

RCA Type	Description△							
PROJECTIO	ON KINESCOPES ®							
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 dis- tance of about 80'. Medium cap. Small-shell diheptal 14-pin base.@							
MONOSCO	OPES							
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.							

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

†† Heater rating: 6.3 volts, 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: 6.6 volts, 0.62 amp.

KEY TO BASE AND ENVELOPE CONNECTION DIAGRAMS

Diagrams show terminals viewed from the base end of the type

Flexible Envelope

Terminal O

Large Pin

= Pattern Electrode

SHJ = Shading Electrode

Orientation Symbol

Other Than Key

BE = Backing Electrode

= External Conductive Coating

= Balancing Capaci-

tance CL = Collector

DJ = Deflecting Electrode

DY = Dynode

= Grid

= Heater

= Internal Connection

-Do Not Use

= Cathode

NC = No Connection

= Anode

= Photocathode

Key

= Signal Electrode = Storage Surface

Small Pin

Rigid Envelope

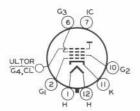
Terminal

Envelope

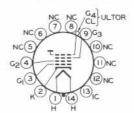
U = Unit

= Gas-Type Tube

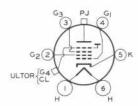
Lambda (λ) indicates that the primary characteristic of the element is designed to vary under the influence of light.



5AZP4



7NP4 7WP4



2F21 1699

RCA) Type	Operating Conditions						Maximum Ratings♦♦					Maximum		
	Deflection Factor		Maximum Grid-No. 1 Volts for	Grid-Nb. 2	Grid-No. 3 Voltage for Focus	Final High- Voltage Electrode				l High- Electrode	Final Voltage	Min. Useful	Dimensions	
	volts dc/in.						Grid-No. 1 Bias	Grid-No. 2	Grid-Nn 3	Ultor III	Post- Ultor	Screen Diam.	Envelope Diam,	Overall Length
	DJ3 & DJ4	DJ1 & DJ2	Visual Cutoff¢	Volts	Approx.	Volts	Volts †	Volts	Volts	Volts	Volts	inches	inches	inches
ESCOPES	TION KIN	PROJEC												
5AZP4	Deflection Angle, 50° approx.		-93	140 to 350	6650 to 8100	36000	-150	400	9000	40000		41/2	51/8	12%
7NP4	Deflection Angle, 35° approx.		-155§	400 to 600₩	15000 to 17000	75000	-250∳	600\$	20000\$	80000\$	-	5 x 3 3/4 0	73/16	201/8
7WP4		Deflection Angle, 35° approx.		400 to 600 H	15000 to 17000	75000	-250₺	600∔	20000\$	80000#	_	5 x 33/40	73/16	201/16
NOSCOPI	МО									đi				
2F21	Resolution Capability (with full scanning), 500 TV lines. Pattern-Electrode Signal Current (peak-to-peak), 0.3 to 0.7 µamp.									1500	_	25/16 x 31/16*	51/16	1211/16
1699		-	Đ		type 2F21	, refer to	nal data	additio	For					

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.

 \dagger 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.

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