tube Voltage Drop at 175 Ma.: 65 V.										350	1400	175	T-9	37	5 PIN OCTAL	5T	5AX4GT
5BE8	TRIODE PENTODE	4.7	0.6*	HEATER	CLASS A AMPLIFIER B / A	150 / 250	110	0 E / 0 J	18 / 10	3.5	8500 / 5200	5 / 400	40	Cut-off: 10 μa @ −12 V. / Cut-off: 10 μa @ −12 V.					T-6½	8	MIN. 9 PIN	9EG	5BE8
5BS8	TWIN DIODE	5.6	0.45*	HEATER	CLASS A AMPLIFIER	150		E	10		7200	5	36	Cut-off: 10 μa @ −7 V. (Section 2 Only)					T-5½	8	MIN. 9 PIN	9AJ	5BS8
5BT8	TWIN DIODE PENTODE	4.7	0.6*	HEATER	GENERAL PURPOSE	200	150	G	9.5	2.8	6200	300		Cut-off: 10 μamp. @ −8 V.					T-6½	8	MIN. 9 PIN	9FE	5BT8
5BZ7	TWIN TRIODE	5.6	0.45*	HEATER	CLASS A AMPLIFIER	150			10		6800	5.6	38						T-6½	8	MIN. 9 PIN	9AJ	5BZ7
5CM6	PENTODE	4.7	0.6*	HEATER	VERTICAL DEFLECTION AMPLIFIER	250 / 250	250	12.5 / 12.5	45 / 49.5	4.5	4100 / 5000	50 / 19.6	9.8	Cutoff: 0.5 Ma. @ −37 V. / Cutoff: 0.5 Ma. @ −37 V.					T-6½	9	MIN. 9 PIN	9CK	5CM6
5CM8	TRIODE PENTODE	4.7	0.6*	HEATER	CLASS A AMPLIFIER B / D	250 / 200	150	2 G	1.8 / 9.5	2.8	2000 / 6200	50 / 300	100	Cut-off: 10 μamp. @ −8 V.					T-6½	8	MIN. 9 PIN	9FZ	5CM8
5T4	DOUBLE DIODE	5	2	FIL.	FULL-WAVE RECTIFIER											450	1550	225	MT-10	21	5 PIN OCTAL	5T•	5T4
5U4GA	DOUBLE DIODE	5.0	3.0	FIL.	FULL WAVE RECTIFIER	Tube Voltage Drop: Ib = 250 Ma. DC per Plate: 44 V.										450 / 550	1550 / 1550	250 / 250	T-11	58	OCTAL 8 PIN	5T	5U4GA
5W4	DOUBLE DIODE	5	1.5	FIL.	FULL-WAVE RECTIFIER											350	1400	100	MT-88	20	5 PIN OCTAL	5T	5W4
5W4GT	DOUBLE DIODE	5	1.5	FIL.	FULL-WAVE RECTIFIER											350	1400	100	T-9	37	5 PIN OCTAL	5T	5W4GT
5X3	DOUBLE DIODE	5	2	FIL.	FULL-WAVE RECTIFIER											1275		30	ST-14	78	MED. 4 PIN	4C	5X3
5X4G	DOUBLE DIODE	5	3	FIL.	FULL-WAVE RECTIFIER											450	1550	225	ST-16	82	8 PIN OCTAL	5Q	5X4G
5Y4G	DOUBLE DIODE	5	2	FIL.	FULL-WAVE RECTIFIER											350	1400	125	ST-14	77	8 PIN OCTAL	5Q	5Y4G

* Heater warm-up time: 11 seconds.
A Pentode section.
B Triode section.
D Tetrode section.
E Bias obtained thru 220 ohm cathode resistor.
G Bias obtained thru 180 ohm cathode resistor.
H Bias obtained thru 56 ohm cathode resistor.
J Bias obtained thru 68 ohm cathode resistor.
• Pin #1 has no connection.

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5Y4GA-6AD6G

TYPE	DESCRIPTION	FILAMENT VOLTS	FILAMENT AMPERES	TYPE OF CATHODE	APPLICATION	TYPICAL OPERATING CONDITIONS AND CHARACTERISTICS: PLATE VOLTS	SCREEN GRID VOLTS	CONTROL GRID VOLTS (NEG.)	PLATE CURRENT MA.	SCREEN CURRENT MA.	TRANSCONDUCTANCE MICROMHOS	PLATE RESISTANCE MEGOHMS	AMPLIFICATION FACTOR	LOAD RESISTANCE OHMS	POWER OUTPUT WATTS	RECTIFIER CONDENSER INPUT: MAX. A.C. VOLTS RMS PER PLATE	RECTIFIER CONDENSER INPUT: MAX. PEAK INVERSE VOLTS	RECTIFIER CONDENSER INPUT: MAX. D.C. OUTPUT MA.	BULB: STYLE	BULB: OUTLINE NO.	BASE: STYLE	BASE: BASING	TYPE
5Y4GA	DOUBLE DIODE	5.0	2.0	FIL.	FULL WAVE RECTIFIER											350 350	1400 1400	125 125	T-12	64	OCTAL 8 PIN	5Q	5Y4GA
5Z4	DOUBLE DIODE-	5	2	HEATER	FULL-WAVE RECTIFIER											350	1400	125	MT-8B	20	5 PIN OCTAL	5L	5Z4
6A3	TRIODE	6.3	1	FIL.	CLASS A AMPLIFIER	250		45	60		5250	0.8	4.2	2500	3.2				ST-16	84	MED. 4 PIN	4D	6A3
6A4/LA	PENTODE	6.3	0.3	FIL.	CLASS A AMPLIFIER	180	180	12	22	3.9	2200	45.5		8000	1.4				ST-14	78	MED. 5 PIN	5B	6A4/LA
6A6	DOUBLE TRIODE	6.3	0.8	HEATER	CLASS B AMPLIFIER	300		0	35[F]	Current for both sections				8000	8	Load is plate-to-plate			ST-14	78	MED. 7 PIN	7B	6A6
					CLASS A AMPLIFIER	294		6	7		3200	11	35	Both sections in parallel									
6A7	HEPTODE	6.3	0.3	HEATER	CONVERTER	250 100	250 100	3 1.5	3.5 1.1	4.0 2.0	550 360	360 600							ST-12	72	SMALL 7 PIN	7C	6A7
6A8	HEPTODE	6.3	0.3	HEATER	CONVERTER	SAME CHARACTERISTICS AS TYPE 6A8GT													MT-8A	18	8 PIN OCTAL	8A	6A8
6A8G	HEPTODE	6.3	0.3	HEATER	CONVERTER	SAME CHARACTERISTICS AS TYPE 6A8GT													ST-12	71	8 PIN OCTAL	8A*	6A8G
6A8GT	HEPTODE	6.3	0.3	HEATER	CONVERTER	250 100	250 100	3 1.5	3.5 1.1	4.0 2.0	550 360	360 600							T-9	34	8 PIN OCTAL	8A	6A8GT
6AB5	TRIODE INDICATOR	6.3	0.15	HEATER	TUNING INDICATOR	Plate: 135 V. thru 0.25 Meg. 0.5 Ma. Target: 135 V. 2 Ma.							Shadow Angle: 90° @ Zero Bias. 0° @ −10 V.						T-9	51	SMALL 6 PIN	6R	6AB5
6AB6G	TRIODE PENTODE	6.3	0.5	HEATER	DIRECT-COUPLED AMPLIFIER	250 250		0 0	34 5		1800	40	72	8000	3.5	Signal: 18 V. RMS			ST-12	73	8 PIN OCTAL	7AU	6AB6G
6AB7	PENTODE	6.3	0.45	HEATER	CLASS A AMPLIFIER [V] [W]	300 300	200 300	3 3	12.5 12.5	3.2 3.2	5000 5000	700 700	3500 3500						MT-8	17	8 PIN OCTAL	8N	6AB7
6AC5GT	TRIODE	6.3	0.4	HEATER	CLASS B AMPLIFIER	250		0	5[F]	Current and Output for 2 Tubes				10,000	8	Load is Plate-To-Plate			T-9	35	6 PIN OCTAL	6Q	6AC5GT
6AC6GT	DOUBLE TRIODE	6.3	1.1	HEATER	DIRECT-COUPLED AMPLIFIER	180 180		0 0	7 45		3000	18	54	4000	3.8				T-9	35	7 PIN OCTAL	7AU	6AC6GT
6AD5G	TRIODE	6.3	0.3	HEATER	CLASS A AMPLIFIER	250		2	0.9		1500	66	100						ST-12	69	6 PIN OCTAL	6Q	6AD5G
6AD6G	TRIODE INDICATOR	6.3	0.15	HEATER	TUNING INDICATOR	Each Target: 100 V. 1.5 Ma. Each Target: 100 V. 1 Ma.							Shadow Angle: 0° @ +45 V. Shadow Angle: 90° @ 0 V.						T-9	27	7 PIN OCTAL	7AG	6AD6G

[F] Zero signal. [V] With fixed screen supply. [W] With series screen resistor.

6AE5GT-6AU4GT

TYPE	DESCRIPTION	FILAMENT VOLTS	FILAMENT AMPERES	TYPE OF CATHODE	APPLICATION	TYPICAL OPERATING CONDITIONS AND CHARACTERISTICS: PLATE VOLTS	SCREEN GRID VOLTS	CONTROL GRID VOLTS (NEG.)	PLATE CURRENT MA.	SCREEN CURRENT MA.	TRANS-CONDUCTANCE MICROMHOS	PLATE RESISTANCE MEGOHMS	AMPLIFICATION FACTOR	LOAD RESISTANCE OHMS	POWER OUTPUT WATTS	RECTIFIER CONDENSER INPUT: MAX. A.C. RMS VOLTS PER PLATE	RECTIFIER CONDENSER INPUT: MAX. PEAK INVERSE VOLTS	RECTIFIER CONDENSER INPUT: MAX. D.C. OUTPUT MA.	BULB: STYLE	BULB: OUTLINE NO.	BASE: STYLE	BASE: BASING	TYPE
6AE5GT	TRIODE	6.3	0.3	HEATER	CLASS A AMPLIFIER	95		15	7		1200	3.5	4.2						T-9	35	6 PIN OCTAL	6Q	**6AE5GT**
6AE6G	DOUBLE TRIODE	6.3	0.15	HEATER	CONTROL TUBE	250 250		1.5 1.5	6.5 4.5		1000 950	25 35	25 33	Remote Cutoff Sharp Cutoff					ST-12	69	7 PIN OCTAL	7AH	**6AE6G**
6AE7GT	DOUBLE TRIODE	6.3	0.5	HEATER	CLASS A AMPLIFIER	250		13.5	5		1500	9.3	14						T-9	35	8 PIN OCTAL	7AX	**6AE7GT**
6AF5G	TRIODE	6.3	0.3	HEATER	CLASS A AMPLIFIER	180		18	7		1500	4.9	7.4						ST-12	69	6 PIN OCTAL	6Q	**6AF5G**
6AH5G	BEAM PENTODE	6.3	0.9	HEATER	CLASS A AMPLIFIER	350	250	18	54	2.5	5200	33		4200	10.8				ST-16	86	6 PIN OCTAL	6AP	**6AH5G**
6AJ4	TRIODE	6.3	0.225	HEATER	GROUNDED GRID AMPLIFIER	125			16		10,000	4.2	42	Cut-off: I_b of 10μa = −9 V.					T-6½	7	MIN. 9 PIN	9BX	**6AJ4**
6AJ7	PENTODE	6.3	0.45	HEATER	CLASS A AMPLIFIER	300	300		10	2.5	9000	1000							MT-8G	17	8 PIN OCTAL	8N	**6AJ7**
6AK7	PENTODE	6.3	0.65	HEATER	CLASS A AMPLIFIER	300	150	3	30	7	11,000	130		10,000	3				MT-8B	20	8 PIN OCTAL	8Y	**6AK7**
6AL6G	BEAM PENTODE	6.3	0.9	HEATER	CLASS A AMPLIFIER	350 250	250 250	18 14	54[F] 72[F]	2.5[F] 5[F]	5200 6000	33 22.5		4200 2500	10.8 6.5	Signal: 12.7 V. RMS Signal: 10 V. RMS			ST-16	86	7 PIN OCTAL	6AM	**6AL6G**
6AL7GT	TRIODE INDICATOR	6.3	0.15	HEATER	TUNING INDICATOR	365 Max.													T-9	29	8 PIN OCTAL	8CH	**6AL7GT**
6AM8	DIODE PENTODE	6.3	0.45*	HEATER	VIDEO DETECTOR	125	125	BD	12.5	3.2	7800	300							T-6½	8	MIN. 9 PIN	9CY	**6AM8**
6AN6	QUADRUPLE DIODE	6.3	0.2	HEATER	HALF-WAVE RECTIFIER	Peak Plate Current per Plate: 45 Ma. Tube Voltage Drop per Plate @ 6.6 Ma.: 9 V.										75	210	8	T-5½	4	MIN. 7 PIN	7BJ	**6AN6**
6AQ7GT	DOUBLE-DIODE TRIODE	6.3	0.3	HEATER	CLASS A AMPLIFIER	250		2	2.3		1600	44	70						T-9	35	8 PIN OCTAL	8CK	**6AQ7GT**
6AU4GT	DIODE	6.3	1.8	HEATER	DAMPER SERVICE	Tube Voltage Drop at 350 Ma. Each Plate: 25 V. Maximum Steady State Peak Plate Current: 1050 Ma.											4500	175	T-9	46	6 PIN OCTAL	4CG	**6AU4GT**

* Heater warm-up time: 11 seconds.

[F] Zero signal.

[BD] Bias obtained thru 56 ohm cathode resistor.

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6AV5GT-6BA5

TYPE	DESCRIPTION	FILAMENT VOLTS	FILAMENT AMPERES	TYPE OF CATHODE	APPLICATION	PLATE VOLTS	SCREEN GRID VOLTS	CONTROL GRID VOLTS (NEG.)	PLATE CURRENT MA.	SCREEN CURRENT MA.	TRANS-CONDUCTANCE MICROMHOS	PLATE RESISTANCE MEGOHMS	AMPLIFICATION FACTOR	LOAD RESISTANCE OHMS	POWER OUTPUT WATTS	RECTIFIER CONDENSER INPUT: MAX. A.C. PLATE VOLTS PER PLATE	RECTIFIER CONDENSER INPUT: MAX. PEAK INVERSE VOLTS	RECTIFIER CONDENSER INPUT: MAX. D.C. OUTPUT MA.	BULB STYLE	BULB OUTLINE NO.	BASE STYLE	BASE BASING	TYPE
6AV5GT	BEAM PENTODE	6.3	1.2	HEATER	CLASS A AMP.	250	150	22.5	45	2.1	5500		4.5[BH]	Peak Plate Current: 155 ma.					T-9	31	6 PIN OCTAL	6CK	**6AV5GT**
					HORIZONTAL DEFLECTION AMPLIFIER FOR 8AP4	200	125	[BI]	66	12				Peak Neg. Surge Grid 1 Voltage: −100 V. Grid 1 Current: 58 μa. High Voltage Developed: 7 kv. Sweep Angle: 54 Degrees									
						Peak Pos. Surge Plate Voltage: 2000 V. Cathode Bias Resistor: 0 ohms																	
6AW7GT	DOUBLE DIODE TRIODE	6.3	0.3	HEATER	CLASS A AMPLIFIER	100		0	1.4		1200		80						T-9	53	8 PIN OCTAL	8CQ	**6AW7GT**
6AW8	TRIODE PENTODE	6.3	0.6*	HEATER	CLASS A [D] AMPLIFIER E	200 200	150	2 [A]	4.0 13	3.5	4000 9000	17.5 400	70	Cut-off: 10 μa @ −5 V. Cut-off: 10 μa @ −10 V.					T-6½	9	MIN. 9 PIN	9DX	**6AW8**
6AX6G	DOUBLE DIODE	6.3	2.5	HEATER	FULL-WAVE RECTIFIER	Tube Voltage Drop at 250 Ma. Each Plate: 21 V. Max. Steady State Peak Plate Current Each Plate: 600 Ma. Max. Steady State DC Output Current Each Plate: 125 Ma.										350 350	1250 2000		ST-14	77	7 PIN OCTAL	7Q	**6AX6G**
6AX8	TRIODE PENTODE	6.3	0.45	HEATER	VIDEO [D] AMPLIFIER E	150 250	110	[K]	18 10	3.5	8500 4800	5 400	40	Cut-off: 10 μa @ −12 V.					T-6½	8	MIN. 9 PIN	9AE	**6AX8**
6B4G	TRIODE	6.3	1	FIL.	CLASS A AMPLIFIER	250		45	60		5250	0.8	4.2	2500	3.2	Grid bias measured from filament center			ST-16	82	8 PIN OCTAL	5S	**6B4G**
					CLASS AB AMPLIFIER	325		68	80[F]		Current and output for 2 tubes			3000	15	Load is plate-to-plate							
6B5	DIRECT COUPLED TRIODES	6.3	0.8	HEATER	CLASS A AMPLIFIER	300	300[AB]	0	45	8[AB]	2400	24		7000	4	Signal: 15 V. RMS			ST-14	78	MED. 6 PIN	6AS	**6B5**
6B6G	DOUBLE DIODE TRIODE	6.3	0.3	HEATER	CLASS A AMPLIFIER	250		2	0.9		1100	91	100						ST-12	71	7 PIN OCTAL	7V	**6B6G**
6B8	DOUBLE-DIODE PENTODE	6.3	0.3	HEATER	CLASS A. AMPLIFIER	SAME CHARACTERISTICS AS TYPE 6B8GT													MT-8A	18	8 PIN OCTAL	8E	**6B8**
6B8G	DOUBLE-DIODE PENTODE	6.3	0.3	HEATER	CLASS A AMPLIFIER	250	125	3	9	2.3	1125	600		Cut-off: 1000 μmhos @ −17 V.					ST-12	71	8 PIN OCTAL	8E	**6B8G**
6B8GT	DOUBLE-DIODE PENTODE	6.3	0.3	HEATER	CLASS A AMPLIFIER	250	125	3	10	2.3	1325	600		Cut-off: 1325 μmhos @ −21 V.					T-9	39	8 PIN OCTAL	8E	**6B8GT**
6BA5	PENTODE	6.3	0.15	HEATER	CLASS A AMPLIFIER	100	100		4.8	1.25	3300	150		Cutoff: 10 μa @ −90 V.					T-3	1	SUB. MIN. 5 PIN		**6BA5**

* Heater warm-up time: 11 seconds.
[D] Triode unit.
[E] Pentode unit.
[BI] Grid #1 resistor = 0.22 meg.
[AB] Input section.
[A] Bias obtained thru 180 ohm cathode resistor.
[K] Bias obtained thru 120 ohm cathode resistor.

