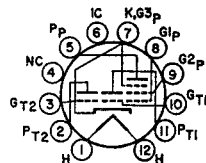


<b>22JR6</b>	Refer to type 6JR6.
<b>22JU6</b>	Refer to type 6JU6.
<b>22KM6</b>	Refer to type 6KM6.
<b>22KV6A</b>	Refer to type 6KV6A.
<b>23JS6A</b>	Refer to type 6JS6C.

**23Z9****DUAL TRIODE—  
BEAM POWER TUBE**

Duodecar type used in combined vertical-deflection-oscillator and vertical-deflection-amplifier applications in television receivers. Outlines section, 8B; requires duodecar 12-contact socket. Heater: volts (ac/dc), 23; amperes, 0.45; average warm-up time, 11 seconds; maximum heater-cathode volts,  $\pm 200$  peak, 100 average.

**12GZ****Class A<sub>1</sub> Amplifier**

CHARACTERISTICS	Triode		Beam Power		
	Unit No.1	Unit No.2	Unit	Unit	
Plate Voltage	150	150	45	120	volts
Grid-No.2 (Screen-Grid) Voltage	—	—	110	110	volts
Grid-No.1 (Control-Grid) Voltage	-2	-5	0	-8	volts
Amplification Factor	43	20	—	—	
Plate Resistance (Approx.)	11000	8500	—	11700	ohms
Transconductance	3900	2350	—	7100	$\mu$ mhos
Plate Current	5.4	5.5	122	46	mA
Grid-No.2 Current	—	—	16.5	3.5	mA
Grid-No.1 Voltage (Approx.) for plate current of 100 $\mu$ A	—	—	—	-25	volts
Grid Voltage (Approx.) for plate current of 10 $\mu$ A	-5.7	-11	—	—	volts

**Vertical-Deflection Oscillator and Amplifier**

For operation in a 525-line, 30-frame system

MAXIMUM RATINGS (Design-Maximum Values)	Triode	Triode	Beam Power	
	Unit No.1 Amplifier	Unit No.2 Oscillator	Unit Amplifier	
Plate Voltage	330	250	250	volts
Peak Positive-Pulse Plate Voltage#	—	—	2000	volts
Grid-No.2 Voltage	—	—	200	volts
Peak Negative-Pulse Grid-No.1 Voltage	—	400	150	volts
Grid Voltage, Positive-bias value	0	—	—	volts
Plate Dissipation	125	1	7	watts
Grid-No.2 Input	—	—	1.8	watts
Peak Cathode Current	—	—	245	mA
Average Cathode Current	—	—	70	mA
Peak Plate Current	—	70	—	mA
Average Plate Current	—	20	—	mA

**MAXIMUM CIRCUIT VALUES**

Grid-No.1-Circuit Resistance:			
For fixed-bias operation	0.5	1	1 megohm

# Pulse duration must not exceed 15% of a horizontal scanning cycle (10 microseconds).

<b>24A</b>	Refer to chart at end of section.
<b>24BF11</b>	Refer to type 6BF11.
<b>24JE6A</b>	Refer to chart at end of section. For replacement use type 24LQ6/24JE6C.
<b>24JE6C</b>	For replacement use type 24LQ6/24JE6C.
<b>24JZ8</b>	Refer to type 6JZ8.

For replacement use type 24LQ6/24JE6C.	<b>24LQ6</b>
Refer to type 6MJ6/6LQ6/6JE6C.	<b>24LQ6/24JE6C</b>
Refer to chart at end of section.	<b>24LZ6</b>
Refer to chart at end of section.	<b>25A6</b>
Refer to chart at end of section.	<b>25A6GT</b>
Refer to chart at end of section.	<b>25A7GT</b>
Refer to chart at end of section.	<b>25AC5GT</b>
Refer to type 6AV5GA.	<b>25AV5GA</b>
Refer to chart at end of section.	<b>25AX4GT</b>
Refer to chart at end of section.	<b>25B5</b>
Refer to chart at end of section.	<b>25B6G</b>
Refer to chart at end of section.	<b>25B8GT</b>
Refer to chart at end of section.	<b>25BK5</b>
Refer to chart at end of section.	<b>25BQ6GT</b>
Refer to type 6BQ6GTB/6CU6.	<b>25BQ6GTB/25CU6</b>
Refer to type 50C5.	<b>25C5</b>
Refer to chart at end of section.	<b>25C6G</b>
Refer to chart at end of section.	<b>25CA5</b>
For replacement use type 25C5.	
Refer to chart at end of section.	<b>25CD6GA</b>
Refer to type 6CD6GA.	<b>25CD6GB</b>
Refer to type 6CG3.	<b>25CG3</b>
Refer to chart at end of section.	<b>25CK3</b>
Refer to chart at end of section.	<b>25CM3</b>
Refer to type 12CT3.	<b>25CT3</b>
Refer to type 6BQ6GTB/6CU6.	<b>25CU6</b>
Refer to type 6DL3.	<b>25DL3</b>
Refer to chart at end of section.	<b>25DN6</b>
Refer to chart at end of section.	<b>25E5/PL36</b>
Refer to chart at end of section.	<b>25EC6</b>
Refer to type 6EH5.	<b>25EH5</b>
Refer to chart at end of section.	<b>25F5A</b>
Refer to chart at end of section.	<b>25HX5</b>
Refer to chart at end of section.	<b>25JQ6</b>
Refer to type 6JZ8.	<b>25JZ8</b>
Refer to chart at end of section.	<b>25L6</b>