August 4, 1958

TELEVISION PICTURE TUBE TYPE 17CYP4

90° Magnetic Deflection Rectangular Glass Aluminized Grav Filter Glass

Electrostatic Focus Lightweight Tube 4-1/2" Neck Length

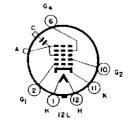
External Conductive Coating Spherical Faceplate 14-3/4" x 11-11/16" Picture No Ion Trap

Gray Filter Glass			
ELECTRICAL:			
Cathode	Coated Unipotential		
Heater:		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
Voltage (ac or dc)	6.3	Volts	
Current	0.6	Ampere	
Direct Interelectrode Capacitances:	0.0	Ampere	
Grid 1 to all other Electrodes	,	uuf	
Cathode to all other Electrodes	6	uuf	
	5	UUT	
External Conductive Coating:	1500		
Maximum	1500	uuf	
Minimum	1000	ouf	
Screen:			
Phosphor	Alu	minized P4	
Fluorescence		White	
Persistence	_	Short	
Focusing Method	E	lactrostatic	
Deflection Method		Magnetic	
Horizontal Angle, approx		85•	
Vertical Angle, approx.		68°	
Diagonal Angle, approx		90°	
No Ion Trap Gun	No Magn	et Required	
MECHANICAL:			
Mounting Position		Any	
Screen Dimensions:			
Screen Area, Min	155	Sq. Inches	
Height	1-11/16"	Min.	
Width	14-3/4"	Min.	
Diagonal	15-5/8"	Min.	
FaceplateSpherical la	nner & Out	ter Surfaces	
Glass	Ne	outral Filter	
Transmission		77%	
Bulb		J132½C	
Bulb Dimensions:			
Height	12-3	/4" ± 1/8"	
Width ,	15-5	/8" ± 1/8"	
Diagonal	16-9/	16" ± 1/8"	
Overall Length			
Net Weight, approx	10	Pounds	
Anode Terminal Reces	sed Small	Cavity Cap	
		TEC J1-21)	
Base Small		-	
		EC B6-203)	
	(2 - 1	50-500)	

MAXIMUM RATINGS:			
Design Center Values			
Anade Valtage*	16000	max.	Valts
Grid 4 Voltage:			
Positive Value	1000	max,	Volts
Negative Value ,	500	max.	Volts
Grid 2 Voltage	500	max.	Volts
Grid Voltage:			
Negative Bias Value	140	max.	Valts
Positive Peak Value,,.	0	max.	Volts
Peak Heater-Cathode Voltage:			
Heater Negative with Respect to Catho	de:		
During wormup period of 15 sec. max	410	max.	Yolts
After Equipment Warmup Period	180	max.	Volt
Heater Positive with Respect to			
Cathode	180	max.	Volt
TYPICAL OPERATING CONDITIONS:			
Anode Valtage	14000		Volts
Grid 4 Voltage	0 to +350		Volt
Grid 2 Voltage A	450		Volt
Grid 1 Voltage for Raster Cutoff	39 to 105		Volt
LIMITING CIRCUIT VALUES:			
Grid 1 Circuit Resistance	1.5	max.	Megohms
Grid 2 Circuit Resistance	10000		ohm:
Grid 4 Circuit Resistance • ,	10000		ohm:
* Brilliance and definition decrease with	-		-

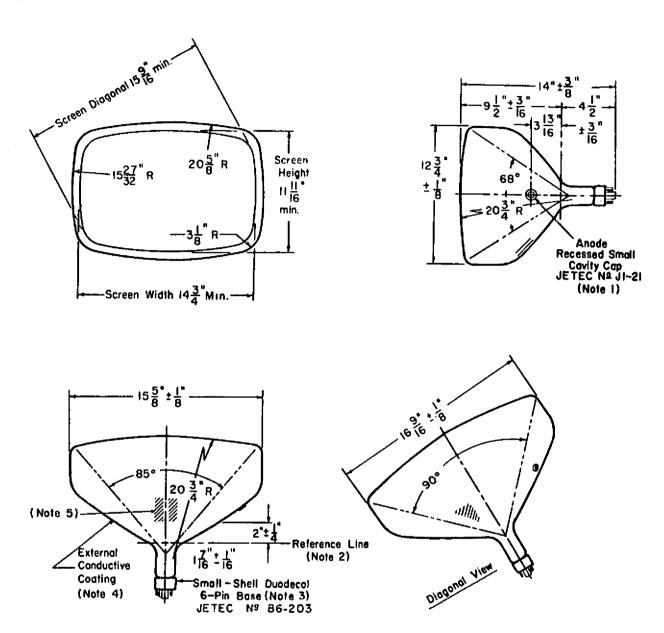
- In general, anode voltage should not be less than 12000 volts.
- ♦ Protective resistance in the Grid 2 and Grid 4 circuits is advisable to prevent damage to the tube.
- A It is recommended that Grid 2 be operated at a voltage greater than 300 valts since resolution is affected below this level.
- Raster size is 11-11/16" x 14-3/4".

Inasmuch as the tube rating permits operation at voltages as high as 17.6 kilovolts (absolute value), shielding of the tube for x-ray radiation may be needed whenever the operating conditions involve voltage in excess of 16 kilovolts.



Cathode Ray Tube Section

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- NOTE 1: The plane through the tube axis and the base pin No. 6 may vary from the plane through the tube axis and the bulb terminal by an angular talerance of ±30° measured about the tube axis. The bulb terminal is on the same side of the tube as pin No. 6.
- NOTE 2: With the tube neck inserted through the flored end of REFERENCE-Line Gauge (JETEC No. 116) and with the tube seated in the gauge, the reference line is determined by the intersection of the plane cc' (face of the flored end) of the gauge with the glass funnel.
- NOTE 3: The socket should not be mounted rigidly but it should be allowed to move freely and it should have flexible leads. The bottom circumference of the base shell will lie within a circle concentric with the bulb axis and having a diameter of 23/4".
- NOTE 4: External conductive coating must be grounded.
- NOTE 5: Contact area of external conductive coating 2" min. x 2" min. located 2" ±½" from Reference Line 90° counterclockwise from anode button as viewed from base end of tube.