TUNG-SOL ELECTRIC INC., ELECTRON TUBE DIVISION, BLOOMFIELD, NEW JERSEY, U.S.A., APRIL 1, 1962 PLATE #6935

6BD5GT-6C5GT

TYPE	DESCRIPTION	FILAMENT VOLTS	FILAMENT AMPERES	TYPE OF CATHODE	APPLICATION	TYPICAL OPERATING CONDITIONS AND CHARACTERISTICS	BULB STYLE	BULB OUTLINE NO.	BASE STYLE	BASE BASING	TYPE
6BD5GT	BEAM PENTODE	6.3	0.9	HEATER	HORIZONTAL DEFLECTION AMPLIFIER	Plate Volts: 200; Screen Grid Volts: 200; Control Grid Volts (Neg.): 12; Screen Current Ma.: 5000; Peak Neg. Surge Grid 1 Voltage: −200 V.; Plate and Grid 2 Supply Voltage DC: 310 V.; DC Cathode Current: 90 ma.; Peak Pos. Surg. Plate Voltage (approx.): 2500 V.	T-9	45	6 PIN OCTAL	6CK	**6BD5GT**
6BE8	TRIODE PENTODE	6.3	0.45	HEATER	CLASS A AMPLIFIER M N	Plate Volts: 150 / 250; Screen Grid Volts: 110; Control Grid Volts (Neg.): L / AU; Plate Current Ma.: 18 / 10; Screen Current Ma.: 3.5; Transconductance µmhos: 8500 / 5200; Plate Resistance Megohms: 5.0 / 400; Amplification Factor: 40; Cut-off: 10 µamp. @ −12 V. Cut-off: 10 µamp. @ −10 V.	T-6½	8	MIN. 9 PIN	9EG	**6BE8**
6BE8A	TRIODE PENTODE	6.3	0.45*	HEATER	CLASS A AMPLIFIER M N	Plate Volts: 150 / 250; Screen Grid Volts: 110; Control Grid Volts (Neg.): L / AU; Plate Current Ma.: 18 / 10; Screen Current Ma.: 3.5; Transconductance µmhos: 8500 / 5200; Plate Resistance Megohms: 5 / 400; Amplification Factor: 40; Cut-off: 10 µa @ −12 V. Cut-off: 10 µa @ −10 V.	T-6½	8	MIN. 9 PIN	9EG	**6BE8A**
6BK7	TWIN TRIODE	6.3	0.45	HEATER	CLASS A AMPLIFIER	Plate Volts: 150; Plate Current Ma.: 18; Transconductance µmhos: 8500; Plate Resistance Megohms: 4.7; Amplification Factor: 40	T-6½	8	MIN. 9 PIN	9AJ	**6BK7**
6BL4	DIODE	6.3	3.0	HEATER	HALF WAVE RECTIFIER	Max. DC Plate Current: 200 Ma.; Max. Peak Plate Current: 1200 Ma.; Max. Plate Dissipation: 8.0 watts; Max. Peak Inverse Volts: 4500	T-12	63	OCTAL 8 PIN	8GB	**6BL4**
6BL7GT	DOUBLE TRIODE	6.3	1.5	HEATER	CLASS A AMPLIFIER	Plate Volts: 250; Control Grid Volts (Neg.): 9; Plate Current Ma.: 40; Transconductance µmhos: 7000; Plate Resistance Megohms: 2.15; Amplification Factor: 15; Cut-off: 50 µa @ −25 V.	T-9	35	8 PIN OCTAL	8BD	**6BL7GT**
6BN7	DOUBLE TRIODE	6.3	0.75	HEATER	CLASS A AMPLIFIER	Plate Volts: 120 / 250; Control Grid Volts (Neg.): 1 / 15; Plate Current Ma.: 5 / 24; Transconductance µmhos: 2000 / 5500; Plate Resistance Megohms: 14 / 2.2; Amplification Factor: 28 / 12; Cutoff: 100 µamp @ −7 V. Cutoff: 100 µamp @ −35 V.	T-6½	9	MIN. 9 PIN	9AJ	**6BN7**
6BQ6GA	PENTODE	6.3	1.2	HEATER	HORIZONTAL DEFLECTION AMPLIFIER	Plate Volts: 250; Screen Grid Volts: 150; Control Grid Volts (Neg.): 22.5; Plate Current Ma.: 55; Screen Current Ma.: 2.1; Transconductance µmhos: 5500; Plate Resistance Megohms: 20; Cut-off: 1.0 Ma. @ −46 V.	T-11	56	OCTAL 7 PIN	6AM	**6BQ6GA**
6BT8	TWIN DIODE PENTODE	6.3	0.45	HEATER	CLASS A AMPLIFIER	Plate Volts: 200; Screen Grid Volts: 150; Control Grid Volts (Neg.): A; Plate Current Ma.: 9.5; Screen Current Ma.: 2.8; Transconductance µmhos: 6200; Plate Resistance Megohms: 300; Cut-off: 10 µamp. @ −8 V.	T-6½	8	MIN. 9 PIN	9FE	**6BT8**
6BY5G	DOUBLE DIODE	6.3	1.6	HEATER	FULL WAVE RECTIFIER	Tube Voltage Drop @ 175 Ma. Each Plate: 32 V.; Max. A.C. RMS Volts Per Plate: 380; Max. Peak Inverse Volts: 1400; Max. D.C. Output Ma.: 175	ST-14	77	7 PIN OCTAL	6CN	**6BY5G**
6BY5GA	DOUBLE DIODE	6.3	1.6	HEATER	FULL WAVE RECTIFIER	Tube Voltage Drop @ 175 Ma. each plate: 32 V.; Max. A.C. RMS Volts Per Plate: 380; Max. Peak Inverse Volts: 1400; Max. D.C. Output Ma.: 175	T-12	60	OCTAL 7 PIN	6CN	**6BY5GA**
6C5	TRIODE	6.3	0.3	HEATER	CLASS A AMPLIFIER	Plate Volts: 250; Control Grid Volts (Neg.): 8; Plate Current Ma.: 8; Transconductance µmhos: 2000; Plate Resistance Megohms: 10; Amplification Factor: 20	MT-8A	16	6 PIN OCTAL	6Q	**6C5**
6C5G	TRIODE	6.3	0.3	HEATER	CLASS A AMPLIFIER	SAME CHARACTERISTICS AS TYPE 6C5	ST-12		6 PIN OCTAL	6Q	**6C5G**
6C5GT	TRIODE	6.3	0.3	HEATER	CLASS A AMPLIFIER	SAME CHARACTERISTICS AS TYPE 6C5	T-9	32	6 PIN OCTAL	6Q	**6C5GT**

* Heater warm-up time: 11 seconds.
M Triode section.
N Pentode section.
L Bias obtained thru 56 ohm cathode resistor.
A −8 volts @ I_b = 10 µA.
AU Bias obtained thru 68 ohm cathode resistor.

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6C6-6D8G

TYPE	DESCRIPTION	FILAMENT VOLTS	FILAMENT AMPERES	TYPE OF CATHODE	APPLICATION	PLATE VOLTS	SCREEN GRID VOLTS	CONTROL GRID VOLTS (NEG.)	PLATE CURRENT M.A.	SCREEN CURRENT M.A.	TRANSCONDUCTANCE MICROMHOS	PLATE RESISTANCE MEGOHMS	AMPLIFICATION FACTOR	LOAD RESISTANCE OHMS	POWER OUTPUT WATTS	RECTIFIER CONDENSER INPUT: MAX. A.C. PLATE VOLTS PER PLATE	RECTIFIER CONDENSER INPUT: MAX. PEAK INVERSE VOLTS	RECTIFIER CONDENSER INPUT: MAX. D.C. OUTPUT MA.	BULB STYLE	BULB OUTLINE NO.	BASE STYLE	BASE BASING	TYPE
6C6	PENTODE	6.3	0.3	HEATER	CLASS A AMPLIFIER	250 100	100 100	3 3	2 2	0.5 0.5	1225 1185	1000 1000 MIN.			Cut-off: at −7 V.				ST-12C	76	SMALL 6 PIN	6F	**6C6**
					BIAS DETECTOR	Plate: 250 V. thru 0.5 Meg. Screen: 100 V. Cathode res. 10,000 ohms Plate: 100 V. thru 1 Meg. Screen: 100 V. thru 2 Megs. Cathode res. 25,000 ohms.																	
6C7	DOUBLE DIODE TRIODE	6.3	0.3	HEATER	CLASS A AMPLIFIER	250		9	4.5		1250	16	20						ST-12C	75	SMALL 7 PIN	7G	**6C7**
6C8G	DOUBLE TRIODE	6.3	0.3	HEATER	CLASS A AMPLIFIER	250		4.5	3.2		1600	22.5	36		Single section				ST-12	71	8 PIN OCTAL	8G	**6C8G**
6CA5	PENTODE	6.3	1.2	HEATER	CLASS A AMPLIFIER	125 110	125 110	4.5 4.0	37[F] 32[F]	4.0[F] 3.5[F]	9200 8100	15 16		4500 3500	1.5 1.1				T-5½	9	MIN. 7 PIN	7CV	**6CA5**
6CD6G	BEAM PENTODE	6.3	2.5	HEATER	HORIZONTAL DEFLECTION AMPLIFIER FOR TV RECEIVERS	DC Plate Supply Voltage: From DC Power Supply: 350 V. From DC Boost Supplied by 6W4GT: 150 V. Total Supply Voltage: 500 V. Grid 2 Voltage: 170 V. Cathode Bias Resistor: 300 ohms Peak Positive-Pulse Plate Output Voltage approx. for Kinescope Anode Current of 0 μa: 5500 V.								Grid 1 Input Voltage: Peak-to-Peak Sawtooth Component: 75 V. Neg. Peaking Component: 55 V. Max. Grid 1 Circuit Resistance: 1 Meg. DC Plate Current: 92 ma. DC Grid 2 Current: 15 ma.				ST-16	83	6 PIN OCTAL	5BT	**6CD6G**
6CG8	TRIODE PENTODE	6.3	0.45	HEATER	CONVERTER D E	100 250	150	P	8.5 7.7	1.6	5800 4600	6.9 750	40	Cut-off: 10 μamp. @ −10 V. Cut-off: 10 μamp. @ −10 V.					T-6½	8	MIN. 9 PIN	9FA	**6CG8**
6CL5	PENTODE	6.3	2.5	HEATER	HORIZONTAL DEFLECTION AMPLIFIER	Pentode Operation With E_b = 175 V., E_{c2} = 175 V., E_{c1} ≐ −40 V.			90	7.0	6500	6.0							T-12	62	SHORT MED. 8 PIN	8GD	**6CL5**
6CR8	TRIODE PENTODE	6.3	0.45*	HEATER	CLASS A AMPLIFIER D E	125 125	125	2 0	12 13	3	4000 7700	5.5 300	22	Cut-off: 10 μamp. @ −13 V. Cut-off: 20 μamp. @ −6 V.					T-6½	8	MIN. 9 PIN	9GJ	**6CR8**
6D6	PENTODE	6.3	0.3	HEATER	CLASS A AMPLIFIER	250 100	100 100	3 3	8.2 8	2 2.2	1600 1500	800 250		Cut-off: 2 μmhos at −50 V. Cut-off: 2 μmhos at −50 V.					ST-12C	76	SMALL 6 PIN	6F	**6D6**
6D7	PENTODE	6.3	0.3	HEATER	CLASS A AMPLIFIER	250	100	3	2	0.5	1225								ST-12C	75	SMALL 7 PIN	7H	**6D7**
6D8G	HEPTODE	6.3	0.15	HEATER	CONVERTER	250	100	3	3.5	2.6	550	400							ST-12	71	8 PIN OCTAL	8A	**6D8G**

* Heater warm-up time: 11 seconds. [F] Zero signal. [D] Triode unit. [E] Pentode unit. [P] Bias obtained thru 100 ohm cathode resistor.

TYPE	DESCRIPTION	FILAMENT VOLTS	FILAMENT AMPERES	TYPE OF CATHODE	APPLICATION	TYPICAL OPERATING CONDITIONS AND CHARACTERISTICS: PLATE VOLTS	SCREEN GRID VOLTS	CONTROL GRID VOLTS (NEG.)	PLATE CURRENT MA.	SCREEN CURRENT MA.	TRANS CONDUCTANCE MICROMHOS	PLATE RESISTANCE KILOHMS	AMPLIFICATION FACTOR	LOAD RESISTANCE OHMS	POWER OUTPUT WATTS	RECTIFIER CONDENSER INPUT: MAX. A.C. RMS VOLTS PER PLATE	RECTIFIER CONDENSER INPUT: MAX. PEAK INVERSE VOLTS	RECTIFIER CONDENSER INPUT: MAX. D.C. OUTPUT MA.	BULB: STYLE	BULB: OUTLINE NO.	BASE: STYLE	BASE: BASING	BASE: TYPE
6DB5	BEAM PENTODE	6.3	1.2	HEATER	CLASS A AMPLIFIER	110 200	110 125	7.5 A	49[F] 46[F]	4[F] 2.2[F]	8000 8000	13 28							T-6½	10B	MIN. 9 PIN	9GR	**6DB5**
6DB6	PENTODE	6.3	0.3	HEATER	CLASS A AMPLIFIER	150	150	1	5.8	6.6	2050	50	Cut-off: 10 μa @ −6.5 V.						T-5½	4	MIN. 7 PIN	7CM	**6DB6**
6DN6	BEAM PENTODE	6.3	2.5	HEATER	HORIZONTAL DEFLECTION AMPLIFIER	Pentode Operation With E_b = 125 V., E_{c2} = 125 V., E_{c1} = −18 V.			70	6.3	9000	4.0							T-12	62	SHORT MED. 8 PIN	5BT	**6DN6**
6DQ6	BEAM PENTODE	6.3	1.2	HEATER	HORIZONTAL DEFLECTION AMPLIFIER	DC Grid #1 Voltage: −28 V. DC Grid #2 Voltage: 140 V. Peak Positive Plate Voltage: 3440 V. Grid #1 Input Voltage: Peak To Peak Sawtooth: 74 V. Negative Peaking: 18 V.							DC Plate Current: 83 Ma. DC Grid #2 Current: 12.3 Ma. Plate Dissipation: 5.1 Watts						T-12	56	SHORT MED. 7 PIN	6AM	**6DQ6**
6E6	DOUBLE TRIODE	6.3	0.6	HEATER	CLASS A AMPLIFIER	250		27.5	18		1700	35	6	14,000	1.6				ST-14	77	MED. 7 PIN	7B	**6E6**
6E7	PENTODE	6.3	0.3	HEATER	CLASS A AMPLIFIER	250	100	3	8.2	2	1600	800	1280	Cutoff: 2 μmhos @ −42.5 V.					ST-12C	75	SMALL 7 PIN	7H	**6E7**
6EF6	PENTODE	6.3	0.9	HEATER	VERTICAL DEFLECTION AMPLIFIER	250	250	18	50	2	5000		Cutoff: 1 Ma. at −40 V.						T-9	37	INT. OCTAL 7 PIN	7S	**6EF6**
6F5G	TRIODE	6.3	0.3	HEATER	CLASS A AMPLIFIER	250 100		2 1	0.9 0.4		1500 1150	66 85	100 100						ST-12	71	5 PIN OCTAL	5M	**6F5G**
6F5GT	TRIODE	6.3	0.3	HEATER	CLASS A AMPLIFIER	250 100		2 1	0.9 0.4		1500 1150	66 85	100 100						T-9	33	5 PIN OCTAL	5M	**6F5GT**
6F7	TRIODE PENTODE	6.3	0.3	HEATER	TRIODE UNIT AS CLASS A AMPLIFIER PENTODE UNIT AS CLASS A AMPLIFIER	100 250	 100	3[F] 3	3.5 6.5	 1.5	500 1100	16 850	8 900	Cutoff: 10 μmhos at −35 V.					ST-12	72	SMALL 7 PIN	7E	**6F7**
6F8G	DOUBLE TRIODE	6.3	0.6	HEATER	CLASS A AMPLIFIER	250		8	9		2600	7.7	20	Each section					ST-12	71	8 PIN OCTAL	8G	**6F8G**
6G6G	PENTODE	6.3	0.15	HEATER	CLASS A AMPLIFIER	180	180	9	15[F]	2.5[F]	2300	175	400	10 000	1.1	Signal: 6.4 V. RMS			ST-12	69	7 PIN OCTAL	7S	**6G6G**

[F] Zero signal.

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TYPE	DESCRIPTION	FILAMENT VOLTS	FILAMENT AMPERES	TYPE OF CATHODE	APPLICATION	PLATE VOLTS	SCREEN GRID VOLTS	CONTROL GRID VOLTS (NEG.)	PLATE CURRENT M.A.	SCREEN CURRENT M.A.	TRANSCONDUCTANCE MICROMHOS	PLATE RESISTANCE MEGOHMS	AMPLIFICATION FACTOR	LOAD RESISTANCE OHMS	POWER OUTPUT WATTS	RECTIFIER CONDENSER INPUT: MAX. A.C. RMS VOLTS PER PLATE	RECTIFIER CONDENSER INPUT: MAX. PEAK INVERSE VOLTS	RECTIFIER CONDENSER INPUT: MAX. D.C. OUTPUT MA.	BULB: STYLE	BULB: OUTLINE NO.	BASE: STYLE	BASE: BASING	BASE: TYPE
6G6GT	PENTODE	6.3	0.15	HEATER	CLASS A AMPLIFIER	180	180	9	15[F]	2.5[F]	2300	175	400	10,000	1.1	Signal: 6.4 V. RMS			T-9	35	7 PIN OCTAL	7S	6G6GT
6J7	PENTODE	6.3	0.3	HEATER	CLASS A AMPLIFIER BIAS DETECTOR	SAME CHARACTERISTICS AS TYPE 6J7GT													MT-8A	18	7 PIN OCTAL	7R	6J7
6J7G	PENTODE	6.3	0.3	HEATER	CLASS A AMPLIFIER BIAS DETECTOR	SAME CHARACTERISTICS AS TYPE 6J7GT													ST-12	71	7 PIN OCTAL	7R	6J7G
6J7GT	PENTODE	6.3	0.3	HEATER	CLASS A AMPLIFIER	250	100	3	2	0.5	1225	1000[Z]	Cutoff: at −7 V.						T-9	34	7 PIN OCTAL	7R	6J7GT
					BIAS DETECTOR	Plate: 250 V. thru 0.5 Meg. Plate: 100 V. thru 1 Meg.				Screen: 100 V. Screen: 100 V. thru 2 Megs.			Cathode res. 10 000 ohms Cathode res. 25 000 ohms									
6J8G	TRIODE HEPTODE	6.3	0.3	HEATER	CONVERTER	250	100	3	1.3	3.5	290	2500							ST-12	71	8 PIN OCTAL	8H	6J8G
6K5G	TRIODE	6.3	0.3	HEATER	CLASS A AMPLIFIER	250 100		3 1.5	1.1 0.35		1400 900	50 78	70 70						T-9	33	7 PIN OCTAL	5U	6K5G
6K7	PENTODE	6.3	0.3	HEATER	CLASS A AMPLIFIER	250 100	125 100	3 1	10.5 9.5	2.6 2.7	1650 1650	600 150	Cutoff: 2 μmhos @ −52 V. Cutoff: 2 μmhos @ −38 V.						MT-8A	18	7 PIN OCTAL	7R	6K7
6K7G	PENTODE	6.3	0.3	HEATER	CLASS A AMPLIFIER	250 100	125 100	3 1	10.5 9.5	2.6 2.7	1650 1650	600 150	Cutoff: 2 μmhos @ −52 V. Cutoff: 2 μmhos @ −38 V.						ST-12	71	7 PIN OCTAL	7R	6K7G
6K8	TRIODE HEXODE	6.3	0.3	HEATER	CONVERTER	SAME CHARACTERISTICS AS TYPE 6K8GT													MT-8G	19	8 PIN OCTAL	8K	6K8
6K8G	TRIODE HEXODE	6.3	0.3	HEATER	CONVERTER	SAME CHARACTERISTICS AS TYPE 6K8GT													ST-12	71	8 PIN OCTAL	8K	6K8G
6K8GT	TRIODE HEXODE	6.3	0.3	HEATER	CONVERTER	250 100	100 100	3 3	2.5 2.3	6 6.2	350 325	600 400	Triode plate: 100 V., 3.8 ma. Triode grid: 50 000 ohms, 0.15 ma.						T-9	42	8 PIN OCTAL	8K	6K8GT
6L5G	TRIODE	6.3	0.15	HEATER	CLASS A AMPLIFIER	250		9	8		1900	9	17						ST-12	69	6 PIN OCTAL	6Q	6L5G
6L7G	HEPTODE	6.3	0.3	HEATER	CLASS A AMPLIFIER	250	100	3	5.3	6.5	1100	600	670						ST-12	71	7 PIN OCTAL	7T	6L7G
6N4	TRIODE	6.3	0.2	HEATER	UHF AMPLIFIER	180		3.5	12		6000	5.4	32						T-5½	3	MIN. 7 PIN	7CA	6N4

[F] Zero signal. [Z] Minimum value.

