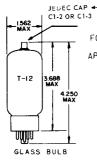
## TUNE-SOL -

#### **BEAM PENTODE**

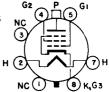


COATED UNIPOTENTIAL CATHODE

FOR HORIZONTAL DEFLECTION AMPLIFIER APPLICATIONS IN TELEVISION RECEIVERS

### ANY MOUNTING POSITION

PIN \*1 IS OMITTED WHEN EITHER A B6-122 OR B6-148 BASE IS USED



BASING DIAGRAM
JEDEC 6AM

SKIRTED MINIATURE

SMORT MEDIUM-SHELL
6 PIN OCTAL 86-122,
86-148 OR
7 PIN OCTAL
87-111, 87-190 SS-190 ◀~~

OUTLINE DRAWING

OUTLINE DRAWING

THE 6006A IS A HIGH-PERVEANCE BEAM POWER PENTODE DESIGNED FOR USE AS A HORIZONTAL DEFLECTION AMPLIFIER TUBE IN HIGH EFFICIENCY DEFLECTION CIRCUITS OF TELEVISION RECEIVERS. THERMAL CHARACTERISTICS OF THE HEATER ARE CONTROLLED SUCH THAT HEATER VOLTAGE SURGES DURING THE WARM-UP CYCLE ARE MINIMIZED PROVIDED IT IS USED WITH OTHER TUBES WHICH ARE SIMILARLY CONTROLLED. EXCEPT FOR THE CONTROLLED HEATER WARM-UP TIME AND HEATER RATINGS THE 6006A IS IDENTICAL TO THE 12006A.

# DIRECT INTERELECTRODE CAPACITANCES - APPROX.

GRID TO PLATE (G TO P)	0.5	рf
INPUT: (G1 TO H+K, BP + G2)	15.0	рf
OUTPUT: (P TO 31K, BP + B2)	7.0	рf

# HEATER CHARACTERISTICS AND RATINGS

DESIGN MAXIMUM VALUES - SEE EIA STANDARD RS-239

AVERAGE CHARACTERISTICS	6.3 VOLTS	1200	MA.
HEATER SUPPLY LIMITS: VOLTAGE OPERATION MAXIMUM HEATER-CATHODE VOLTAGE:		6.3±0.6	VOLTS
HEATER POSITIVE WITH RESPECT TO CATHODE			
DC		100	VOLTS
TOTAL DC AND PEAK		200	VOLTS
HEATER NEGATIVE WITH RESPECT TO CATHODE			
TOTAL DC AND PEAK		200	VOLTS

CONTINUED ON FOLLOWING PAGE

# -- TUNG-SOL --

CONTINUED FROM PRECEDING PAGE

#### MAXIMUM RATINGS

DESIGN MAXIMUM VALUES - SEE EIA STANDARD RS-239

### HORIZONTAL DEFLECTION AMPLIFIERA

PLATE SUPPLY VOLTAGE, DC (BOOST+DC POWER SUPPLY)	770	VOLTS
PLATE VOLTAGE, PEAK PULSE, POSITIVE	6000	VOLTS
PLATE VOLTAGE, PEAK PULSE, NEGATIVE	1500	VOLTS
PLATE DISSIPATION, B	18	WATTS
GRID #1 VOLTAGE, PEAK PULSE, NEGATIVE	330	VOLTS
GRID #2 VOLTAGE, DC	220	VOLTS
GRID #2 DISSIPATION	3.6	WATTS
CATHODE CURRENT, AVERAGE	155	MA.
CATHODE CURRENT, PEAK	540	MA.
GRID #1 CIRCUIT RESISTANCE, B	1.0	MEGOHM
BULB TEMPERATURE, (AT HOTTEST POINT)	220	°c

### AVERAGE CHARACTERISTICS

PENTODE OPERATION: Eb = 250V, Ec2 = 150V, Ec1=-22.5V.		
PLATE CURRENT	55	MA.
GRID #2 CURRENT	1.5	MA.
TRANSCONDUCTANCE	6600	µмноs
PLATE RESISTANCE, APPROX.	20,000	OHMS
ZERO BIAS: Eb = 60V, Ec2 = 150V. (INSTANTANEOUS VALUES)		
PLATE CURRENT	315	MA.
GRID #2 CURRENT	25	MA.
CUTOFF: Ib = 1 MA, Eb = 250 V, Ec2 = 150 V.		
GRID #1 VOLTAGE, APPROX.	÷40	VOLTS
CUTOFF: $1b = 1 \text{ Ma}$ , $Eb = 5000 \text{ V}$ , $Ec2 = 150 \text{ V}$ .		
GRID #1 VOLTAGE, APPROX.	-100	VOLTS
TRIODE MU: $Eb = Ec2 = 150 \text{ V}$ , $Ec1 = -22.5 \text{ V}$ .	4.5	

#### - INDICATES A CHANGE.

A FOR OPERATION IN A 525-LINE, 30-FRAME SYSTEM AS DESCRIBED IN "STANDARDS OF GOOD ENGINEERING PRACTICE FOR TELEVISION BROADCAST STATIONS: FEDERAL COMMUNICATIONS COMMISSION", THE DUTY CYCLE OF THE VOLTAGE PULSE MUST NOT EXCEED 15% OF ONE SCANNING CYCLE.

B. IN STAGES OPERATING WITH GRID LEAK BIAS, AN ADEQUATE CATHODE BIAS RESISTOR OR OTHER SUITABLE MEANS IS REQUIRED TO PROTECT THE TUBE IN THE ABSENCE OF EXCITATION.

