

TUNG-SOL

CATHODE RAY

COATED UNIPOTENTIAL CATHODE

HEATER

6.3 VOLTS 0.6 AMP.
AC OR DC

ANY MOUNTING POSITION

METAL-CONE ENVELOPE

SMALL SHELL DUODECAL 5 PIN BASE

THE 19AP4A IS A MAGNETIC DEFLECTION AND MAGNETIC FOCUS DIRECT VIEW PICTURE TUBE USING THE METAL CONE CONSTRUCTION. IT HAS A GREY NEUTRAL-DENSITY FACEPLATE FOR INCREASED PICTURE CONTRAST AND DETAIL UNDER HIGH AMBIENT LIGHT CONDITIONS. THE ELECTRON GUN IS DESIGNED TO BE USED WITH A SINGLE MAGNET EXTERNAL ION TRAP TO PREVENT ION SPOT BLEMISHES.

DESCRIPTION

FLUORESCENCE AND PHOSPHORESCENCE	WHITE
PERSISTENCE	MEDIUM
DEFLECTION AND FOCUSING METHOD	MAGNETIC
DEFLECTION ANGLE (APPROX.)	66 DEGREES
ION TRAP	SINGLE MAGNET
ANODE TERMINAL	METAL-CONE LIP

DIRECT INTERELECTRODE CAPACITANCES - APPROX.

GRID #1 TO ALL OTHER ELECTRODES	7	μuf
CATHODE TO ALL OTHER ELECTRODES	5	μuf

RATINGS

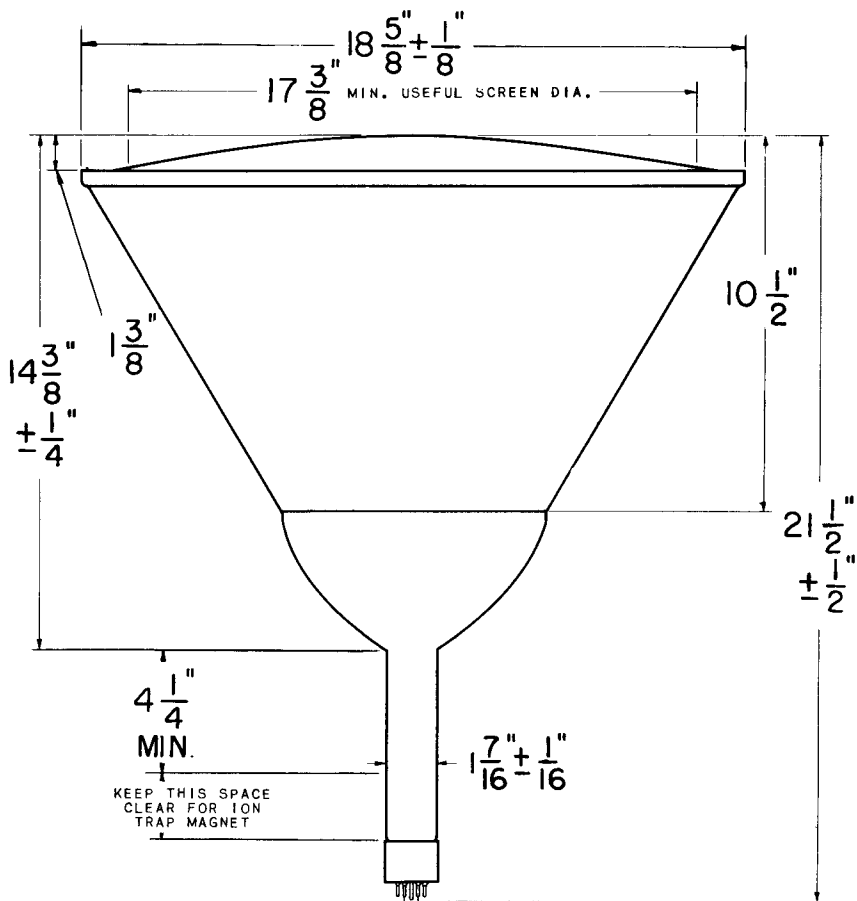
INTERPRETED ACCORDING TO RMA STANDARD M8-210

HEATER VOLTAGE	6.3	VOLTS
HEATER CURRENT	0.6	AMP.
MAXIMUM ANODE VOLTAGE (A & G ₃)	19 000	VOLTS
GRID #2 VOLTAGE	410	VOLTS
GRID #1 VOLTAGE:		
NEGATIVE BIAS VOLTAGE	125	VOLTS
POSITIVE BIAS VOLTAGE	0	VOLTS
POSITIVE PEAK VOLTAGE	2	VOLTS
PEAK HEATER-CATHODE VOLTAGE:		
HEATER NEGATIVE WITH RESPECT TO CATHODE:		
DURING WARM-UP PERIOD NOT EXCEEDING 15 SECONDS	410	VOLTS
AFTER EQUIPMENT WARM-UP PERIOD	150	VOLTS
HEATER POSITIVE WITH RESPECT TO CATHODE	150	VOLTS
MAXIMUM GRID #1 CIRCUIT RESISTANCE	1.5	MEG OHMS

TYPICAL OPERATING CONDITIONS AND CHARACTERISTICS

ANODE VOLTAGE	12 000	VOLTS
GRID #2 VOLTAGE	300	VOLTS
GRID #1 VOLTAGE (VISUAL EXTINCTION OF UNDEFLECTED FOCUSED SPOT.)	-33 TO -77	VOLTS
FOCUSING COIL CURRENT (APPROX.)	140 \pm 20%	MA.
ION TRAP MAGNET CURRENT (APPROX.)	75 \pm 50%	MA.

TUNG-SOL



- 1. HEATER
 - 2. GRID NO. 1
 - 10. GRID NO. 2
 - 11. CATHODE
 - 12. HEATER
- METAL-CONE LIP: ANODE, GRID NO. 3