TYPE	DESCRIPTION	FILAMENT VOLTS	FILAMENT AMPERES	TYPE OF CATHODE	APPLICATION	TYPICAL OPERATING CONDITIONS AND CHARACTERISTICS: PLATE VOLTS	SCREEN GRID VOLTS	CONTROL GRID VOLTS (NEG.)	PLATE CURRENT M.A.	SCREEN CURRENT M.A.	TRANS. CONDUCTANCE μMHOS	PLATE RESISTANCE MEGOHMS	AMPLIFICATION FACTOR	LOAD RESISTANCE OHMS	POWER OUTPUT WATTS	RECTIFIER CONDENSER INPUT: MAX. A.C. RMS VOLTS PER PLATE	RECTIFIER CONDENSER INPUT: MAX. PEAK INVERSE VOLTS	RECTIFIER CONDENSER INPUT: MAX. D.C. OUTPUT MA.	BULB: STYLE	BULB: OUTLINE NO.	BASE: STYLE	BASE: BASING	TYPE
6P5GT	TRIODE	6.3	0.3	HEATER	CLASS A AMPLIFIER	250		13.5	5		1450	9.5	13.8						T-9	35	6 PIN OCTAL	6Q	**6P5GT**
6P7G	TRIODE PENTODE	6.3	0.3	HEATER	CLASS A AMPLIFIER	250 100	100	3 3	6.5 3.5	1.5	1100 450		900 8						ST-12	71	8 PIN OCTAL	7U	**6P7G**
6Q6G	DIODE TRIODE	6.3	0.15	HEATER	CLASS A AMPLIFIER	250 135		3 1.5	1.2 0.9		1050 1000		65 65						ST-12	71	8 PIN OCTAL	6Y	**6Q6G**
6Q7	DOUBLE DIODE TRIODE	6.3	0.3	HEATER	CLASS A AMPLIFIER	SAME CHARACTERISTICS AS TYPE 6Q7GT													MT-8A	18	7 PIN OCTAL	7V	**6Q7**
6Q7G	DOUBLE DIODE TRIODE	6.3	0.3	HEATER	CLASS A AMPLIFIER	SAME CHARACTERISTICS AS TYPE 6Q7GT													ST-12	71	7 PIN OCTAL	7V	**6Q7G**
6Q7GT	DOUBLE DIODE TRIODE	6.3	0.3	HEATER	CLASS A AMPLIFIER	250 100		3 1.5	1.0 0.8		1200 1200	58 58	70 70						T-9	34	7 PIN OCTAL	7V	**6Q7GT**
6R6G	PENTODE	6.3	0.3	HEATER	CLASS A AMPLIFIER	250	100	3	7	1.7	1450		1160						ST-12	71	7 PIN OCTAL	6AW	**6R6G**
6R7	DOUBLE DIODE TRIODE	6.3	0.3	HEATER	CLASS A AMPLIFIER	SAME CHARACTERISTICS AS TYPE 6R7GT													MT-8A	18	7 PIN OCTAL	7V	**6R7**
6R7G	DOUBLE DIODE TRIODE	6.3	0.3	HEATER	CLASS A AMPLIFIER	250		9	9.5		1900	8.5	16						ST-12	71	7 PIN OCTAL	7V	**6R7G**
6R7GT	DOUBLE DIODE TRIODE	6.3	0.3	HEATER	CLASS A AMPLIFIER	250		9	9.5		1900	8.5	16						T-9	33	7 PIN OCTAL	7V	**6R7GT**
6R8	TRIPLE DIODE TRIODE	6.3	0.3	HEATER	CLASS A AMPLIFIER	250		9	9.5		1900	8.5	16	10 000	0.3				T-6½	8	MIN. 9 PIN	9E	**6R8**
6S4	TRIODE	6.3	0.6	HEATER	VERTICAL DEFLECTION AMPLIFIER IN TV RECEIVERS	DC Plate Voltage: 500 Max. Cathode-Bias Resistor: 820 ohms Grid Input Voltage (approx.): Peak-to-Peak Sawtooth Component: 60 V. Negative Peaking Component: 48 V. DC Plate Current: 18 ma.								Plate Output (approx.): Peak-to-Peak Sawtooth Component: 350 V. Peak Positive-Pulse Component: 800 V. Min. Cathode-Bias Resistance: 220 ohms Max. Grid Circuit Resistance: 2.2 meg.					T-6½	9	MIN. 9 PIN	9AC	**6S4**
6S7	PENTODE	6.3	0.15	HEATER	CLASS A AMPLIFIER	250	100	3	8.5	2	1750	1000	Cutoff: 10 μmhos @ −38.5 V.						MT-8G	19	7 PIN OCTAL	7R	**6S7**

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6S7G-6SN7GTA

TYPE	DESCRIPTION	FILAMENT VOLTS	FILAMENT AMPERES	TYPE OF CATHODE	APPLICATION	PLATE VOLTS	SCREEN GRID VOLTS	CONTROL GRID VOLTS (NEG.)	PLATE CURRENT MA.	SCREEN CURRENT MA.	TRANS-CONDUCTANCE μMHOS	PLATE RESISTANCE MEGOHMS	AMPLIFICATION FACTOR	LOAD RESISTANCE OHMS	POWER OUTPUT WATTS	RECTIFIER CONDENSER INPUT: MAX. A.C. RMS VOLTS PER PLATE	RECTIFIER CONDENSER INPUT: MAX. PEAK INVERSE VOLTS	RECTIFIER CONDENSER INPUT: MAX. D.C. OUTPUT MA.	BULB STYLE	BULB OUTLINE NO.	BASE STYLE	BASE BASING	TYPE
6S7G	PENTODE	6.3	0.15	HEATER	CLASS A AMPLIFIER	250	100	3	8.5	2	1750	1000	Cutoff: 10 μmhos @ −38.5 V.						ST-12	71	7 PIN OCTAL	7R	**6S7G**
6S8GT	TRIPLE DIODE TRIODE	6.3	0.3	HEATER	CLASS A AMPLIFIER	250 100		2 1	0.9 0.4		1100 900	91 110	100 100						T-9	43	8 PIN OCTAL	8CB	**6S8GT**
6SA7GT	HEPTODE	6.3	0.3	HEATER	CONVERTER AD	250 100	100 100	2 2	3.5 3.5	8.5 8.5	450 425	1000 500	Eg_1: 0.5 ma. thru 20 000 ohms Eg_1: 0.5 ma. thru 20 000 ohms						T-9	35	8 PIN OCTAL	8AD	**6SA7GT**
6SB7Y	HEPTODE	6.3	0.3	HEATER	CONVERTER AD	250	100	1	3.8	10	950	Eg_1: 0.35 Ma. thru 20 000 ohms							MT-8	17	8 PIN OCTAL	8R	**6SB7Y**
6SC7GT	DOUBLE TRIODE	6.3	0.3	HEATER	CLASS A AMPLIFIER	250		2	2		1325	53	70						T-9	35	8 PIN OCTAL	8S	**6SC7GT**
6SD7GT	PENTODE	6.3	0.3	HEATER	CLASS A AMPLIFIER	250 100	125 100	2 2	9.5 5.7	3 2	4250 3350	700 250	Cutoff: 20 μmhos at −27 V.						T-9	32	8 PIN OCTAL	8N	**6SD7GT**
6SE7GT	PENTODE	6.3	0.3	HEATER	CLASS A AMPLIFIER	250	100	4.5	0.9		1500		100						T-9	32	8 PIN OCTAL	8N	**6SE7GT**
6SF7	DIODE PENTODE	6.3	0.3	HEATER	AMPLIFIER	250	100	1	12.4	3.3	2050	0.7	Cutoff: 10 μmhos at −35 V.						MT-8	17	8 PIN OCTAL	7AZ	**6SF7**
6SG7GT	PENTODE	6.3	0.3	HEATER	CLASS A AMPLIFIER	250	150	2.5	9.2	3.4	4000	1000	Cutoff: 40 μmhos @ −17.5 V.						T-9	32	8 PIN OCTAL	8BK	**6SG7GT**
6SH7GT	PENTODE	6.3	0.3	HEATER	RF AMPLIFIER	250 100	150 100	1 1	10.8 5.3	4.1 2.1	4900 4000	900 350							T-9	32	8 PIN OCTAL	8BK	**6SH7GT**
6SH7L	PENTODE	6.3	0.3	HEATER	RF AMPLIFIER	250 100	150 100	1 1	10.8 5.3	4.1 2.1	4900 4000	900 350							T-9	40	8 PIN OCTAL	8BK	**6SH7L**
6SJ7	PENTODE	6.3	0.3	HEATER	CLASS A AMPLIFIER	SAME CHARACTERISTICS AS TYPE 6SJ7GT													MT-8	17	8 PIN OCTAL	8N	**6SJ7**
6SJ7GT	PENTODE	6.3	0.3	HEATER	CLASS A AMPLIFIER	250 100	100 100	3 3	3 2.9	0.8 0.9	1650 1575	1000[z] 700	Cutoff: at −9 V.						T-9	32	8 PIN OCTAL	8N	**6SJ7GT**
6SN7GT	DOUBLE TRIODE	6.3	0.6	HEATER	CLASS A AMPLIFIER	250 90		8 0	9 10		2600 3000	7.7 6.7	20 20	Each Section					T-9	35	8 PIN OCTAL	8BD	**6SN7GT**
6SN7GTA	DOUBLE TRIODE	6.3	0.6	HEATER	CLASS A AMPLIFIER	250 90		8 0	9 10		2600 3000	7.7 6.7	20 20	Each Section					T-9	35	8 PIN OCTAL	8BD	**6SN7GTA**

[AD] Separate excitation. [z] Minimum value.

TYPE	DESCRIPTION	FILAMENT VOLTS	FILAMENT AMPERES	TYPE OF CATHODE	APPLICATION	TYPICAL OPERATING CONDITIONS AND CHARACTERISTICS: PLATE VOLTS	SCREEN GRID VOLTS	CONTROL GRID VOLTS (NEG.)	PLATE CURRENT MA.	SCREEN CURRENT MA.	TRANS-CONDUCTANCE μMHOS	PLATE RESISTANCE MEGOHMS	AMPLIFICATION FACTOR	LOAD RESISTANCE OHMS	POWER OUTPUT WATTS	RECTIFIER CONDENSER INPUT: MAX. A.C. RMS VOLTS PER PLATE	RECTIFIER CONDENSER INPUT: MAX. PEAK INVERSE VOLTS	RECTIFIER CONDENSER INPUT: MAX. D.C. OUTPUT MA.	BULB: STYLE	BULB: OUTLINE NO.	BASE: STYLE	BASE: BASING	BASE: TYPE
6SR7	DOUBLE DIODE TRIODE	6.3	0.3	HEATER	CLASS A AMPLIFIER	250		9	9.5		1900	8.5	16						MT-8	17	8 PIN OCTAL	8Q	**6SR7**
6SR7GT	DOUBLE DIODE TRIODE	6.3	0.3	HEATER	CLASS A AMPLIFIER	SAME CHARACTERISTICS AS TYPE 6SR7													T-9	35	8 PIN OCTAL	8Q	**6SR7GT**
6T4	TRIODE	6.3	0.225	HEATER	UHF TV OSCILLATOR	80			18	7000		13							T-5½	3	MIN. 7 PIN	7DK	**6T4**
6T8	TRIPLE DIODE TRIODE	6.3	0.45	HEATER	CLASS A AMPLIFIER	250 100		3 1	1 0.8		1200 1300	58 54	70 70	Average Diode Current with 5 V. DC Applied = 20 Ma.					T-6½	8	MIN. 9 PIN	9E	**6T8**
6U6GT	BEAM PENTODE	6.3	0.75	HEATER	CLASS A AMPLIFIER	200	135	14	55	3	6200	20		3000	5.5				T-9	35	7 PIN OCTAL	7AC	**6U6GT**
6SV7	DIODE PENTODE	6.3	0.3	HEATER	CLASS A AMPLIFIER	250	150	1	7.5	2.8	3600	1500							MT-8	17	8 PIN OCTAL	7AZ	**6SV7**
6SZ7	DOUBLE DIODE TRIODE	6.3	0.15	HEATER	CLASS A AMPLIFIER	250		3	1		1200	58	70						MT-8G	17	8 PIN OCTAL	8Q	**6SZ7**
6T5	TRIODE INDICATOR	6.3	0.3	HEATER	TUNING INDICATOR	Plate: 250 V. thru 1 Meg. 3 Ma. Eg: 0 for Min. Illumination								Target: 250 V. Max. Eg: 22 for Max. Illumination					T-9	51	SMALL 6 PIN	6R	**6T5**
6T7G	DOUBLE DIODE TRIODE	6.3	0.15	HEATER	CLASS A AMPLIFIER	250 135		3 1.5	1.2 0.9		1050 1000	62 65	65 65						ST-12	71	7 PIN OCTAL	7V	**6T7G**
6U4GT	DIODE	6.3	1.2	HEATER	HALF WAVE RECTIFIER	Tube Voltage Drop @ 250 Ma.: 21 V. DC Output Potential: 335 V.										350	1375	125	T-9	37	5 PIN OCTAL	4CG	**6U4GT**
6U7G	PENTODE	6.3	0.3	HEATER	CLASS A AMPLIFIER	250	100	3	8.2	2	1600	800	Cutoff: 2 μmhos @ −50 V.						ST-12C	75	7 PIN OCTAL	7R	**6U7G**
6V7G	DOUBLE DIODE TRIODE	6.3	0.3	HEATER	CLASS A AMPLIFIER	250 180 135		20 13.5 10.5	8 6 3.7		1100 975 750	7.5 8.5 11	8.3 8.3 8.3	20,000 20,000 25,000	0.35 0.16 0.075				ST-12	71	7 PIN OCTAL	7V	**6V7G**
6V8	TRIPLE DIODE TRIODE	6.3	0.45	HEATER	CLASS A AMPLIFIER	250 100		3 1	1.0 0.8		1200 1300	58 54	70 70						T-6½	8	MIN. 9 PIN	9AH	**6V8**
6W5G	DIODE	6.3	0.9	HEATER	FULL WAVE RECTIFIER											325	1250	90	ST-12	69	6 PIN OCTAL	6S	**6W5G**

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6W7G-7AJ7

TYPE	DESCRIPTION	FILAMENT VOLTS	FILAMENT AMPERES	TYPE OF CATHODE	APPLICATION	TYPICAL OPERATING CONDITIONS AND CHARACTERISTICS: PLATE VOLTS	SCREEN GRID VOLTS	CONTROL GRID VOLTS (NEG.)	PLATE CURRENT MA.	SCREEN CURRENT MA.	TRANS-CONDUCTANCE μMHOS	PLATE RESISTANCE MEGOHMS	AMPLIFICATION FACTOR	LOAD RESISTANCE OHMS	POWER OUTPUT WATTS	RECTIFIER CONDENSER INPUT: MAX. A.C. RMS VOLTS PER PLATE	RECTIFIER CONDENSER INPUT: MAX. PEAK INVERSE VOLTS	RECTIFIER CONDENSER INPUT: MAX. D.C. OUTPUT MA.	BULB: STYLE	BULB: OUTLINE NO.	BASE: STYLE	BASE: BASING	TYPE
6W7G	PENTODE	6.3	0.15	HEATER	CLASS A AMPLIFIER	250	100	3	2	0.5	1225	1500							ST-12	71	7 PIN OCTAL	7R	**6W7G**
6Y3G	DIODE	6.3	0.7	HEATER	HALF-WAVE RECTIFIER										5000			7.5	ST-12	71	8 PIN OCTAL	4AC	**6Y3G**
6Y5	DOUBLE DIODE	6.3	0.8	HEATER	FULL WAVE RECTIFIER										350	1250		50	ST-12	70	SMALL 6 PIN	6J	**6Y5**
6Y7G	DOUBLE TRIODE	6.3	0.6	HEATER	CLASS B AMPLIFIER	250 180		0 0	10.6[F] 7.6[F]	Current and Output for Both Sections				14,000 7000	8.0 5.5				ST-12	69	8 PIN OCTAL	8B	**6Y7G**
6Z7G	DOUBLE DIODE TRIODE	6.3	0.3	HEATER	CLASS B AMPLIFIER	180 135		0 0	8.4[F] 6[F]	Current and Output for Both Sections				12,000 9000	4.2 2.5				ST-12	69	8 PIN OCTAL	8B	**6Z7G**
6ZY5G	DOUBLE DIODE	6.3	0.3	HEATER	FULL-WAVE RECTIFIER	Peak Plate Current per Plate: 120 Ma.									450	1250		40	ST-12	69	6 PIN OCTAL	6S	**6ZY5G**
7A4	TRIODE	6.3	0.3	HEATER	CLASS A AMPLIFIER	250 90		8 0	9 10		2600 3000	7.7 6.7	20 20						T-9	26	8 PIN LOC.	5AC	**7A4**
7A5	BEAM PENTODE	6.3	0.75	HEATER	CLASS A AMPLIFIER	110	110	7.5	41[F]	3.0[F]	5800	16		2500	1.5				T-9	30	8 PIN LOC.	6AA	**7A5**
7A6	DOUBLE DIODE	6.3	0.15	HEATER	RECTIFIER	Single section									150			8	T-9	26	8 PIN LOC.	7AJ	**7A6**
7A7	PENTODE	6.3	0.3	HEATER	CLASS A AMPLIFIER	250 100	100 100	3 1	9.2 13	2.6 4	2000 2350	800 120	Cutoff: 10 μmhos @ −35 V.						T-9	26	8 PIN LOC.	8V	**7A7**
7AB7	PENTODE	6.3	0.15	HEATER	CLASS A AMPLIFIER	250	100	2	4	1.3	1800	500							T-9	26	7 PIN LOC.	8BO	**7AB7**
7AD7	PENTODE	6.3	0.6	HEATER	CLASS A AMPLIFIER	300	150	0	28	7	9500	300							T-9	37	8 PIN LOC.	8V	**7AD7**
7AF7	DOUBLE TRIODE	6.3	0.3	HEATER	CLASS A AMPLIFIER	250		10	9		2100	7.6	16						T-9	26	8 PIN LOC.	8AC	**7AF7**
7AG7	PENTODE	6.3	0.15	HEATER	CLASS A AMPLIFIER	250 100	250 100	[U]	6 1.6	2 0.5	4200 2600	750	Cut-off: 10 μamp. at −10 V.						T-9	26	8 PIN LOC.	8V	**7AG7**
7AH7	PENTODE	6.3	0.15	HEATER	REMOTE CUTOFF AMPLIFIER	250	250		6.8	1.9	3300	1000							T-9	32	8 PIN LOC.	8V	**7AH7**
7AJ7	PENTODE	6.3	0.3	HEATER	CLASS A AMPLIFIER	100 250	100 100	1 3	5.7 2.2	1.8 0.7	2275 1575	400 1000							T-9	26	8 PIN LOC.	8V	**7AJ7**

[F] Zero signal.

