 Type	Description ^Δ
PROJECTION KINESCOPIES ⊕	
5AZP4	5" electrostatic-focus, magnetic-deflection type. Provides an 8' by 6' picture. Integral flexible ultor lead. Small-shell duodecal 7-pin base.††
7NP4	Similar to 7WP4 except provides a 20' by 15' picture at a projection-throw distance of about 60'. [Ⓞ]
7WP4	7" electrostatic-focus, magnetic-deflection type. Intended for theater-television use. Provides a 20' by 15' picture at a projection-throw distance of about 80'. Medium cap. Small-shell diheptal 14-pin base. [Ⓞ]
MONOSCOPES	
2F21	5" electrostatic-focus, magnetic-deflection type with Indian Head Pattern. For supplying signal to test video performance of television transmitters and receivers. Two recessed small ball caps. Long medium-shell small 6-pin base.
1699	Custom-built type like the 2F21 except that its pattern is individually styled to customer requirements.

^Δ Unless otherwise specified, all of these types have electrostatic focus and deflection and a heater rating of 6.3 volts and 0.6 amp.

[⊕] For information on picture tubes used in television broadcast receivers, see RCA booklet 1275-H (RCA Receiving Tubes and Picture Tubes).

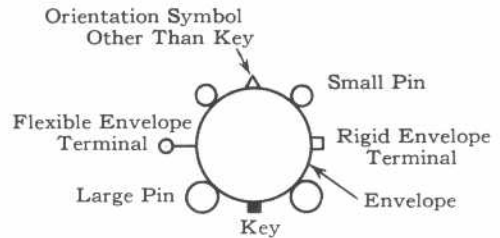
†† Heater rating: 6.3 volts, 0.6 amp.

[Ⓞ] Heater rating: 6.6 volts, 0.62 amp.

KEY TO BASE AND ENVELOPE CONNECTION DIAGRAMS

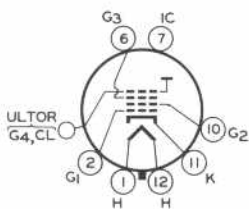
Diagrams show terminals viewed from the base end of the type

- BE = Backing Electrode
- C = External Conductive Coating
- C_b = Balancing Capacitance
- CL = Collector
- DJ = Deflecting Electrode
- DY = Dynode
- G = Grid
- H = Heater
- IC = Internal Connection
—Do Not Use
- K = Cathode
- NC = No Connection

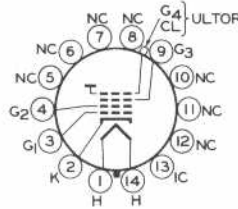


- P = Anode
- PC = Photocathode
- PJ = Pattern Electrode
- SHJ = Shading Electrode
- SJ = Signal Electrode
- SS = Storage Surface
- U = Unit
- = Gas-Type Tube

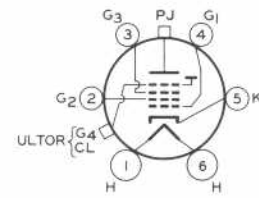
Lambda (λ) indicates that the primary characteristic of the element is designed to vary under the influence of light.



