from RMA release #788
Oct. 10, 1949

SYLVANIA ELECTRIC

RMA Registration Data

TYPE 10MP4

CATHODE-RAY TUBE

The Type 10MP4 is a ten inch magnetic-focus and magnetic-deflection direct-view picture tube for television applications. This type has an external conductive coating, and it has an electron gun of triode construction to be used with an external ion-trap magnet.

GENERAL DATA

ELECTRICAL

Heater Voltage	6.3 volts
Heater Current	0.6 ± 10% amps
Focusing Method	magnetic
Deflecting Method	magnetic
Deflecting Angle (approx.)	52 degrees
Phosphor	#4
Fluorescence	white
Persistence	medium
Capacitance	
External Conductive Coating to Anode	
Maximum	2,500 μμf
Minimum	500 μμf

MECHANICAL

Overall Length	17 ± 3/8 inches
Greatest Diameter of Bulb	10 1/2 ± 1/16 inches
Minimum Useful Screen Diameter	9 1/8 inches
Bulb Contact	J1-21, Recessed Small Cavity Cap
Base	B5-57, Small Shell Duodecal 5-Pin
Basing	12G
Bulb Contact Alignment with Pin Position #3 (vacant)	±10 degrees

MAXIMUM RATINGS-- *Design Center Values*

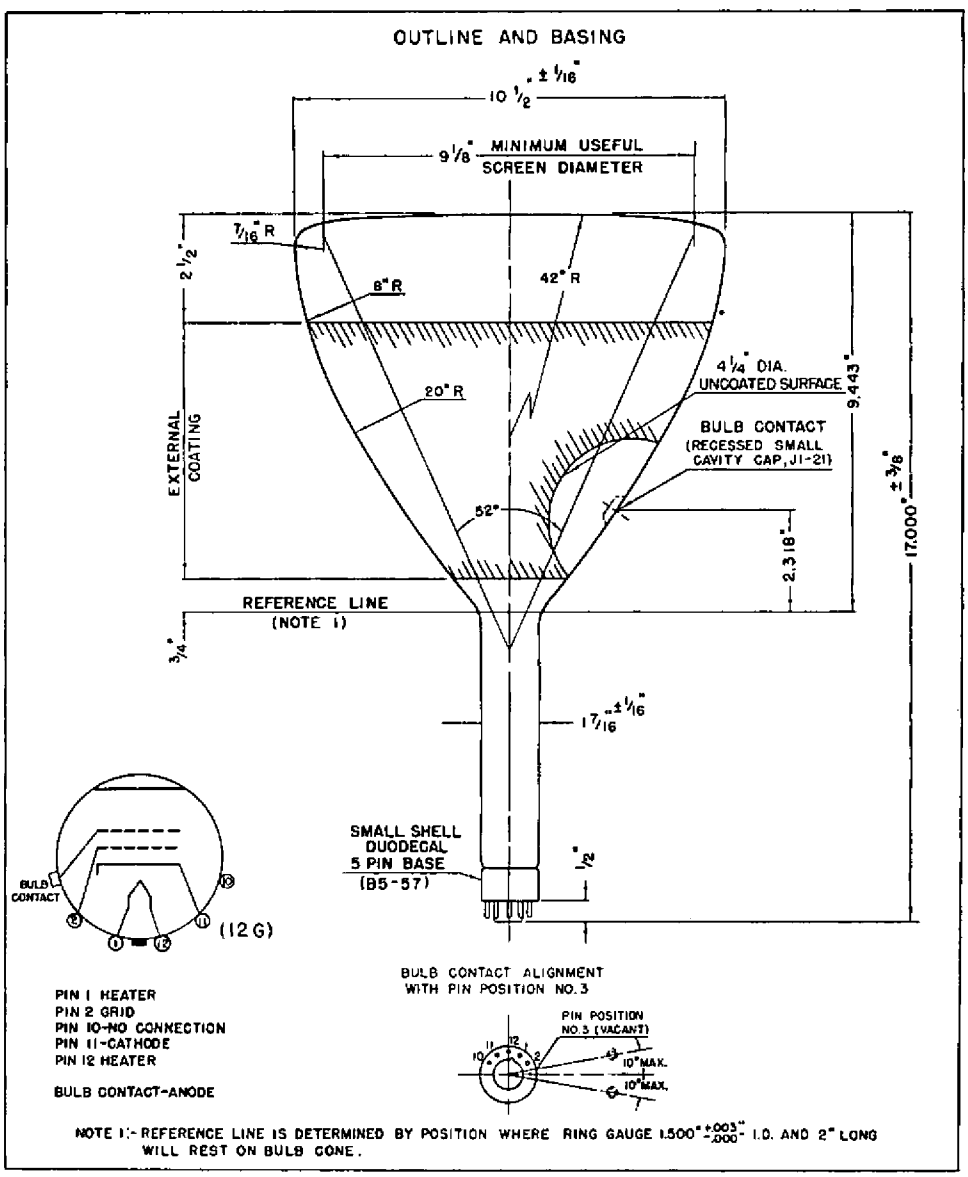
Anode Voltage (dc)	10,000 volts
Grid Voltage	
Negative-Bias (dc)	125 volts
Positive-Bias (dc)	0 volts
Positive Peak	2 volts
Peak Heater-Cathode Voltage	
Heater Negative with Respect to Cathode	
During Warm-Up Period (1)	410 volts
After Warm-Up Period	125 volts
Heater Positive with Respect to Cathode	125 volts

(1) *Not to exceed 15 seconds.*

TYPE 10MP4

TYPICAL OPERATING CONDITIONS

Anode Voltage (dc)	9,000	volts
Grid Voltage for Cut-Off (dc)	-27 to -63	volts

MAXIMUM CIRCUIT VALUES

Grid #1 Circuit Resistance	1.5	megohms