[U] Fixed bias not recommended, cathode bias: 250 ohms.

TUNG-SOL ELECTRIC INC., ELECTRON TUBE DIVISION, BLOOMFIELD, NEW JERSEY, U.S.A., APRIL 1, 1962 PLATE #6439

TUNG-SOL

TUBES NOT RECOMMENDED FOR NEW EQUIPMENT DESIGN

TYPE	DESCRIPTION	FILAMENT VOLTS	FILAMENT AMPERES	TYPE OF CATHODE	APPLICATION	TYPICAL OPERATING CONDITIONS AND CHARACTERISTICS: PLATE VOLTS	SCREEN GRID VOLTS	CONTROL GRID VOLTS (NEG.)	PLATE CURRENT M.A.	SCREEN CURRENT M.A.	TRANSCONDUCTANCE MICROMHOS	PLATE RESISTANCE MEGOHMS	AMPLIFICATION FACTOR	LOAD RESISTANCE OHMS	POWER OUTPUT WATTS	RECTIFIER CONDENSER INPUT: MAX. A.C. VOLTS PER PLATE	RECTIFIER CONDENSER INPUT: MAX. PEAK INVERSE VOLTS	RECTIFIER CONDENSER INPUT: MAX. D.C. OUTPUT M.A.	BULB: STYLE	BULB: OUTLINE NO.	BASE: STYLE	BASE: BASING	TYPE
7B4	TRIODE	6.3	0.3	HEATER	CLASS A AMPLIFIER	250		2	0.9		1500	66	100						T-9	26	8 PIN LOC.	5AC	**7B4**
7B5	PENTODE	6.3	0.4	HEATER	CLASS A AMPLIFIER	250 100	250 100	21 7	25.5 9	4.0 1.6	2100 1500	110 104		9000 12,000	4.5 0.35				T-9	30	8 PIN LOC.	6AE	**7B5**
7B6	DOUBLE DIODE TRIODE	6.3	0.3	HEATER	CLASS A AMPLIFIER	250 100		2 1	0.9 0.4		1100 900	91 110	100 100						T-9	26	8 PIN LOC.	8W	**7B6**
7B7	PENTODE	6.3	0.15	HEATER	CLASS A AMPLIFIER	250 100	100 100	3 3	8.5 8.2	1.7 1.8	1750 1675	750 300	Cut-off: 10 μmhos at −40 V.						T-9	26	8 PIN LOC.	8V	**7B7**
7B8	HEPTODE	6.3	0.3	HEATER	CONVERTER	250 100	100 50	3 1.5	3.5 1.1	2.7 1.3	550 360	360 600	Eg₂: 250 V. thru 20,000 ohms Eg₂: 100 V.						T-9	26	8 PIN LOC.	8X	**7B8**
7C6	DOUBLE DIODE TRIODE	6.3	0.15	HEATER	CLASS A AMPLIFIER	250 100		1 0	1.3 1.0		1000 850	100 100	100 85						T-9	26	8 PIN LOC.	8W	**7C6**
7E5	TRIODE	6.3	0.15	HEATER	CLASS A AMPLIFIER	180		3	5.5		3000	12	36						T-9	30	8 PIN LOC.	8BN	**7E5**
7E6	DOUBLE DIODE TRIODE	6.3	0.3	HEATER	CLASS A AMPLIFIER	250		9	9.5		1900	8.5	16						T-9	26	8 PIN LOC.	8W	**7E6**
7E7	DOUBLE DIODE PENTODE	6.3	0.3	HEATER	CLASS A AMPLIFIER	250	100	3	7.5	1.6	1300	700	Cut-off: 2 μmhos at −42.5 V.						T-9	26	8 PIN LOC.	8AE	**7E7**
7G7	PENTODE	6.3	0.45	HEATER	CLASS A AMPLIFIER	250	100	2	6	2	4500	800							T-9	26	8 PIN LOC.	8V	**7G7**
7G8	DOUBLE TETRODE	6.3	0.3	HEATER	CLASS A AMPLIFIER	250	100	2.5	4.5	0.8	2100	225	Cutoff: 10 μa @ −10 V. Each Section						T-9	24	8 PIN LOC.	8BV	**7G8**
7H7	PENTODE	6.3	0.3	HEATER	CLASS A AMPLIFIER	250 100	150 100	[A] 0	10 7	3.2 2.6	4000 4000	800 350	Cut-off: 35 μmhos at −19 V. Cut-off: 35 μmhos at −12 V.						T-9	26	8 PIN LOC.	8V	**7H7**
7J7	TRIODE HEXODE	6.3	0.3	HEATER	CONVERTER	250	100	3	1.4	2.8	290	1500							T-9	26	8 PIN LOC.	8BL	**7J7**
7K7	DOUBLE DIODE TRIODE	6.3	0.3	HEATER	CLASS A AMPLIFIER	250		2	2.3		1600	44	70						T-9	26	8 PIN LOC.	8BF	**7K7**
7L7	PENTODE	6.3	0.3	HEATER	CLASS A AMPLIFIER	250	100	1.5	4.5	1.5	3100	1000							T-9	26	8 PIN LOC.	8V	**7L7**
7Q7	HEPTODE	6.3	0.3	HEATER	CONVERTER	250 100	100 100	2 2	3.5 3.3	8.5 8.5	550 525	1000 500							T-9	26	8 PIN LOC.	8AL	**7Q7**

[A] Bias obtained thru 180 ohm cathode resistor.

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7R7-10C8

TYPE	DESCRIPTION	FILAMENT VOLTS	FILAMENT AMPERES	TYPE OF CATHODE	APPLICATION	PLATE VOLTS	SCREEN GRID VOLTS	CONTROL GRID VOLTS (NEG.)	PLATE CURRENT MA.	SCREEN CURRENT MA.	TRANSCONDUCTANCE MICROMHOS	PLATE RESISTANCE MEGOHMS	AMPLIFICATION FACTOR	LOAD RESISTANCE OHMS	POWER OUTPUT WATTS	RECTIFIER CONDENSER INPUT: MAX. A.C. RMS VOLTS PER PLATE	RECTIFIER CONDENSER INPUT: MAX. PEAK INVERSE VOLTS	RECTIFIER CONDENSER INPUT: MAX. D.C. OUTPUT MA.	BULB STYLE	BULB OUTLINE NO.	BASE STYLE	BASE BASING	TYPE
7R7	DOUBLE DIODE PENTODE	6.3	0.3	HEATER	CLASS A AMPLIFIER	250	100	1	5.7	2.1	3200	1000							T-9	26	8 PIN LOC.	8AE	**7R7**
7S7	TRIODE-HEXODE	6.3	0.3	HEATER	CONVERTER	250	100	2	1.8	3	525	1250	Triode Plate: 250 V. thru 20,000 ohms 5 Ma. Triode Grid: 50,000 ohms 0.5 Ma.						T-9	26	8 PIN LOC.	8BL	**7S7**
					TRIODE UNIT	100		0	7		1650	10.5	18										
7T7	PENTODE	6.3	0.3	HEATER	CLASS A AMPLIFIER	250	150	1	10.8	4.1	4900	900							T-9	26	8 PIN LOC.	8V	**7T7**
7W7	PENTODE	6.3	0.45	HEATER	CLASS A AMPLIFIER	300	150	AV	10	3.9	5800	300							T-9	26	8 PIN LOC.	8BJ	**7W7**
7X6	DOUBLE DIODE	6.3	1.2	HEATER	HALF-WAVE RECTIFIER	Max. Steady State Peak Plate Current: 450 Ma.										700	75		T-9	30	8 PIN LOC.	7AJ	**7X6**
7Y4	DOUBLE DIODE	6.3	0.5	HEATER	FULL-WAVE RECTIFIER	Peak Plate Current per plate: 210 Ma.										450	1250	70	T-9	26	8 PIN LOC.	5AB	**7Y4**
7Z4	DOUBLE DIODE	6.3	0.5	HEATER	FULL-WAVE RECTIFIER	Max. Peak Plate Current: 300 Ma.										450	1250	100	T-9	30	8 PIN LOC.	5AB	**7Z4**
8BH8	TRIODE PENTODE	8.4	0.45*	HEATER	CLASS A AMPLIFIER H CLASS A AMPLIFIER G	200 200	125	R 5	15 9.5	3.4	7000 3300	150 5.15	17	Cut-off: 100 μamp. @ −8 V. Cut-off: 100 μamp. @ −14 V.					T-6½	9	MIN. 9 PIN	9DX	**8BH8**
8BN8	DOUBLE DIODE TRIODE	8.4	0.45*	HEATER	CLASS A AMPLIFIER	100 250		1 3	1.5 1.6		3500 2500	21 70		Cut-off: 10 μamp. @ −2.5 V. Cut-off: 10 μamp. @ −5.5 V.					T-6½	9	MIN. 9 PIN	9ER	**8BN8**
8SN7GTB	DOUBLE TRIODE	8.4	0.45*	HEATER	CLASS A AMPLIFIER	250 90		8 0	9 10		2600 3000	7.7 6.7	20 20	Each Section					T-9	35	8 PIN OCTAL	8BD	**8SN7GTB**
9CL8	TRIODE TETRODE	9.5	0.3	HEATER	CLASS A AMPLIFIER G CLASS A AMPLIFIER D	125 125	125	K 1.0	15 12	4.0	8000 5800	5 100	40	Cut-off: 10 μamp. @ −9 V. Cut-off: 10 μamp. @ −10 V.					T-6½	8	MIN. 9 PIN	9FX	**9CL8**
9U8A	TRIODE PENTODE	9.45	0.3	HEATER	CLASS A AMPLIFIER H CLASS A AMPLIFIER G	250 150	110	B K	10 18	3.5	5200 8500	400 5	40	Cut-off: 10 μamp. @ −10 V. Cut-off: 10 μamp. @ −12 V.					T-6½	8	MIN. 9 PIN	9AE	**9U8A**
9X8	TRIODE PENTODE	9.5	0.3*	HEATER	OSCILLATOR G MIXER H	100 250	150	C D	8.5 7.7	1.6	5800 4600	6.9 750	40	Cut-off: 10 μamp. @ −10 V. Cut-off: 10 μamp. @ −10 V.					T-6½	8	MIN. 9 PIN	9AK	**9X8**
10	TRIODE	7.5	1.25	FIL.	CLASS A AMPLIFIER	425		40	18		1600	5	8	10,200	1.6				ST-16	85	MED. 4 PIN	4D	**10**
10C8	TRIODE PENTODE	10.5	0.3*	HEATER	CLASS A AMPLIFIER H CLASS A AMPLIFIER G	135 250	135	C E	11.5 7.3	3.2	8000 4400	190 12	53	Cut-off: 50 μamp. @ −6 V. Cut-off: 10 μamp. @ −10 V.					T-6½	8	MIN. 9 PIN	9DA	**10C8**

* Heater warm-up time: 11 seconds.

H Pentode unit. D Tetrode unit.

G Triode unit. C Bias obtained thru 100 ohm cathode resistor.

E Bias obtained thru 390 ohm cathode resistor.

AV Bias obtained thru 160 ohm cathode resistor.

R Bias obtained thru 82 ohm cathode resistor.

K Bias obtained thru 56 ohm cathode resistor.

B Bias obtained thru 68 ohm cathode resistor.

D Bias obtained thru 200 ohm cathode resistor.

TUNG-SOL ELECTRIC INC., ELECTRON TUBE DIVISION, BLOOMFIELD, NEW JERSEY, U.S.A. APRIL 1, 1962 PLATE #6440

TUNG-SOL

TUBES NOT RECOMMENDED FOR NEW EQUIPMENT DESIGN

11C5-12B8GT

TYPE	DESCRIPTION	FILAMENT VOLTS	FILAMENT AMPERES	TYPE OF CATHODE	APPLICATION	PLATE VOLTS	SCREEN GRID VOLTS	CONTROL GRID VOLTS (NEG.)	PLATE CURRENT MA.	SCREEN CURRENT MA.	TRANS-CONDUCTANCE MICROMHOS	PLATE RESISTANCE MEGOHMS	AMPLIFICATION FACTOR	LOAD RESISTANCE OHMS	POWER OUTPUT WATTS	RECTIFIER CONDENSER INPUT: MAX. A.C. RMS VOLTS PER PLATE	RECTIFIER CONDENSER INPUT: MAX. PEAK INVERSE VOLTS	RECTIFIER CONDENSER INPUT: MAX. D.C. OUTPUT MA.	BULB STYLE	BULB OUTLINE NO.	BASE STYLE	BASE BASING	TYPE
11C5	BEAM PENTODE	11.6	0.45	HEATER	CLASS A AMPLIFIER	110	110	7.5	40[F]	3[F]	5800	2.5			1.5				T-5½	5	MIN. 7 PIN	7CV	**11C5**
12A	TRIODE	5	0.25	DC FIL.	CLASS A AMPLIFIER	180		13.5	7.7		1800	4.7	8.5	10,650	0.285				ST-14	78	MED. 4 PIN	4D	**12A**
12A4	TRIODE	12.6	0.3	HEATER	CLASS A AMPLIFIER	250		9	23		8000		20	Cutoff: 50 μa at Eb = 500 V.: −33 V.					T-6½	9	MIN. 9 PIN	9AG	**12A4**
					VERTICAL DEFLECTION AMPLIFIER	DC Plate Voltage: 250 V. Grid Input Voltage (approx.): Peak-to-Peak Sawtooth Component: 25 V. Negative Peaking Component: 30 V. DC Plate Current: 15 mA.								Plate Output Voltage: Peak Positive Pulse Component: 450 V. Peak-to-Peak Sawtooth Component: 220 V. Peak-to-Peak Sawtooth Current in Yoke (50 mh. inductance): 360 mA.									
12A5	PENTODE	6.3	0.6	HEATER	CLASS A AMPLIFIER	180	180	25	45	8	2400	35		3300	3.4				ST-12	70	SMALL 7 PIN	7F	**12A5**
12A6GT	BEAM PENTODE	12.6	0.15	HEATER	CLASS A AMPLIFIER	250	250	12.5	30	3.5	3000			7500	3				T-9	35	7 PIN OCTAL	7S	**12A6GT**
12A7	DIODE PENTODE	12.6	0.3	HEATER	HALF-WAVE RECTIFIER											125		30	ST-12	72	SMALL 7 PIN	7K	**12A7**
12A8GT	HEPTODE	12.6	0.15	HEATER	CLASS A AMPLIFIER	100	50	1.5	1.1	1.3	360	600							T-9	34	8 PIN OCTAL	8A	**12A8GT**
12AD7	TWIN TRIODE	6.3 12.6	.45 .225	HEATER	CLASS A AMPLIFIER	250		2	1.25		1600	62.5	100						T-6½	8	MIN. 9 PIN	9A	**12AD7**
12AH7GT	DOUBLE TRIODE	12.6	0.15	HEATER	CLASS A AMPLIFIER	180		6.5	7.6		1900	8.4	16	Each Section					T-9	29	8 PIN OCTAL	8BE	**12AH7GT**
12AX4GT	DIODE	12.6	0.6	HEATER	TV DAMPER SERVICE	Max. Steady State Peak Plate Current: 600 mA. Max. Transient Peak Plate Current: 3 Amp. Tube Voltage Drop at 250 mA.: 32 V.											4000	125	T-9	36	6 PIN OCTAL	4CG	**12AX4GT**
12B4	TRIODE	12.6 6.3	0.3 0.6	HEATER	CLASS A AMPLIFIER	150		17.5	35		6500		6.5						T-6½	9	MIN. 9 PIN	9AG	**12B4**
12B7	PENTODE	12.6	0.15	HEATER	CLASS A AMPLIFIER	250	100	3	9.2	2.4	2000	800							T-9	26	8 PIN LOC.	8V	**12B7**
12B8GT	TRIODE PENTODE	12.6	0.3	HEATER	TRIODE UNIT AS CLASS A AMPLIFIER	90		0	2.8		2400	37	90						T-9	42	8 PIN OCTAL	8A	**12B8GT**

[F] Zero signal.

