19EZP4

Fleatmontatio

600 WEST JARVIS AVENUE

ELECTRICAL DATA

Focusing Method

CHICAGO 48, ILLINOIS

TELEPHONE MULBERRY 5-5000 TELETYPE 312-265-1293

## DESCRIPTION

19" Direct View Filled Rim Implosion Protection Rectangular Glass Envelope 114° Magnetic Deflection Gray Filter Glass Electrostatic Focus Aluminized Screen 6.3 Volts, 450 Ma. Heater External Conductive Coating No Ion Trap Cathode Drive Design Rim Provides Mounting Holes

SPECIAL CHARACTERISTICS-Anode Penetration Current 150 ua Max. (Note 4)

Focusing Method	Electrostatic
Deflection Angles (approx.)	
Horizontal	103 Degrees
Vertical	86 Degrees
Diagonal	114 Degrees
Direct Interelectrode Capacitances	
Cathode to all other electrodes (approx.)	5 uu <b>f</b>
Grid #1 to all other electrodes (approx.)	6 uuf
External Conductive Coating to Anode	1,500 max. uuf
(Including implosion protection hardware)	1,000 min. uuf
Heater Current at 6.3 Volts	450 + 5% Ma.
Heater Warm-up time	11 Seconds
Anntal T name	
OPTICAL DATA	فينفي فيوم احت
Phosphor Number	P4 Aluminized
Light Transmittance at Center (approx.)	49%
MECHANICAL DATA	
Overall Length	11 5/8" <u>+</u> 1/4"
Greatest Dimensions of Tube (Metal Rim)	
Diagonal	20 7/16" + 3/32"
Width	16 7/8" + 1/16"
Hoight	13 13/16" <u>+</u> 1/16"
Minimum Useful Screen Dimensions (projected)	19 19/ No 1 1/ No
Diagonal	17 9/16"
Horizontal Axis	15 1/8"
Vertical Axis	12"
Area	172 Sq. inches
Neck Length	4 3/8" + 1/8"
Bulb	jui9e1 - 1
Bulb Contact	J1-21
Base	B6-214
	7FA
Basing	15 lb. 8 oz.
Weight (approx.)	1) 10. 0 02.
Bulb Contact Alignment	. 30 Damesa
J1-21 contact aligns with pin position #7	P 30 Degrees

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RATINGS (Design Maximum System)

Unless otherwise specified, voltage values are positive and measured with respect to Grid #1

Maximum Anode Voltage	19,800 Volts
Minimum Anode Voltage	12,000 Volts
Maximum Grid #4 (Focusing Electrode) Voltage	+1100 -500
Maximum Grid #2 Voltage	55 Volts
Minimum Grid #2 Voltage	30 Volts
Cathode Voltage	100 Volts
Maximum Heater Voltage	7 Volts
Minhmum Heater Voltage	5.8 Volts
Maximum Heater-Cathode Voltage	•
Heater negative with respect to cathode	
During warm-up time not to exceed 15 sec.	410 Volts
After Equipment warm-up period	180 Volts
Heater positive with respect to cathode	180 Volts

## TYPICAL OPERATING CONDITIONS

## CATHODE DRIVE SERVICE

Unless otherwise specified, all voltage values are positive with respect to Grid #1

Anode Voltage		16,000 Volts DC
Grid #4 (Focusing Electrode)	voltage	250 Volts DC
	(Notes 2 and 3)	
Grid #2 Voltage		45 Volts DC
Cathode Voltage (Note 1)		35 to 50 Volts DC

MAXIMUM CIRCUIT VALUES

Maximum Grid #1 circuit resistance 1.5 Megohms

## NOTES

- 1. Visual extinction of focused raster.
- 2. With the combined Grid #1 bias voltage and video-signal voltage adjusted to give an anode current of 150 microamperes on a 15 1/8" X 12" pattern from RCA 2F21 Monoscope or equivalent.
- 3. Individual tubes will have satisfactory focus at some value between 0 and 500 volts.
- 4. This is the maximum beam current with 19,800 volts (design max.) applied to Anode, zero voltage applied to Gathode, Grid #1, and Grid #2, all other elements to have nominal voltages.

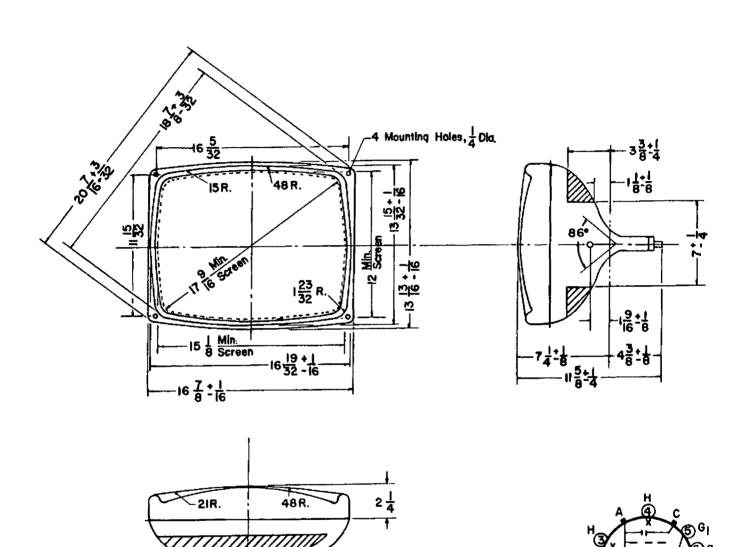
5600 WEST JARVIS AVENUE

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### NOTE

External conductive coating

> Ref. Line Note - I

- 1. Reference line as determined by plane C-C' of JEDEC. Reference Line Gauge no. 126.
- 2. Base pin no. 7 aligns with anode contact within 30°.

-JI-21

B6-214 Note-2