TUNG-SOL

CATHODE RAY

COATED UNIPOTENTIAL CATHODE

HEATER

6.3 VOLTS 0.6 AMPERE

AC OR DC

ANY MOUNTING POSITION

THE 12LP4 IS A DIRECTLY VIEWED PICTURE TUBE DESIGNED FOR USE IN TELEVISION RECEIVERS. THE TUBE UTILIZES MAGNETIC DEFLECTION AND MAGNETIC FOCUS TO PROVIDE 7 1/2" X 10" PICTURES.

DESCRIPTION

FLUORESCENCE	WHITE
PERSISTENCE	MEDIUM
DEFLECTION AND FOCUSING METHOD	MAGNETIC
DEFLECTION ANGLE (APPROX.)	54 DEGREES
EXTERNAL COATING WHEN GROUNDED ACTS AS A FILTER CAPACITOR	
ELECTRON GUN TO BE USED WITH ION-TRAP MAGNET	
BULB CONTACT	RECESSED SMALL CAVITY CAP

DIRECT INTERELECTRODE CAPACITANCES - APPROX.

CATHODE TO ALL OTHER ELECTRODES: K TO $(H+G_1+G_2+A)$	5	μμf
GRID #1 TO ALL OTHER ELECTRODES: G_1 TO $(H+K+G_2+A)$	6	μμf
MAXIMUM EXTERNAL CONDUCTIVE COATING TO ANODE	3 000	μμf
MINIMUM EXTERNAL CONDUCTIVE COATING TO ANODE	750	μμf

RATINGS

INTERPRETED ACCORDING TO RMA STANDARD M8-210

DESIGN CENTER VALUES

HEATER VOLTAGE	6.3	VOLTS
MAXIMUM ANODE VOLTAGE	12 000	VOLTS
MAXIMUM GRID #2 VOLTAGE	410	VOLTS
MAXIMUM GRID #1 VOLTAGE:		
NEGATIVE BIAS VOLTAGE	125	VOLTS
POSITIVE BIAS VOLTAGE	0	VOLTS
POSITIVE PEAK VOLTAGE	2	VOLTS
MAXIMUM PEAK HEATER CATHODE VOLTAGE:		
HEATER NEGATIVE WITH RESPECT TO CATHODE DURING EQUIPMENT WARM-UP PERIOD NOT EXCEEDING 15 SECONDS	125	VOLTS
HEATER POSITIVE WITH RESPECT TO CATHODE	125	VOLTS

TYPICAL OPERATING CONDITIONS AND CHARACTERISTICS

HEATER VOLTAGE	6.3	VOLTS
HEATER CURRENT	0.6	AMP.
ANODE VOLTAGE[A]	11 000	VOLTS
GRID #2 VOLTAGE	250	VOLTS
GRID #1 VOLTAGE[B]	-27 TO -63	VOLTS
FOCUSING COIL CURRENT (APPROX.)[C]	110	MA.
ION-TRAP CURRENT (APPROX.)[D]	120	MA.
GRID #1 CIRCUIT RESISTANCE	1.5	MEGOHMS

[A] ANODE CONTACT ALIGNS WITH VACANT PIN POSITION #3 ± 10 DEGREES.

[B] VUSUAL EXTINCTION OF UNDEFLECTED FOCUSED SPOT.

[C] FOR JETEC STANDARD FOCUS COIL WITH THE COMBINED GRID #1 BIAS VOLTAGE AND VIDEO - SIGNAL VOLTAGE ADJUSTED TO PRODUCE A HIGHLIGHT BRIGHTNESS OF 20 FOOT LAMBERTS ON A 7½x10 INCH PICTURE AREA. DISTANCE FROM REFERENCE LINE OF BULB TO CENTER OF FOCUS COIL AIR GAP SHALL BE 3.25 IN.

[D] WITH JETEC STANDARD ION-TRAP MAGNET.

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PLATE 2199

MAY 2 1949

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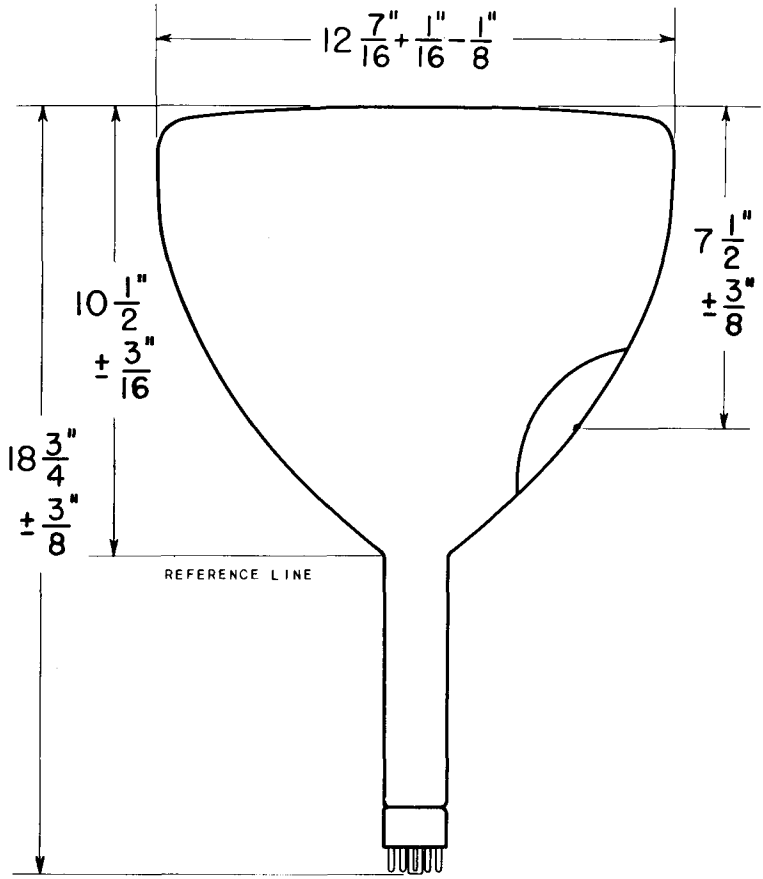

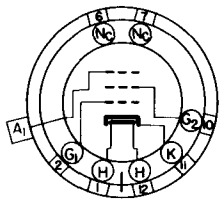

SMALL SHELL DUODECAL
7 PIN BASE
12D

1. HEATER
2. GRID NO. 1
6. NO CONNECTION
7. NO CONNECTION
10. GRID NO. 2
11. CATHODE
12. HEATER
CAP. ANODE NO. 1

PLATE 2200
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