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12BH7-12CT8

TYPE	DESCRIPTION	FILAMENT VOLTS	FILAMENT AMPERES	TYPE OF CATHODE	APPLICATION	PLATE VOLTS	SCREEN GRID VOLTS	CONTROL GRID VOLTS (NEG.)	PLATE CURRENT MA.	SCREEN CURRENT MA.	TRANSCONDUCTANCE MICROMHOS	PLATE RESISTANCE MEGOHMS	AMPLIFICATION FACTOR	LOAD RESISTANCE OHMS	POWER OUTPUT WATTS	RECTIFIER CONDENSER INPUT: MAX. A.C. RMS VOLTS PER PLATE	RECTIFIER CONDENSER INPUT: MAX. PEAK INVERSE VOLTS	RECTIFIER CONDENSER INPUT: MAX. D.C. OUTPUT MA.	BULB STYLE	BULB OUTLINE NO.	BASE STYLE	BASE BASING	TYPE
12BH7	DOUBLE TRIODE	12.6 6.3	0.3 0.6	HEATER	CLASS A AMPLIFIER VERTICAL DEFLECTION AMPLIFIER	250 85		10.5 0		11.5 20		3100 6200	17 21	Cut-off: 50 μamp. @ Eb = 500 V. and −45 V.					T-6½	9	MIN. 9 PIN	9A	**12BH7**
					DC Plate Voltage: 350 Grid Input Voltage (approx.): Peak-to-Peak Sawtooth Component: 25 V. Negative Peak Component: 32 V. DC Plate Current: 16 mA.									Plate Output (approx.): Peak-to-Peak Sawtooth Component: 230 V. Peak Positive Pulse Component: 670 V. Cathode Bias Resistor: 560 Ohms.										
12BK5	PENTODE	12.6	0.6*	HEATER	CLASS A AMPLIFIER	250	250	5	35[F]	3.5[F]	8500	100		6500	3.5				T-6½	9	MIN. 9 PIN	9BQ	**12BK5**
12BQ6GA	PENTODE	12.6	0.6*	HEATER	CLASS A AMPLIFIER	250	150	22.5	55	2.1	5500	20		Cutoff: 1 μa @ −46 V.					T-9	52	7 PIN OCTAL	6AM	**12BQ6GA**
12BT6	DOUBLE DIODE TRIODE	12.6	0.15	HEATER	CLASS A AMPLIFIER	250		3	1		1200	58	70						T-5½	5	MIN. 7 PIN	7BT	**12BT6**
12BU6	DOUBLE DIODE TRIODE	12.6	0.15	HEATER	CLASS A AMPLIFIER	250		9	9.5		1900	8.5	16	10,000	0.3				T-5½	5	MIN. 7 PIN	7BT	**12BU6**
12BV7	PENTODE	12.6 6.3	0.3 0.6	HEATER	VIDEO AMPLIFIER	250	150	[A]	25	6.0	12000	90	11000	Similar to 12BY7					T-6½	9	MIN. 9 PIN	9BF	**12BV7**
12BY7	PENTODE	12.6 6.3	0.30 0.60	HEATER	CLASS A AMPLIFIER	250	150	[A]	25	6	12000	90	1035						T-6½	9	MIN. 9 PIN	9BF	**12BY7**
12BZ7	TWIN TRIODE	12.6 6.3	0.3 0.6	HEATER	CLASS A AMPLIFIER	250		2	2.5		3200	31.8	100						T-6½	9	MIN. 9 PIN	9A	**12BZ7**
12C8	DOUBLE DIODE PENTODE	12.6	0.15	HEATER	CLASS A AMPLIFIER	250	125	3	10	2.3	1325	600	Identical to type 6B8 except for heater ratings.						MT-8	19	SMALL WAFER 8 PIN	8E	**12C8**
12CM6	BEAM PENTODE	12.6	0.225	HEATER	CLASS A AMPLIFIER	315	225	13.0	34[F]	2.2[F]	3750	80		8500	5.5				T-6½	9	MIN. 9 PIN	9CK	**12CM6**
12CN5	PENTODE	12.6	0.45	HEATER	[IF] AMPLIFIER	12.6	12.6		4.5	3.5	3800	40							T-5½	5	MIN. 7 PIN	7CV	**12CN5**
12CS5	BEAM PENTODE	12.6	0.6	HEATER	CLASS A AMPLIFIER	110 200	110 125	7.5 [A]	49[F] 46[F]	4[F] 2.2[F]	8000 8000	13 28		2000 4000	2.1 3.8				T-6½	10A	MIN. 9 PIN	9CK	**12CS5**
12CS6	HEPTODE	12.6	0.15	HEATER	CLASS A AMPLIFIER	100	30	1	0.75	1.1	950	1000	Cut-off: 50 μa @ −2.5 V.						T-5½	4	MIN. 7 PIN	7CH	**12CS6**
12CT8	TRIODE PENTODE	12.6	0.3*	HEATER	CLASS A [B] AMPLIFIER [C]	200 150	125	[D] [E]	15 9.0	3.4	7000 4900	150 8.2	40	Cut-off: 100 μamp. @ −8 V. Cut-off: 100 μamp. @ −6.5 V.					T-6½	8	MIN. 9 PIN	9DA	**12CT8**

[F] Zero signal. * Heater warm-up time: 11 seconds.
[B] Pentode section. [C] Triode section.
[A] Bias obtained thru 68 ohm cathode resistor.
[D] Bias obtained thru 82 ohm cathode resistor.
[E] Bias obtained thru 150 ohm cathode resistor.

TUNG-SOL ELECTRIC INC., ELECTRON TUBE DIVISION, BLOOMFIELD, NEW JERSEY, U.S.A., APRIL 1, 1962 PLATE #6441

TUNG-SOL

TUBES NOT RECOMMENDED FOR NEW EQUIPMENT DESIGN

12CU6-12J5GT

TYPE	DESCRIPTION	FILAMENT VOLTS	FILAMENT AMPERES	TYPE OF CATHODE	APPLICATION	PLATE VOLTS	SCREEN GRID VOLTS	CONTROL GRID VOLTS (NEG.)	PLATE CURRENT MA.	SCREEN CURRENT MA.	TRANSCONDUCTANCE μMHOS	PLATE RESISTANCE KILOHMS	AMPLIFICATION FACTOR	LOAD RESISTANCE OHMS	POWER OUTPUT WATTS	RECTIFIER CONDENSER INPUT: MAX. A.C. RMS VOLTS PER PLATE	RECTIFIER CONDENSER INPUT: MAX. PEAK INVERSE VOLTS	RECTIFIER CONDENSER INPUT: MAX. D.C. OUTPUT MA.	BULB: STYLE	BULB: OUTLINE NO.	BASE: STYLE	BASE: BASING	TYPE
12CU6	PENTODE	12.6	0.6	HEATER	HORIZONTAL DEFLECTION AMPLIFIER	310	140		79	11.2	Average Plate Voltage: 540 V. Peak Positive Plate Voltage: 4.6 Kv. Peak Plate Current: 270 mA.								T-12	59	INT. OCTAL 7 PIN	6AM	**12CU6**
12CX6	PENTODE	12.6	0.15	HEATER	CLASS A AMPLIFIER	12.6	12.6		3.0	1.4	3100	40	Cut-off: 10 μamp. @ −4.5 V.						T-5½	4	MIN. 7 PIN	7BK	**12CX6**
12D4	DIODE	12.6	0.6	HEATER	DAMPING TUBE	Tube Voltage Drop With I_b = 250 mA. = 22 V. Max. DC Plate Current = 155 mA. Max. Peak Plate Current = 900 mA. Max. Plate Dissipation = 5.5 Watts													T-9	32	6 PIN OCTAL	4CG	**12D4**
12DB5	PENTODE	12.6	0.6	HEATER	CLASS A AMPLIFIER	110 200	110 125	7.5 G	49[F] 46[F]	4[F] 2.2[F]	8000 8000	13 28							T-6½	10B	MIN. 9 PIN	9GR	**12DB5**
12DQ6	PENTODE	12.6	0.6	HEATER	HORIZONTAL DEFLECTION AMPLIFIER	DC Grid #1 Voltage: −28 V. DC Grid #2 Voltage: 140 V. Peak Positive Plate Voltage: 3440 V. Grid #1 Input Voltage: Peak To Peak Sawtooth: 74 V. Negative Peaking: 18 V. DC Plate Current: 83 mA. DC Grid #2 Current: 12.3 mA. Plate Dissipation: 5.1 Watts												T-12	56	SHORT 8 PIN	6AM	**12DQ6**
12E5GT	TRIODE	12.6	0.15	HEATER	CLASS A AMPLIFIER	250 100		13.5 5	5 2.5		1450 1150	9.5 12	13.8 13.8						T-9	35	6 PIN OCTAL	6Q	**12E5GT**
12EF6	BEAM PENTODE	12.6	0.45*	HEATER	VERTICAL DEFLECTION AMPLIFIER	250	250	18	50	2	5000	Cut-off: 1 mA. at −40 V.							T-9	37	INT. OCTAL 8 PIN	7S	**12EF6**
12F5GT	TRIODE	12.6	0.15	HEATER	CLASS A AMPLIFIER	250		2	0.9		1500	66	100						T-9	33	5 PIN OCTAL	5M	**12F5GT**
12G8	DOUBLE TRIODE	12.6	0.4	HEATER	DIRECT [G] COUPLED AMPLIFIER	12.6		0[A]	3.0[FD] 7.2[FN]		2600	8.5	2.2	2000	25				T-6½	9	MIN. 9 PIN	9CZ	**12G8**
12J5	TRIODE	12.6	0.15	HEATER	CLASS A AMPLIFIER	250 90		8 0	9 10		2600 3000	7.7 6.7	20 20						MT-8	17	6 PIN OCTAL	6Q	**12J5**
12J5GT	TRIODE	12.6	0.15	HEATER	CLASS A AMPLIFIER	250 90		8 0	9 10		2600 3000	7.7 6.7	20 20	Cut-off: 10 μamp. @ −18 V. Cut-off: 10 μamp. @ −7.0 V.					T-9	35	6 PIN OCTAL	6Q	**12J5GT**

*Heater warm-up time: 11 seconds.
[A] Input section.
[F] Zero signal.
[FD] Zero signal (input section).
[G] With cathode of input section connected to grid of output section.
[FN] Zero signal (output section).

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12J7GT-12SJ7

TYPE	DESCRIPTION	FILAMENT VOLTS	FILAMENT AMPERES	TYPE OF CATHODE	APPLICATION	PLATE VOLTS	SCREEN GRID VOLTS	CONTROL GRID VOLTS (NEG.)	PLATE CURRENT MA.	SCREEN CURRENT MA.	TRANS-CONDUCTANCE μMHOS	PLATE RESISTANCE MEGOHMS	AMPLIFICATION FACTOR	LOAD RESISTANCE OHMS	POWER OUTPUT WATTS	RECTIFIER CONDENSER INPUT: MAX. A.C. PLATE VOLTS RMS PER PLATE	RECTIFIER CONDENSER INPUT: MAX. PEAK INVERSE VOLTS	RECTIFIER CONDENSER INPUT: MAX. D.C. OUTPUT MA.	BULB STYLE	OUTLINE NO.	BASE STYLE	BASING	TYPE
12J7GT	PENTODE	12.6	0.15	HEATER	CLASS A AMPLIFIER	250 100	100 100	3 3	2 2	0.5 0.5	1225 1185	1000 1000	Cut-off: at −7 V.						T-9	34	7 PIN OCTAL	7R	**12J7GT**
					BIAS DETECTOR	Plate: 250 V. thru 0.5 Meg. Grid #2: 100 V. Cathode resistor: 10,000 ohms Plate: 100 V. thru 1 Meg. Grid #2: 100 V. Cathode resistor: 25,000 ohms																	
12K7GT	PENTODE	12.6	0.15	HEATER	CLASS A AMPLIFIER	250 100	125 100	3 1	10.5 9.5	2.6 2.7	1650 1650	600 150	Cutoff: 2 μmhos @ −52 V. Cutoff: 2 μmhos @ −38 V.						T-9	34	7 PIN OCTAL	7R	**12K7GT**
12K8GT	TRIODE HEXODE	12.6	0.15	HEATER	CONVERTER	250	100	3	2.5	6	350	600							T-9	42	8 PIN OCTAL	8K	**12K8GT**
12L8GT	DOUBLE PENTODE	12.6	0.15	HEATER	CLASS A AMPLIFIER	180	180	9	13.5	4.6	2150	160		10,000	1 Each Section				T-9	35	8 PIN OCTAL	8BU	**12L8GT**
12Q7GT	DOUBLE DIODE TRIODE	12.6	0.15	HEATER	CLASS A AMPLIFIER	250 100		3 0	1.1 2.3		1200 1400	58 43	70 70						T-9	34	7 PIN OCTAL	7V	**12Q7GT**
12R5	PENTODE	12.6	0.6*	HEATER	VERTICAL DEFLECTION AMPLIFIER	110	110	8.5	40	3.3	7000	13		Cut-off: 0.5 mA. @ −22 V.					T-5½	5	MIN. 7 PIN	7CV	**12R5**
12S8GT	TRIPLE DIODE TRIODE	12.6	0.15	HEATER	CLASS A AMPLIFIER	250		2	0.9		1100	91	100						T-9	43	8 PIN OCTAL	8CB	**12S8GT**
12SA7GT	HEPTODE	12.6	0.15	HEATER	CONVERTER	250 100	100 100	2 2	3.5 3.5	8.5 8.5	450 425	1000 500	Ig_1: 0.5 mA. through 20,000 ohms Ig_1: 0.5 mA. through 20,000 ohms						T-9	32	8 PIN OCTAL	8AD	**12SA7GT**
12SC7	DOUBLE TRIODE	12.6	0.15	HEATER	CLASS A AMPLIFIER	250		2	2		1325	53	70						MT-8	17	8 PIN OCTAL	8S	**12SC7**
12SF5GT	TRIODE	12.6	0.15	HEATER	CLASS A AMPLIFIER	250		2	0.9		1500	66	100						T-9	35	6 PIN OCTAL	6AB	**12SF5GT**
12SF7	DIODE PENTODE	12.6	0.15	HEATER	CLASS A AMPLIFIER	250 100	100 100	1 1	12.4 12	3.3 3.4	2050 1975	700 200							MT-8	17	8 PIN OCTAL	7AZ	**12SF7**
12SJ7	PENTODE	12.6	0.15	HEATER	CLASS A AMPLIFIER	SAME CHARACTERISTICS AS TYPE 12SJ7GT													MT-8	17	8 PIN OCTAL	8N	**12SJ7**

* Heater warm-up time: 11 seconds.

TUNG-SOL ELECTRIC INC., ELECTRON TUBE DIVISION, BLOOMFIELD, NEW JERSEY, U.S.A. APRIL 1, 1962 PLATE #6942

TUNG-SOL

TUBES NOT RECOMMENDED FOR NEW EQUIPMENT DESIGN

		FILAMENT				TYPICAL OPERATING CONDITIONS AND CHARACTERISTICS												BULB	BASE		
TYPE	DESCRIPTION	VOLTS	AMPERES	TYPE OF CATHODE	APPLICATION	PLATE VOLTS	SCREEN GRID VOLTS	CONTROL GRID VOLTS (NEG.)	PLATE CURRENT MA.	SCREEN CURRENT MA.	TRANS-CONDUCTANCE μMHOS	PLATE RESISTANCE MEGOHMS	AMPLIFICATION FACTOR	LOAD RESISTANCE OHMS	POWER OUTPUT WATTS	RECTIFIER CONDENSER INPUT: MAX. A.C. RMS VOLTS PER PLATE	RECTIFIER CONDENSER INPUT: MAX. PEAK INVERSE VOLTS	RECTIFIER CONDENSER INPUT: MAX. D.C. OUTPUT MA.	STYLE	OUTLINE NO.	STYLE	BASING	TYPE
12SJ7GT	PENTODE	12.6	0.15	HEATER	CLASS A AMPLIFIER	250 100	100 100	3 3	3 2.9	0.8 0.9	1650 1575	1000 700	Cutoff: at −8 V.						T-9	32	8 PIN OCTAL	8N	**12SJ7GT**
12SK7GT	PENTODE	12.6	0.15	HEATER	CLASS A AMPLIFIER	250 100	100 100	3 1	9.2 13	2.6 4	2000 2350	800 120	Cutoff: 10 μmhos at −35 V.						T-9	32	8 PIN OCTAL	8N	**12SK7GT**
12SQ7GT	DOUBLE DIODE TRIODE	12.6	0.15	HEATER	CLASS A AMPLIFIER	250 100		2 1	1.1 0.5		1175 925	85 110	100 100						T-9	40	8 PIN OCTAL	8Q	**12SQ7GT**
12SR7GT	DOUBLE DIODE TRIODE	12.6	0.15	HEATER	CLASS A AMPLIFIER	250		9	9.5		1900	8.5	16						T-9	35	8 PIN OCTAL	8Q	**12SR7GT**
12SW7	DOUBLE DIODE TRIODE	12.6	0.15	HEATER	CLASS A AMPLIFIER	250		9	9.5		1900	8.5	16						MT-8G	17	8 PIN OCTAL	8Q	**12SW7**
12SX7GT	TRIODE	12.6	0.3	HEATER	CLASS A AMPLIFIER	90 250		0 8	10 9		3000 2600	6.7 7.7	20 20						T-9	33	8 PIN OCTAL	8BD	**12SX7GT**
12SY7	HEPTODE	12.6	0.15	HEATER	CONVERTER	250	100	2	3.5	8.5	450	1000							MT-8G	17	8 PIN OCTAL	8R	**12SY7**
12SY7GT	HEPTODE	12.6	0.15	HEATER	CONVERTER	250	100	2	3.5	8.5	450	1000							T-9	33	8 PIN OCTAL	8R	**12SY7GT**
12Z3	DIODE	12.6	0.3	HEATER	HALF-WAVE RECTIFIER											235	700	55	ST-12	70	SMALL 4 PIN	4G	**12Z3**
14A4	TRIODE	12.6	0.15	HEATER	CLASS A AMPLIFIER	90 250		0 8	10 9		3000 2600	6.7 7.7	20 20						T-9	19	8 PIN LOC.	5AC	**14A4**
14A5	BEAM PENTODE	12.6	0.15	HEATER	CLASS A AMPLIFIER	125	125	9	44	3.3	6000	17		2700	2.2				T-9	26	8 PIN LOC.	6AA	**14A5**
14B6	DOUBLE DIODE TRIODE	12.6	0.15	HEATER	CLASS A AMPLIFIER	250 100		2 1	0.9 0.4		1100 900	91 110	100 100						T-9	19	8 PIN LOC.	8W	**14B6**
14C5	BEAM PENTODE	12.6	0.15	HEATER	CLASS A AMPLIFIER	315	225	13	34	2.2	3750	58		8500	5.5				T-9	26	8 PIN LOC.	6AA	**14C5**
14C7	PENTODE	12.6	0.15	HEATER	CLASS A AMPLIFIER	250	100	3	2.2	0.7	1575	1000	Cutoff: at −7 V.						T-9	26	8 PIN LOC.	8V	**14C7**