5AZP4



7NP4 7WP4



2F21 1699

Maximum Dimensions		Min. Useful Screen Diam. inches	Maximum Ratings♦♦					Operating Conditions					RCA Type
Overall Length inches	Envelope Diam. inches		Final High-Voltage Electrode		Grid-No. 3 Volts	Grid-No. 2 Volts	Grid-No. 1 Bias Volts†	Final High-Voltage Electrode Volts	Grid-No. 3 Voltage for Focus Approx.	Grid-No. 2 Volts	Maximum Grid-No. 1 Volts for Visual Cutoff‡	Deflection Factor volts dc/in.	
		Post-Ultor Volts	Ultor Volts	DJ1 & DJ2								DJ3 & DJ4	
PROJECTION KINESCOPIES ⊕													
12 ¹ / ₁₆	5 ¹ / ₈	4 ¹ / ₂	—	40000	9000	400	-150	36000	6650 to 8100	140 to 350	-93	Deflection Angle, 50° approx.	5AZP4
20 ¹ / ₈	7 ³ / ₁₆ ▲	5 x 3 ³ / ₄ ∅	—	80000‡	20000‡	600‡	-250‡	75000	15000 to 17000	400 to 600‡	-155‡	Deflection Angle, 35° approx.	7NP4
20 ¹ / ₁₆	7 ³ / ₁₆ ▲	5 x 3 ³ / ₄ ∅	—	80000‡	20000‡	600‡	-250‡	75000	15000 to 17000	400 to 600‡	-155‡	Deflection Angle, 35° approx.	7WP4
MONOSCOPIES													
12 ¹¹ / ₁₆	5 ¹ / ₁₆	2 ⁵ / ₁₆ x 3 ¹ / ₁₆ *	—	1500	Resolution Capability (with full scanning), 500 TV lines. Pattern-Electrode Signal Current (peak-to-peak), 0.3 to 0.7 μamp.								2F21
For additional data, refer to type 2F21.													1699

♦♦ Design-center values.

▲ The "ultor" is the electrode to which is applied the highest dc voltage for accelerating the electrons in the beam prior to its deflection.

† Positive bias value = 0 volts, positive peak value = 2 volts.

♦ Ultor volts.

‡ For visual cutoff of undeflected focused spot except as noted.

▲ Excluding side cap.

∅ Quality rectangle. Max. faceplate temperature = 100° C. Tube requires 40 cfm air flow to faceplate.

* Pattern size, approximate.

‡ Absolute value.

‡ Vary to cut off raster.

‡ Recommended operating value.

INDEX TO TYPES

Type	Page	Type	Page	Type	Page	Type	Page	Type	Page
1EP1	22	3WP2	24	7BP7-A	26	928	3	6326-A	19
1EP2	22	3WP11	24	7CP1	24	929	5	6328	7
1EP11	22	5ABP1	24	7CP4	28	930	3	6342	7
1P21	6	5ABP4	24	7MP7	26	931-A	6	6372	8
1P22	6	5ABP7	24	7MP14	26	934	5	6405/1640	4
1P28	6	5ABP11	24	7NP4	30	935	5	6472	8
1P29	3	5ADP1	24	7QP4	28	1640	See 6405	6474/1854	19
1P37	3	5AHP7	24	7TP4	28	1699	30	6499	21
1P39	4	5AHP7-A	24	7VP1	26	1850-A	18	6570	5
1P40	3	5AUP24	28	7WP4	30	1854	See 6474	6571	21
1P41	3	5AYP4	26	10KP7	26	1855	See 6896	6655	8
1P42	4	5AZP4	30	10SP4	28	2020	6	6694-A	11
2AP1-A	22	5BP1-A	24	12DP7-A	26	5581	4	6810-A	9
2BP1	22	5CP1-A	24	16ADP7	26	5582	4	6849	19
2BP11	22	5CP7-A	24	868	3	5583	4	6866	21
2F21	30	5CP11-A	24	902-A	26	5584	4	6896/1855	21
3AP1-A	22	5CP12	24	908-A	26	5652	5	6903	9
3BP1-A	22	5FP4-A	26	917	4	5653	5	6953	4
3JP1	22	5FP7-A	24	918	3	5819	7	6957	11
3JP7	22	5FP14	24	919	4	5820	18	7029	9
3KP1	22	5FP14-A	24	920	3	6198	18	7037	19
3KP4	22	5FP15-A	24	921	3	6198-A	18	7038	19
3KP7	22	5UP1	26	922	4	6032	19	7043	5
3KP11	22	5UP7	26	923	3	6032-A	19	7046	10
3RP1	24	5UP11	26	925	5	6199	7	7102	10
3RP1-A	24	5WP11	26	926	5	6217	7	7117	10
3RP4	24	5WP15	28	927	5	6326	18	7163	11
3WP1	24	5ZP16	28	928	3				