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14E6-17H3

TYPE	DESCRIPTION	FILAMENT VOLTS	FILAMENT AMPERES	TYPE OF CATHODE	APPLICATION	TYPICAL OPERATING CONDITIONS AND CHARACTERISTICS: PLATE VOLTS	SCREEN GRID VOLTS	CONTROL GRID VOLTS (NEG.)	PLATE CURRENT MA	SCREEN CURRENT MA	TRANS-CONDUCTANCE μMHOS	PLATE RESISTANCE MEGOHMS	AMPLIFICATION FACTOR	LOAD RESISTANCE OHMS	POWER OUTPUT WATTS	RECTIFIER CONDENSER INPUT: MAX. A.C. RMS VOLTS PER PLATE	RECTIFIER CONDENSER INPUT: MAX. PEAK INVERSE VOLTS	RECTIFIER CONDENSER INPUT: MAX. D.C. OUTPUT MA.	BULB: STYLE	BULB: OUTLINE NO.	BASE: STYLE	BASE: BASING	BASE: TYPE
14E6	DOUBLE DIODE-TRIODE	12.6	0.15	HEATER	CLASS A AMPLIFIER	250		9	9.5		1900	8.5	16						T-9	19	8 PIN LOC.	8W	**14E6**
14E7	DOUBLE DIODE PENTODE	12.6	0.15	HEATER	CLASS A AMPLIFIER	250	100	3	7.5	1.6	1300	700	Cutoff: 2 μmhos @ −42.5 V.						T-9	19	8 PIN LOC.	8AE	**14E7**
14F7	DOUBLE TRIODE	12.6	0.15	HEATER	CLASS A AMPLIFIER	250		2	2.3		1600	44	70	Each Section					T-9	19	8 PIN LOC.	8AC	**14F7**
14F8	DOUBLE TRIODE	12.6	0.15	HEATER	CLASS A AMPLIFIER	250		[B]	6		3300		48	Cutoff: 10 μa. at −11 V. Each Section					T-9	24	8 PIN LOC.	8BW	**14F8**
14H7	PENTODE	12.6	0.15	HEATER	CLASS A AMPLIFIER	250	150	0	10	3.2	4000	800	Cutoff: 35 μmhos @ −19 V.						T-9	26	8 PIN LOC.	8V	**14H7**
14J7	TRIODE HEXODE	12.6	0.15	HEATER	CONVERTER	250	100	3	1.4	2.8	290	1500							T-9	26	8 PIN LOC.	8BL	**14J7**
14N7	DOUBLE TRIODE	12.6	0.3	HEATER	CLASS A AMPLIFIER	250		8	9		2600	7.7	20	Each Section					T-9	26	8 PIN LOC.	8AC	**14N7**
14Q7	HEPTODE	12.6	0.15	HEATER	CONVERTER	250 100	100 100	2 2	3.5 3.3	8.5 8.5	550 525	1000 500							T-9	26	8 PIN LOC.	8AL	**14Q7**
14R7	DOUBLE DIODE PENTODE	12.6	0.15	HEATER	CLASS A AMPLIFIER	250	100	1	5.7	2.1	3200	1000	Cutoff: 2 μmhos at −20 V.						T-9	26	8 PIN LOC.	8AE	**14R7**
15	PENTODE	2	0.22	HEATER	CLASS A AMPLIFIER	135	67.5	1.5	1.85	0.3	750	800	600						ST-12	72	SMALL 5 PIN	5F	**15**
17AV5GA	PENTODE	16.8	0.45*	HEATER	HORIZONTAL DEFLECTION AMPLIFIER	250 60	150 150	22.5 0	55 225	2.1 25	5500	20	Cutoff: 1.0 mA. @ −46 V.						T-11	55	6 PIN OCTAL	6CK	**17AV5GA**
17CA5	PENTODE	16.8	0.45*	HEATER	CLASS A AMPLIFIER	110 125	110 125	4.0 4.5	32[F] 37[F]	3.5[F] 4.0[F]	8100 9200	16 15		3500 4500	1.1 1.5				T-5½	5	MIN. 7 PIN	7CV	**17CA5**
17DQ6	PENTODE	16.8	0.45*	HEATER	HORIZONTAL DEFLECTION AMPLIFIER		140	28	83	12.3	Grid #1 Input Voltage: Peak To Peak Sawtooth: 74 V. Negative Peaking: 18 V. Peak Positive Plate Voltage: 3440 V. Plate Dissipation: 5.1 Watts								T-12	56	7 PIN OCTAL	6AM	**17DQ6**
17H3	DIODE	17.5	0.3*	HEATER	DAMPING TUBE	Tube voltage drop at I_b-140 mA DC: 22 V.											2000	75	T-6½	9	MIN. 9 PIN	9FK	**17H3**

* Heater warm-up time: 11 seconds.

[F] Zero signal.

[B] Bias obtained thru 500 ohm cathode resistor.

17L6GT-24S

TYPE	DESCRIPTION	FILAMENT VOLTS	FILAMENT AMPERES	TYPE OF CATHODE	APPLICATION	PLATE VOLTS	SCREEN GRID VOLTS	CONTROL GRID VOLTS (NEG.)	PLATE CURRENT MA.	SCREEN CURRENT MA.	TRANSCONDUCTANCE AMPOS	PLATE RESISTANCE KILOHMS	AMPLIFICATION FACTOR	LOAD RESISTANCE OHMS	POWER OUTPUT WATTS	RECTIFIER CONDENSER INPUT: MAX. A.C. RMS VOLTS PER PLATE	RECTIFIER CONDENSER INPUT: MAX. PEAK INVERSE VOLTS	RECTIFIER CONDENSER INPUT: MAX. D.C. OUTPUT MA.	BULB STYLE	BULB OUTLINE NO.	BASE STYLE	BASE BASING	TYPE
17L6GT	BEAM PENTODE	16.8	0.45*	HEATER	CLASS A AMPLIFIER	110 200	110 125	7.5 0	49[F] 46[F]	4[F] 2.2[F]	8000 8000	13 28		2000 4000	2.1 3.8				T-9	36	INT. OCTAL 7 PIN	7S	**17L6GT**
17R5	PENTODE	16.8	0.45*	HEATER	VERTICAL DEFLECTION AMPLIFIER	110	110	8.5	40	3.3	7000	13	Cut-off: 0.5 mA. @ −22 V.						T-5½	5	MIN. 7 PIN	7CV	**17R5**
18A5	BEAM PENTODE	18.5	0.3*	HEATER	HORIZONTAL DEFLECTION AMPLIFIER	60 200	125 125	0 17	165 40	15 1.1	4800	27							T-9	41	6 PIN OCTAL	6CK	**18A5**
19	DOUBLE TRIODE	2	0.26	DC FIL.	CLASS B AMPLIFIER	135		0	10					10,000	2.1				ST-17	70	SMALL 6 PIN	6C	**19**
19BG6G	BEAM PENTODE	18.9	0.3	HEATER	HORIZONTAL DEFLECTION AMPLIFIER	250	250	15	75	4	6000	25	Cut-off: 1 ma. @ −45 V.						ST-16	83	6 PIN OCTAL	5BT	**19BG6G**
19BG6GA	BEAM PENTODE	18.9	0.3	HEATER	HORIZONTAL DEFLECTION AMPLIFIER	60 250	250 250	0 15	180 75	18 4.0	6000	25	Cut-off: 1 mA. @ − 45 V.						T-12	62	5 PIN OCTAL	5BT	**19BG6GA**
19C8	TRIPLE DIODE TRIODE	18.9	0.15	HEATER	CLASS A AMPLIFIER	100		1	0.5		1250	80	100						T-6½	8	MIN. 9 PIN	9AE	**19C8**
19J6	DOUBLE TRIODE	18.9	0.15	HEATER	CLASS A AMP. [L]	100		[C]	8.5		5300	7.1	38						T-5½	4	MIN. 7 PIN	7BF	**19J6**
					MIXER SERVICE [L]	150		[D]	4.8		1900	10.2	Oscillator Peak Voltage: 3 V. Short Circuit Input conductance at 100 mc.: 96 μmhos.										
19X8	TRIODE PENTODE	19.8	0.15	HEATER	OSCILLATOR MIXER E G H	100 250 150	150		8.5 7.7 7.8	1.6	5800 4600 4000	6.9 750 7.9	40 42						T-6½	8	MIN. 9 PIN	9AK	**19X8**
20	TRIODE	3.3	0.13	DC FIL.	CLASS A AMPLIFIER	135		22.5	6.5		525	6.3	3.3	6500	0.11				T-8	14	SMALL 4 PIN	4D	**20**
24A	TETRODE	2.5	1.75	HEATER	CLASS A AMPLIFIER	250	90	3	4	1.7	1050	600	630						ST-14	79	MED. 5 PIN	5E	**24A**
24S	TETRODE	2.5	1.75	HEATER	CLASS A AMPLIFIER	250	90	3	4	1.7	1050	600	630						ST-14	79	MED. 5 PIN	5E	**24S**

* Heater warm-up time: 11 seconds.
[F] Zero signal.
[A] For each section.
[C] Fixed bias not recommended, cathode bias: 50 ohms for both units.
[D] Fixed bias not recommended, cathode bias: 810 ohms for both units.

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25A6-25D8GT

TYPE	DESCRIPTION	FILAMENT VOLTS	FILAMENT AMPERES	TYPE OF CATHODE	APPLICATION	TYPICAL OPERATING CONDITIONS AND CHARACTERISTICS: PLATE VOLTS	SCREEN GRID VOLTS	CONTROL GRID VOLTS (NEG.)	PLATE CURRENT MA.	SCREEN CURRENT MA.	TRANSCONDUCTANCE MICROMHOS	PLATE RESISTANCE MEGOHMS	AMPLIFICATION FACTOR	LOAD RESISTANCE OHMS	POWER OUTPUT WATTS	RECTIFIER CONDENSER INPUT: MAX. A.C. RMS V. VOLTS PER PLATE	RECTIFIER CONDENSER INPUT: MAX. PEAK INVERSE VOLTS	RECTIFIER CONDENSER INPUT: MAX. D.C. OUTPUT MA.	BULB: STYLE	BULB: OUTLINE NO.	BASE: STYLE	BASE: BASING	TYPE
25A6	PENTODE	25	0.3	HEATER	CLASS A AMPLIFIER[k]	160	120	18	33	6.5	2375	42		5000	2.2	Signal: 12.7 V. RMS				MT-8B	20	7 PIN OCTAL	7S	**25A6**
25A6GT	PENTODE	2.5	0.3	HEATER	CLASS A AMPLIFIER	160	120	18	33	6.5	2375	42		5000	2.2					T-9	35	7 PIN OCTAL	7S	**25A6GT**
25A7GT	DIODE PENTODE	25	0.3	HEATER	PENTODE UNIT AS CLASS A AMPLIFIER	100	100	15	20.5	4	1800	50		4500	0.77					T-9	35	8 PIN OCTAL	8F	**25A7GT**
25AC5GT	TRIODE	25	0.3	HEATER	POSITIVE BIAS AMPLIFIER	110		+15	45		3800	15.2	58	Grid Current: 7 Ma.						T-9	35	6 PIN OCTAL	6Q	**25AC5GT**
25B5	DOUBLE TRIODE	25	0.3	HEATER	CLASS A AMPLIFIER	110	110	0	45	7	2200	11.5		2000	2	Signal: 21 V. RMS				ST-12C	74	SMALL 6 PIN	6D	**25B5**
25B6G	PENTODE	25	0.3	HEATER	CLASS A AMPLIFIER	200 105	135 105	23 16	62 48	1.8 2	5000 4800	18 15.5		2500 1700	7.1 2.4					ST-14	77	7 PIN OCTAL	7S	**25B6G**
25B8GT	TRIODE PENTODE	25	0.15	HEATER	CLASS A AMPLIFIER	100 100	100	1 3	0.6 7.6	2	1500 2000	75 185	112 370							T-9	33	8 PIN OCTAL	8T	**25B8GT**
25BK5	PENTODE	25	0.3	HEATER	CLASS A AMPLIFIER	250	250	5	37	10	8500	100		6500	3.5					T-6½	9	MIN. 9 PIN	9BQ	**25BK5**
25BQ6GA	PENTODE	25	0.3	HEATER	HORIZONTAL DEFLECTION AMPLIFIER	250	150	22.5	55	2.1	5500	20								T-11	56	MED. OCTAL 7 PIN	6AM	**25BQ6GA**
25C6G	BEAM PENTODE	25	0.3	HEATER	CLASS A AMPLIFIER	135	135	13.5	58	3.5	7000	9.3		2000	3.6	Signal: 9.9 V. RMS				ST-14	77	7 PIN OCTAL	7S	**25C6G**
25CD6GA	BEAM PENTODE	25	0.6*	HEATER	HORIZONTAL DEFLECTION AMPLIFIER		170	[A]	92	15.5	7500		3.8	DC Power Supply Volt.: 350 V. Total Power Supply Volt.: 500 V.						ST-16	83	INT. OCTAL 6 PIN	5BT	**25CD6GA**
25CU6	PENTODE	25	0.3	HEATER	HORIZONTAL DEFLECTION AMPLIFIER	310	140		79	11.2				Plate Dissipation: 7 W. Grid #2 Dissipation: 1.57 W. Peak Plate Current: 270 mA.						T-12	59	INT. OCTAL 7 PIN	6AM	**25CU6**
25D8GT	DIODE TRIODE PENTODE	25	0.15	HEATER	CLASS A AMPLIFIER	100 100	100	1 3	0.5 8.5	2.7	1100 1900	91 200	100	Cutoff: 2 μmhos @ −35 V.						T-9	43	8 PIN OCTAL	8AF	**25D8GT**

* Heater warm-up time: 11 seconds.

[A] Bias obtained thru 300 ohm cathode resistor.

TUNG-SOL ELECTRIC INC., ELECTRON TUBE DIVISION, BLOOMFIELD, NEW JERSEY, U.S.A. APRIL 1, 1962 PLATE #6444

TUNG-SOL

TUBES NOT RECOMMENDED FOR NEW EQUIPMENT DESIGN

TYPE	DESCRIPTION	FILAMENT VOLTS	FILAMENT AMPERES	TYPE OF CATHODE	APPLICATION	TYPICAL OPERATING CONDITIONS AND CHARACTERISTICS: PLATE VOLTS	SCREEN GRID VOLTS	CONTROL GRID VOLTS (NEG.)	PLATE CURRENT MA.	SCREEN CURRENT MA.	TRANS-CONDUCTANCE μMHOS	PLATE RESISTANCE KILOHMS	AMPLIFICATION FACTOR	LOAD RESISTANCE OHMS	POWER OUTPUT WATTS	RECTIFIER CONDENSER INPUT: MAX. A.C. RMS VOLTS PER PLATE	RECTIFIER CONDENSER INPUT: MAX. PEAK INVERSE VOLTS	RECTIFIER CONDENSER INPUT: MAX. D.C. OUTPUT MA.	BULB: STYLE	BULB: OUTLINE NO.	BASE: STYLE	BASE: BASING	TYPE
25DQ6	BEAM PENTODE	25.0	0.3	HEATER	HORIZONTAL DEFLECTION AMPLIFIER	Grid #1 Voltage: −28 V. DC Grid #2 Voltage: 140 V. Peak Positive Plate Voltage: 3440 V. Grid #1 Input Voltage: Peak To Peak Sawtooth: 74 V. Negative Peaking: 18 V. DC Plate Current: 83 mA. DC Grid #2 Current: 12.3 mA. Plate Dissipation: 5.1 Watts													T-12	59	SHORT 7 PIN OCTAL	6AM	**25DQ6**
25F5	BEAM PENTODE	25.0	0.15	HEATER	CLASS A AMPLIFIER B C	110 110	110 110	7.5 8.0	37 78	7.0 13.6	5800	16.0		2500 4500	1.2 2.9				T-5½	5	MIN. 7 PIN	7CV	**25F5**
25N6G	DOUBLE TRIODE	25	0.3	HEATER	CLASS A AMPLIFIER	110	110	0	45	7	2200	11.5	25	2000	2				ST-12C	73	7 PIN OCTAL	7W	**25N6G**
25W4GT	DIODE	25	0.3	HEATER	HALF-WAVE RECTIFIER	Peak I_b-600 mA. max. Hot-Switching Transient I_b for 0.2 sec. max.- 3.5 amp. max.										350	1250	125	T-9	35	6 PIN OCTAL	4CG	**25W4GT**
25X6GT	DOUBLE DIODE	25	0.15	HEATER	HALF-WAVE RECTIFIER											125		60	T-9	35	7 PIN OCTAL	7Q	**25X6GT**
25Y4GT	DIODE	25	0.15	HEATER	HALF-WAVE RECTIFIER	Tube Voltage Drop at 125 Ma.: 18 V. Max. Peak Plate Current: 250 Ma.										125		75	T-9	32	6 PIN OCTAL	5AA	**25Y4GT**
25Z4	DIODE	25	0.3	HEATER	HALF-WAVE RECTIFIER	Max. Peak Plate Current: 750 Ma. Tube Voltage Drop at 125 mA.: 12 V.										125		125	T-9	32	6 PIN OCTAL	5AA	**25Z4**
25Z5	DOUBLE DIODE	25	0.3	HEATER	HALF-WAVE RECTIFIER VOLTAGE DOUBLER	DC Current for Each Section										235	700	75	ST-12	70	SMALL 6 PIN	6E	**25Z5**
25Z6	DOUBLE DIODE	25	0.3	HEATER	HALF-WAVE RECTIFIER VOLTAGE DOUBLER	DC Current for Each Section										235	700	75	MT-8B	20	7 PIN OCTAL	7Q	**25Z6**
26	TRIODE	1.5	1.05	FIL.	CLASS A AMPLIFIER	180		14.5	6.2		1150	7.3	8.3						ST-14	78	MED. 4 PIN	4D	**26**
26A7GT	DOUBLE PENTODE	26.5	0.6	HEATER	CLASS A AMPLIFIER	26.5	26.5	4.5	20	1.9	5700			1500	0.18				T-9	46	8 PIN OCTAL	8BU	**26A7GT**
26BK6	DOUBLE DIODE TRIODE	26.5	0.07	HEATER	CLASS A AMPLIFIER	250		2	1.2		1600	62.5	100						T-5½	5	MIN. 7 PIN	7BT	**26BK6**
26CG6	PENTODE	26.5	0.07	HEATER	CLASS A AMPLIFIER	250	150	8	9	2.3	2000	720		Cutoff: 40 μmhos @ −24 V.					T-5½	4	MIN. 7 PIN	7BK	**26CG6**
27	TRIODE	2.5	1.75	HEATER	CLASS A AMPLIFIER	250 90		21 6	5.2 2.7		975 820	9.25 11.0	9 9						ST-12	70	SMALL 5 PIN	5A	**27**

[B] Single tube. [C] Two tubes in push-pull.

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28Z5-36

TYPE	DESCRIPTION	FILAMENT VOLTS	FILAMENT AMPERES	FILAMENT TYPE OF CATHODE	APPLICATION	TYPICAL OPERATING CONDITIONS AND CHARACTERISTICS: PLATE VOLTS	SCREEN GRID VOLTS	CONTROL GRID VOLTS (NEG.)	PLATE CURRENT MA.	SCREEN CURRENT MA.	TRANS-CONDUCTANCE MICROMHOS	PLATE RESISTANCE MEGOHMS	AMPLIFICATION FACTOR	LOAD RESISTANCE OHMS	POWER OUTPUT WATTS	RECTIFIER CONDENSER INPUT: MAX. A.C. RMS VOLTS PER PLATE	RECTIFIER CONDENSER INPUT: MAX. PEAK INVERSE VOLTS	RECTIFIER CONDENSER INPUT: MAX. D.C. OUTPUT MA.	BULB STYLE	BULB OUTLINE NO.	BASE STYLE	BASE BASING	TYPE
28Z5	DOUBLE DIODE	28	0.24	HEATER	FULL-WAVE RECTIFIER	Peak Plate Current per Plate: 300 Ma.										450	1250	100	T-9	30	8 PIN LOC.	6BJ	**28Z5**
30	TRIODE	2	0.06	DC FIL.	CLASS A AMPLIFIER	180		13.5	3.1		900	10.3	9.3						ST-12	70	SMALL 4 PIN	4D	**30**
31	TRIODE	2	0.13	DC FIL.	CLASS A AMPLIFIER	180 135		30 22.5	12.3 8		1050 925	3.6 4.1	3.8 3.8	5700 7000	0.375 0.185				ST-12	70	SMALL 4 PIN	4D	**31**
32	TETRODE	2	0.06	FIL.	CLASS A AMPLIFIER	180	67.5	3	1.7	0.4	650	1200	780						ST-14	79	MED. 4 PIN	4K	**32**
32L7GT	DIODE BEAM PENTODE	32.5	0.3	HEATER	CLASS A AMPLIFIER	90	90	5	38	3	6000	15	90	2600	0.8				T-9	35	8 PIN OCTAL	8Z	**32L7GT**
33	PENTODE	2	0.26	DC FIL.	CLASS A AMPLIFIER	180 135	180 135	18 13.5	22 14.5	5 3	1700 1450	55 50	90 70	6000 7000	1.4 0.7				ST-14	78	MED. 5 PIN	5K	**33**
34	PENTODE	2	0.06	DC FIL.	CLASS A AMPLIFIER	180 135	67.5 67.5	3 3	2.8 2.8	1 1	620 600	1000 600	620 360	Cutoff: 15 μmhos @ −22.5 V.					ST-14	79	MED. 4 PIN	4M	**34**
35	TETRODE	2.5	1.75	HEATER	CLASS A AMPLIFIER	250	90	3 min.	6.5	2.5	1050	400	420	Cutoff: 15 μmhos @ −40 V.					ST-14	79	MED. 5 PIN	5E	**35**
35A5	BEAM PENTODE	35	0.15	HEATER	CLASS A AMPLIFIER	200 110	125 110	0 7.5	43[F] 40[F]	2.0[F] 3.0[F]	6100 5800	34 14		5000 2500	3.0 1.5	Signal: 5.3 V. RMS			T-9	30	8 PIN LOC.	6AA	**35A5**
35Y4	DIODE	35	0.15	HEATER	HALF-WAVE RECTIFIER	Peak Plate Current per Plate: 600 mA.										235	700	100	T-9	25	8 PIN LOC.	5AL	**35Y4**
35Z3	DIODE	35	0.15	HEATER	HALF-WAVE RECTIFIER											235	700	100	T-9	30	8 PIN LOC.	4Z	**35Z3**
35Z4GT	DIODE	35	0.15	HEATER	HALF-WAVE RECTIFIER											235	700	100	T-9	35	6 PIN OCTAL	5AA	**35Z4GT**
35Z6G	DOUBLE DIODE	35	0.3	HEATER	HALF-WAVE RECTIFIER	DC Current for Each Section										235	700	110	ST-14	77	7 PIN OCTAL	7Q	**35Z6G**
36	TETRODE	6.3	0.3	HEATER	CLASS A AMPLIFIER	250	90	3	3.2	1.7	1080	550	595						ST-12	72	SMALL 5 PIN	5E	**36**

[F] Zero signal.

		FILAMENT				TYPICAL OPERATING CONDITIONS AND CHARACTERISTICS												BULB		BASE		
TYPE	DESCRIPTION	VOLTS	AMPERES	TYPE OF CATHODE	APPLICATION	PLATE VOLTS	SCREEN GRID VOLTS	CONTROL GRID VOLTS (NEG.)	PLATE CURRENT MA.	SCREEN CURRENT MA.	TRANS. CONDUCTANCE μMHOS	PLATE RESISTANCE MEGOHMS	AMPLIFICATION FACTOR	LOAD RESISTANCE OHMS	POWER OUTPUT WATTS	RECTIFIER CONDENSER INPUT: MAX. A.C. RMS VOLTS PER PLATE	RECTIFIER CONDENSER INPUT: MAX. PEAK INVERSE VOLTS	RECTIFIER CONDENSER INPUT: MAX. D.C. OUTPUT MA.	STYLE	OUTLINE NO.	STYLE	BASING	TYPE
37	TRIODE	6.3	0.3	HEATER	CLASS A AMPLIFIER	250		18	7.5		1100	8.4	9.2						ST-12	70	SMALL 5 PIN	5A	**37**
38	PENTODE	6.3	0.3	HEATER	CLASS A AMPLIFIER	250	250	25	22	3.8	1200	100	120	10,000	2.5				ST-12	72	SMALL 5 PIN	5F	**38**
39/44	PENTODE	6.3	0.3	HEATER	CLASS A AMPLIFIER	250	90	3	5.8	1.4	1050	Cutoff: 2 μmhos @ −42.5 V.							ST-12	72	SMALL 5 PIN	5F	**39/44**
40	TRIODE	5	0.25	DC FIL.	CLASS A AMPLIFIER	180		3	0.2		200	150	30	Load Resistance: 0.25 Megohm					ST-14	78	MED. 4 PIN	4D	**40**
41	PENTODE	6.3	0.4	HEATER	CLASS A AMPLIFIER	315	250	21	25.5[F]	4.0[F]	2100	110		9000	4.5	Signal: 12.7 V. RMS			ST-12	70	SMALL 6 PIN	6B	**41**
42	PENTODE	6.3	0.7	HEATER	CLASS A AMPLIFIER	285 250	285 250	20 16.5	38 34	7 6.5	2550 2500	78 80		7000 7000	4.8 3.2	Signal: 11.6 V. RMS			ST-14	78	MED. 6 PIN	6B	**42**
43	PENTODE	25	0.3	HEATER	CLASS A AMPLIFIER	160 95	120 95	18 15	33 20	6.5 4	2375 2000	42 45		5000 4500	2.2 0.9	Signal: 12.7 V. RMS Signal: 10.6 V. RMS			ST-14	78	MED. 6 PIN	6B	**43**
45	TRIODE	2.5	1.5	FIL.	CLASS A AMPLIFIER	275 180		56 31.5	36 31		2050 2125	1.70 1.65	3.5 3.5	4600 2700	2.0 .825				ST-14	78	MED. 4 PIN	4D	**45**
45Z3	DIODE	45	0.075	HEATER	HALF-WAVE RECTIFIER											117	350	65	T-5½	4	MIN. 7 PIN	5AM	**45Z3**
45Z5GT	DIODE	45	0.15	HEATER	HALF-WAVE RECTIFIER											235	700	60	T-9	35	6 PIN OCTAL	6AD	**45Z5GT**
46	TETRODE	2.5	1.75	FIL.	CLASS A AMPLIFIER [D]	250		33	22		2350	2.38	5.6	6400	1.25	Grid bias measured from filament center			ST-16	84	MED. 5 PIN	5C	**46**
					CLASS B AMPLIFIER [E]	400		0	12[F]	Current and output for 2 tubes				5800	20	Load is plate-to-plate							
47	PENTODE	2.5	1.75	FIL.	CLASS A AMPLIFIER	250	250	16.5	31	6	2500	60	150	7000	2.7				ST-16	84	MED. 5 PIN	5B	**47**
48	TETRODE	30	0.4	DC HEATER	CLASS A AMPLIFIER	125	100	20	56	9.5	3900			1500	2.5				ST-16	84	MED. 6 PIN	6A	**48**

[D] Grid tied to plate. [F] Zero signal. [E] Two grids tied together.

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TYPE	DESCRIPTION	FILAMENT VOLTS	FILAMENT AMPERES	TYPE OF CATHODE	APPLICATION	TYPICAL OPERATING CONDITIONS AND CHARACTERISTICS: PLATE VOLTS	SCREEN GRID VOLTS	CONTROL GRID VOLTS (NEG.)	PLATE CURRENT MA.	SCREEN CURRENT MA.	TRANS-CONDUCTANCE MMHOS	PLATE RESISTANCE MEGOHMS	AMPLIFICATION FACTOR	LOAD RESISTANCE OHMS	POWER OUTPUT WATTS	RECTIFIER CONDENSER INPUT: MAX. A.C. RMS VOLTS PER PLATE	MAX. PEAK INVERSE VOLTS	MAX. D.C. OUTPUT MA.	BULB: STYLE	OUTLINE NO.	BASE: STYLE	BASING	TYPE
49	TETRODE	2	0.12	FIL.	CLASS A AMPLIFIER	135		20	6		1125	4.175	4.7	11,000	0.17				ST-14	78	MED. 5 PIN	5C	**49**
50	TRIODE	7.5	1.25	FIL.	CLASS A AMPLIFIER	450		84	55		2100	1.8	3.8	4350	4.6				ST-16	89	MED. 4 PIN	4D	**50**
50A5	BEAM PENTODE	50	0.15	HEATER	CLASS A AMPLIFIER	200 110	125 110	0 7.5	47 50	8.5 10	8000 8000	28 13		4000 2000	3.8 2.1				T-9	30	8 PIN LOC.	6AA	**50A5**
50AX6G	DOUBLE DIODE	50	0.3	HEATER	FULL-WAVE RECTIFIER											350	1250		ST-14	77	7 PIN OCTAL	7Q	**50AX6G**
50BK5	BEAM PENTODE	50	0.15	HEATER	CLASS A AMPLIFIER	110	110	7.5	49[F]	3.5[F]	8500	100		6500	3.5				T-6½	9	MIN. 9 PIN	9BQ	**50BK5**
50C6G	BEAM PENTODE	50	0.15	HEATER	CLASS A AMPLIFIER	200	135	14	61	2.2	7100	18.3		2600	6	Signal: 10 V. RMS			ST-14	77	7 PIN OCTAL	7S	**50C6G**
50X6	DOUBLE DIODE	50	0.15	HEATER	HALF-WAVE RECTIFIER											235		75	T-9	30	8 PIN LOC.	7AJ	**50X6**
50Y7GT	DOUBLE DIODE	50	0.15	HEATER	VOLTAGE DOUBLER H-W RECTIFIER SINGLE SECTION	With plate current passing through pilot lamp and tapped heater section										117 235		65 65	T-9	35	8 PIN OCTAL	8AN	**50Y7GT**
50Z7G	DOUBLE DIODE	50	0.15	HEATER	HALF-WAVE RECTIFIER											235		65	ST-12	69	8 PIN OCTAL	8AN	**50Z7G**
53	DOUBLE TRIODE	2.5	2	HEATER	CLASS B AMPLIFIER	300		0	35[F]	Current and output for both sections				8000	10	Load is plate-to-plate			ST-14	78	MED. 7 PIN	7B	**53**
					CLASS A AMPLIFIER	300		6	7		3200	11	35	Both sections in parallel									
55	DOUBLE DIODE TRIODE	2.5	1.0	HEATER	CLASS A AMPLIFIER	250		20	8		1100	7.5	8.3	20,000	0.35				ST-12	72	SMALL 6 PIN	6G	**55**
55S	DOUBLE DIODE TRIODE	2.5	1.0	HEATER	CLASS A AMPLIFIER	250		20	8		1100	7.5	8.3	20,000	0.35				ST-12	72	SMALL 6 PIN	6G	**55S**
56	TRIODE	2.5	1.0	HEATER	CLASS A AMPLIFIER	250		13.5	5		1450	9.5	13.8						ST-12	70	SMALL 5 PIN	5A	**56**
56S	TRIODE	2.5	1.0	HEATER	CLASS A AMPLIFIER	250		13.5	5		1450	9.5	13.8						ST-12	70	SMALL 5 PIN	5A	**56S**

[F] Zero signal.

TUNG-SOL ELECTRIC INC., ELECTRON TUBE DIVISION, BLOOMFIELD, NEW JERSEY, U.S.A.-APRIL 1, 1962 PLATE #6446

TYPE	DESCRIPTION	FILAMENT VOLTS	FILAMENT AMPERES	FILAMENT TYPE OF CATHODE	APPLICATION	TYPICAL OPERATING CONDITIONS AND CHARACTERISTICS: PLATE VOLTS	SCREEN GRID VOLTS	CONTROL GRID VOLTS (NEG.)	PLATE CURRENT MA.	SCREEN CURRENT MA.	TRANSCONDUCTANCE μMHOS	PLATE RESISTANCE MEGOHMS	AMPLIFICATION FACTOR	LOAD RESISTANCE OHMS	POWER OUTPUT WATTS	RECTIFIER CONDENSER INPUT: MAX. A.C. RMS VOLTS PER PLATE	RECTIFIER CONDENSER INPUT: MAX. PEAK INVERSE VOLTS	RECTIFIER CONDENSER INPUT: MAX. D.C. OUTPUT MA.	BULB: STYLE	BULB: OUTLINE NO.	BASE: STYLE	BASE: BASING	TYPE
57	PENTODE	2.5	1.0	HEATER	CLASS A AMPLIFIER	250	100	3	2	0.5	1225	1000							ST-12C	76	SMALL 6 PIN	6F	**57**
58	PENTODE	2.5	1.0	HEATER	CLASS A AMPLIFIER	250	100	3	8.2	2	1600	800	1280	Cutoff: 2 μmhos @ −50 V.					ST-12C	76	SMALL 6 PIN	6F	**58**
59	PENTODE	2.5	2.0	HEATER	CLASS A AMPLIFIER	250	250	18	35	9	2500	40	100	6000	3				ST-16	84	MED. 7 PIN	7A	**59**
70A7GT	DIODE PENTODE	70	0.15	HEATER	PENTODE CLASS A AMPLIFIER	110	110	7.5	40	3	5800		80	2500	1.5				T-9	35	8 PIN OCTAL	8AB	**70A7GT**
71A	TRIODE	5	0.25	FIL.	CLASS A AMPLIFIER	180		40.5	20		1700	1.75	3	4800	0.79				ST-14	78	MED. 4 PIN	4D	**71A**
75	DOUBLE DIODE TRIODE	6.3	0.3	HEATER	CLASS A AMPLIFIER	250		2	0.9		1100	91	100						ST-12	72	SMALL 6 PIN	6G	**75**
75S	DOUBLE DIODE TRIODE	6.3	0.3	HEATER	CLASS A AMPLIFIER	250		2	0.9		1100	91	100						ST-12	72	SMALL 6 PIN	6G	**75S**
76	TRIODE	6.3	0.3	HEATER	CLASS A AMPLIFIER	250 100		13.5 2	5 2.5		1450 1150	9.5 12	13.8						ST-12	70	SMALL 5 PIN	5A	**76**
77	PENTODE	6.3	0.3	HEATER	CLASS A AMPLIFIER	250	100	3	2.3	0.5	1250	1000							ST-12	72	SMALL 6 PIN	6F	**77**
78	PENTODE	6.3	0.3	HEATER	CLASS A AMPLIFIER	250 90	125 90	3 3	10.5 5.4	2.6 1.3	1650 1275	600 300	Cutoff: 2 μmhos @ −42.5 V. Cutoff: 2 μmhos @ −38.5 V.						ST-12	72	SMALL 6 PIN	6F	**78**
79	DOUBLE TRIODE	6.3	0.6	HEATER	CLASS B AMPLIFIER	250		0	10.6					14,000	8				ST-12	72	SMALL 6 PIN	6H	**79**
80	DOUBLE DIODE	5	2	FIL.	FULL-WAVE RECTIFIER											350	1400	125	ST-14	78	MED. 4 PIN	4C	**80**
81	DIODE	7.5	1.25	FIL.	HALF-WAVE RECTIFIER											700	2000	85	ST-16	89	MED. 4 PIN	4B	**81**
82	MERCURY FILLED DOUBLE DIODE	2.5	3	FIL.	FULL-WAVE RECTIFIER											450	1550	115	ST-14	78	MED. 4 PIN	4C	**82**
83V	DOUBLE DIODE	5	2	HEATER	FULL-WAVE RECTIFIER											375	1400	175	ST-14	78	MED. 4 PIN	4AD	**83V**
84/6Z4	DOUBLE DIODE	6.3	0.5	HEATER	FULL-WAVE RECTIFIER											325	1250	60	ST-12	70	SMALL 5 PIN	5D	**84/6Z4**

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85-713A

TYPE	DESCRIPTION	FILAMENT VOLTS	FILAMENT AMPERES	FILAMENT TYPE OF CATHODE	APPLICATION	TYPICAL OPERATING CONDITIONS AND CHARACTERISTICS: PLATE VOLTS	SCREEN GRID VOLTS	CONTROL GRID VOLTS (NEG.)	PLATE CURRENT MA.	SCREEN CURRENT MA.	TRANSCONDUCTANCE MMHOS	PLATE RESISTANCE KILOHMS	AMPLIFICATION FACTOR	LOAD RESISTANCE OHMS	POWER OUTPUT WATTS	RECTIFIER CONDENSER INPUT: MAX. A.C. RMS VOLTS PER PLATE	MAX. PEAK INVERSE VOLTS	MAX. D.C. OUTPUT MA.	BULB: STYLE	OUTLINE NO.	BASE: STYLE	BASING	TYPE
85	DOUBLE DIODE TRIODE	6.3	0.3	HEATER	CLASS A AMPLIFIER	250		20	8		1100	7.5	8.3	20,000	0.35				ST-12	72	SMALL 6 PIN	6G	85
89	PENTODE	6.3	0.4	HEATER	CLASS A AMPLIFIER	250	250	25	32	5.5	1800	70	125	6750	3.4				ST-12	72	SMALL 6 PIN	6F	89
117L7/ M7GT	DIODE BEAM PENTODE	117	0.09	HEATER	BEAM POWER UNIT AS CLASS A AMPLIFIER	105	105	5.2	43	4	5300	17		4000	0.85				T-9	41	8 PIN OCTAL	8AO	117L7/ M7GT
					HALF-WAVE RECTIFIER											117	350	75					
117N7GT	DIODE BEAM PENTODE	117	0.09	HEATER	BEAM POWER UNIT AS CLASS A AMPLIFIER	100	100	6	51	5	7000	16		3000	1.2				T-9	41	8 PIN OCTAL	8AV	117N7GT
					HALF-WAVE RECTIFIER											117	350	75					
117P7GT	DIODE BEAM PENTODE	117	0.09	HEATER	PENTODE CLASS A AMPLIFIER	105	105	5.2	43	4	5300	17		4000	0.85				T-9	41	8 PIN OCTAL	8AV	117P7GT
117Z4GT	DIODE	117	0.04	HEATER	HALF-WAVE RECTIFIER											117	350	90	T-9	28	6 PIN OCTAL	5AA	117Z4GT
117Z6GT	DOUBLE DIODE	117	0.075	HEATER	HALF-WAVE RECTIFIER	DC current for each section										235	700	60	T-9	35	7 PIN OCTAL	7Q	117Z6GT
183	TRIODE	5	1.25	FIL.	CLASS A AMPLIFIER	250		60	25		1800	1.8	3.2	4500	2				ST-14	78	MED. 4 PIN	4D	183
316A	TRIODE	2.0	3.65	FIL.	CLASS C AMPLIFIER	450		250	80						7.5				T-4½		ACORN		316A
485	TRIODE	3	1.3	HEATER	CLASS A AMPLIFIER	180		9	6		1350	9.3	12.5						ST-12	70	SMALL 5 PIN	5A	485
703A	TRIODE	1.15	4.5	FIL.	OSCILLATOR AMPLIFIER MIXER	350					2075								T-4½		ACORN		703A
705A	DIODE	5.0	5	FIL.	HALF-WAVE RECTIFIER	Max. Peak Inverse Plate Voltage: 35 Kv. Max. Avg. Rectified Plate Current: 100 Ma. Max. Peak Plate Current: 500 Ma. Voltage Drop (I_B = 365 Ma.): 300 V.													T-4½		ACORN		705A
713A	PENTODE	6.3	.175	HEATER	CLASS A AMPLIFIER	120	120	2	7.5	2.5	4000	250							T-4½		ACORN		713A

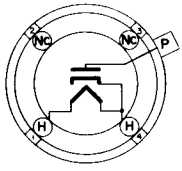
TUNG-SOL

TUBES NOT RECOMMENDED FOR NEW EQUIPMENT DESIGN

TUNG-SOL ELECTRIC INC., ELECTRON TUBE DIVISION, BLOOMFIELD, NEW JERSEY, U.S.A. APRIL 1, 1962 PLATE #6447

TYPE	DESCRIPTION	FILAMENT VOLTS	FILAMENT AMPERES	TYPE OF CATHODE	APPLICATION	TYPICAL OPERATING CONDITIONS AND CHARACTERISTICS: PLATE VOLTS	SCREEN GRID VOLTS	CONTROL GRID VOLTS (NEG.)	PLATE CURRENT MA.	SCREEN CURRENT MA.	TRANS-CONDUCTANCE MMHOS	PLATE RESISTANCE MEGOHMS	AMPLIFICATION FACTOR	LOAD RESISTANCE OHMS	POWER OUTPUT WATTS	RECTIFIER CONDENSER INPUT: MAX. A.C. RMS VOLTS PER PLATE	RECTIFIER CONDENSER INPUT: MAX. PEAK INVERSE VOLTS	RECTIFIER CONDENSER INPUT: MAX. D.C. OUTPUT MA.	BULB: STYLE	BULB: OUTLINE NO.	BASE: STYLE	BASE: BASING	TYPE
717A	PENTODE	6.3	.175	HEATER	CLASS A AMPLIFIER	120	120	2	7.5	2.5	4000	250							T-4½		ACORN		**717A**
950	PENTODE	2	0.12	DC FIL.	CLASS A AMPLIFIER	135	135	16.5	7	2	950	105	100	13,500	0.45				ST-14	78	MED. 5 PIN	5K	**950**
954	PENTODE	6.3	0.15	HEATER	CLASS A AMPLIFIER	90 250	90 100	3 3	1.2 2	0.5 0.7	1100 1400	1000 1500							T-4½		ACORN		**954**
955	TRIODE	6.3	0.15	HEATER	CLASS A AMPLIFIER	180 250		5 7	4.5 6.3		2000 2200	12.5 11.4	25 25						T-4½		ACORN		**955**
956	PENTODE	6.3	0.15	HEATER	CLASS A AMPLIFIER	250	100	3	6.7	2.7	1800	700							T-4½		ACORN		**956**
1625	BEAM PENTODE	12.6	0.45	HEATER	CLASS C AMPLIFIER	750	250	45	100	6					50				ST-16	89	MED. 7 PIN BAY.	5AZ	**1625**
1626	TRIODE	12.6	0.25	HEATER	CLASS C AMPLIFIER	250		32	25		2500	2.5							ST-12	70	8 PIN OCTAL	6Q	**1626**
1629	TRIODE INDICATOR	12.6	0.15	HEATER	TUNING INDICATOR	Plate: 250 V. thru 1 Meg. 0.24 Ma. Target: 250 V. 4 Ma.												Shadow Angle: 90° at Zero Bias 0° at −8 V. Bias	T-9	50	7 PIN OCTAL	7AL	**1629**
1654	DIODE	1.4	0.05	FIL.	HALF-WAVE RECTIFIER											2500	6	1	T-5½		MIN. 7 PIN		**1654**
9004	DIODE	6.3	0.15	HEATER	UHF DETECTOR	Max. AC Plate Voltage: 117 V. RMS Max. DC Output Current: 5 mA.													T-4½		ACORN	4BJ	**9004**
9005	DIODE	3.6	0.165	HEATER	UHF DETECTOR	Max. AC Plate Voltage: 117 V. RMS Max. DC Output Current: 1.0 mA.													T-4½		ACORN	5BG	**9005**
9006	DIODE	6.3	0.15	HEATER	DETECTOR RECTIFIER											270	750	5	T-5½	3	MIN. 7 PIN	6BH	**9006**
XXD	TWIN TRIODE	14.0	0.16	HEATER	CLASS A AMPLIFIER	250		10	9.0		2100	7.6	16						T-9	26	8 PIN LOC.	8AC	**XXD**
XXL	TRIODE	7.0	0.32	HEATER	CLASS A AMPLIFIER	100 250		0 8	10.0 8.0		3600 2300	7.0 8.7	25 20						T-9	26	8 PIN LOC.		**XXL**

TUNG-SOL



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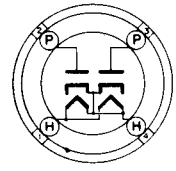

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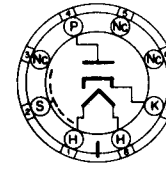

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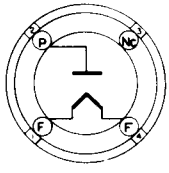

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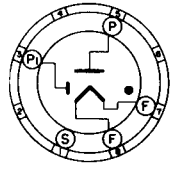

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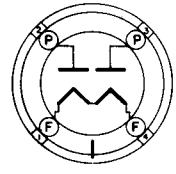

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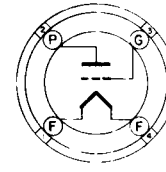

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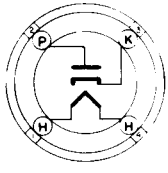

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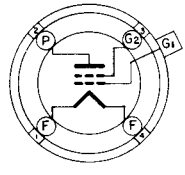

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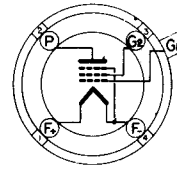

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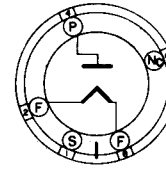

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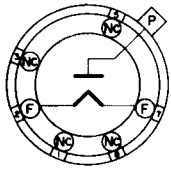

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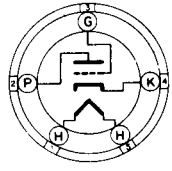

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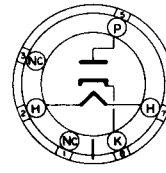

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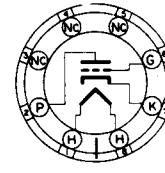

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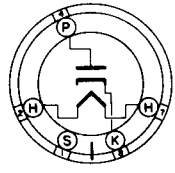

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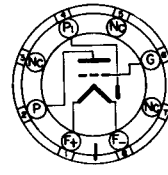

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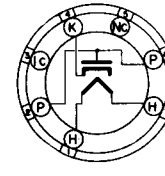
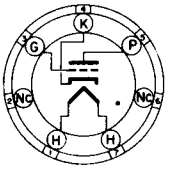


5AM

BASE DIAGRAMS FOR TUBES NOT RECOMMENDED FOR NEW EQUIPMENT DESIGN

TUNG-SOL



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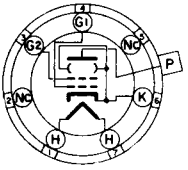

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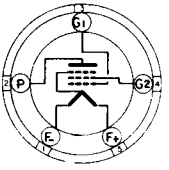

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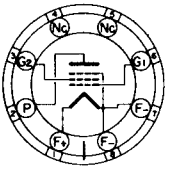

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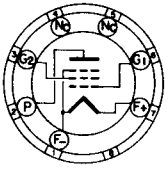

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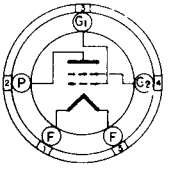

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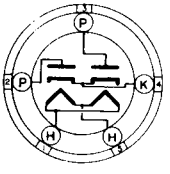

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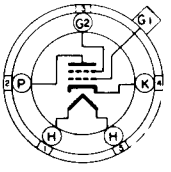

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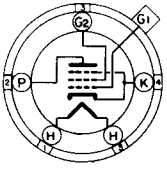

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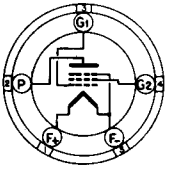

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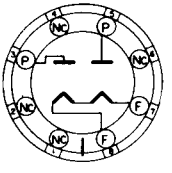

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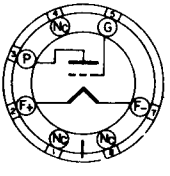

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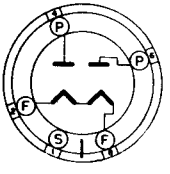

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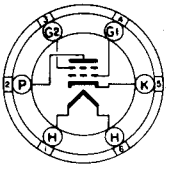

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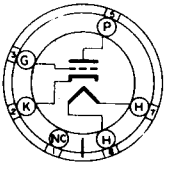

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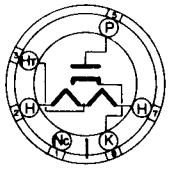

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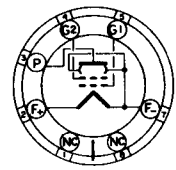

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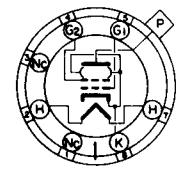

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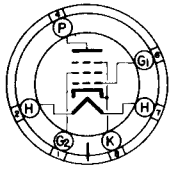

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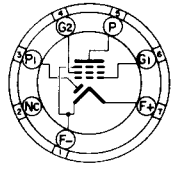

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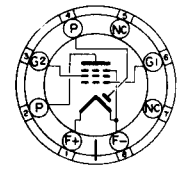

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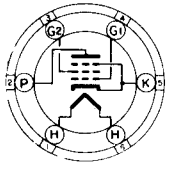

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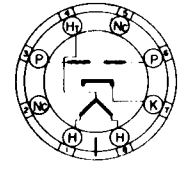

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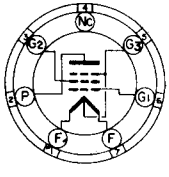

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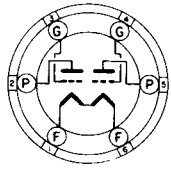

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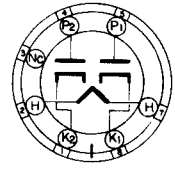

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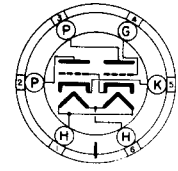

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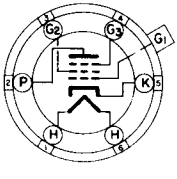

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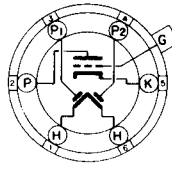

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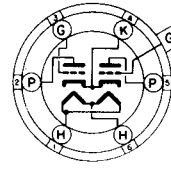

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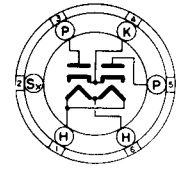

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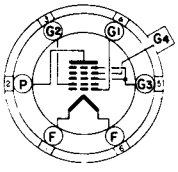

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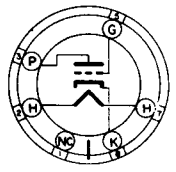

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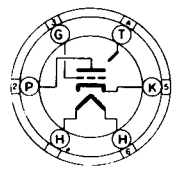

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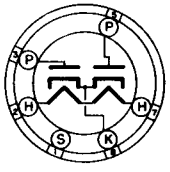

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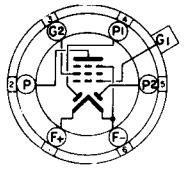

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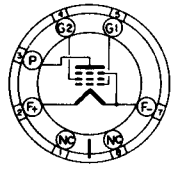

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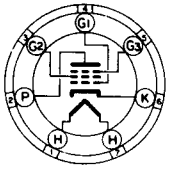

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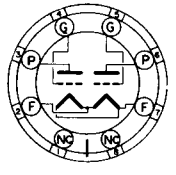

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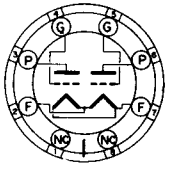

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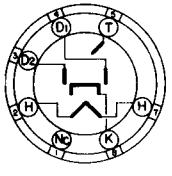

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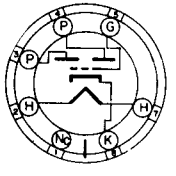

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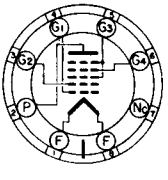

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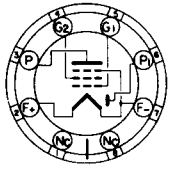

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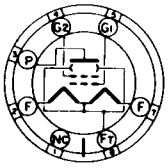

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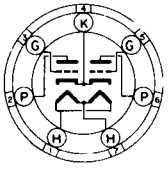

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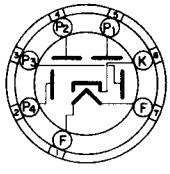

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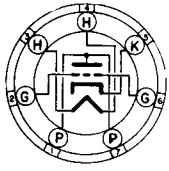

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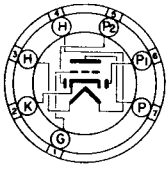

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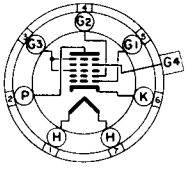

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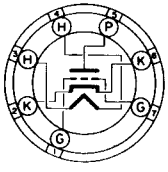

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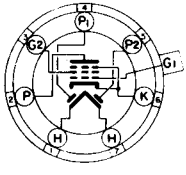

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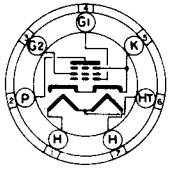

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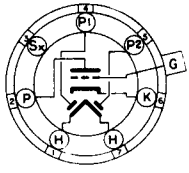

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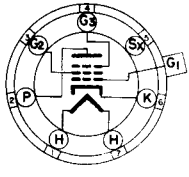

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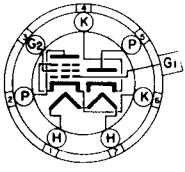

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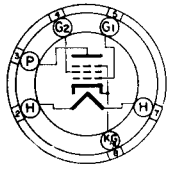

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TUNG-SOL

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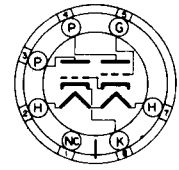

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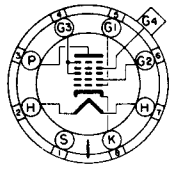

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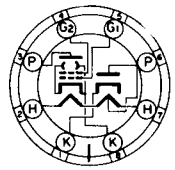

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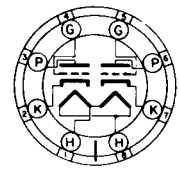

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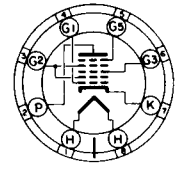

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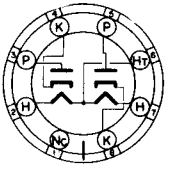

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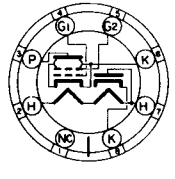

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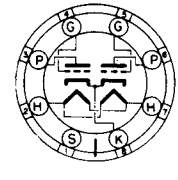

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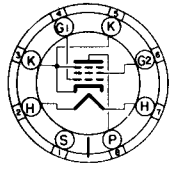

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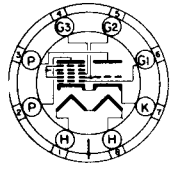

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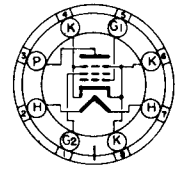

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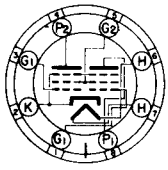

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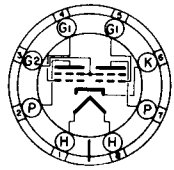

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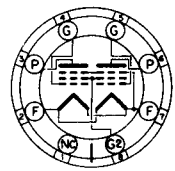

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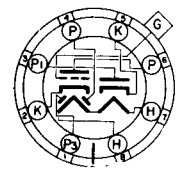

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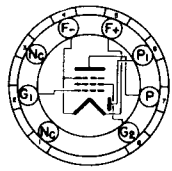

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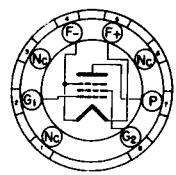

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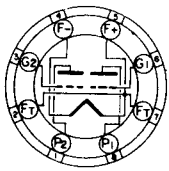

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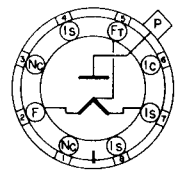

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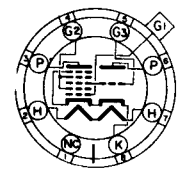

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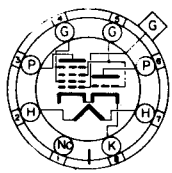

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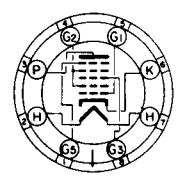

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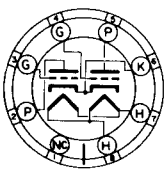

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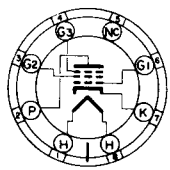

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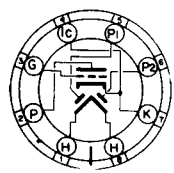

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TUNG-SOL

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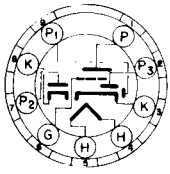

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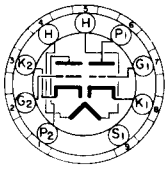

9AJ