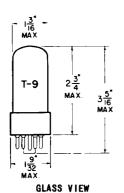
- TUNG-SOL -

BEAM POWER PENTODE



COATED UNIPOTENTIAL CATHODE

HEATER 12.6 VOLTS 0.6 AMP. AC OR DC

ANY MOUNTING POSITION



BOTTOM VIEW SHORT INTERMEDIATE SHELL 8 PIN OCTAL

THE 12EN6 IS A BEAM POWER PENTODE DESIGNED FOR USE AS A VERTICAL DEFLECTION AMPLIFIER IN TELEVISION RECEIVERS SWEEP CIRCUITS. 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 TYPES WHICH ARE SIMILARLY CONTROLLED.

DIRECT INTERELECTRODE CAPACITANCES

GRID TO PLATE	0.65	μμ f
INPUT	14	μμf
OUTPUT	8.0	μμf

RATINGS INTERPRETED ACCORDING TO DESIGN CENTER SYSTEM VERTICAL DEFLECTION AMPLIFIER SERVICE A

	TRIODE CONNECTION B	PENTODE CONNECTION	
HEATER VOLTAGE	12.6	12.6	VOLTS
MAXIMUM DC PLATE VOLTAGE	300	300	VOLTS
MAXIMUM PEAK POSITIVE PULSE PLATE VOLTAGE	1200	1200	VOLTS
MAXIMUM PLATE DISSIPATION ^C	7.5	7.0	WATTS
MAXIMUM PEAK NEGATIVE GRID #1 VOLTAGE	250	250	VOLTS
MAXIMUM DC GRID #2 VOLTAGE		150	VOLTS
MAXIMUM GRID #2 DISSIPATION		1.25	WATTS
MAXIMUM AVERAGE CATHODE CURRENT	50	50	MA.
MAXIMUM PEAK CATHODE CURRENT	175	175	MA.
MAXIMUM GRID #1 CIRCUIT RESISTANCE	2.2	2.2	MEGOHMS
MAXIMUM HEATER-CATHODE VOLTAGE			
HEATER POSITIVE WITH RESPECT TO CATHODE			
DC COMPONENT	10	00	VOLTS
TOTAL DC & PEAK	20	00	VOLTS
HEATER NEGATIVE WITH RESPECT TO CATHODE			
DC COMPONENT	20	00	VOLTS
TOTAL DC & PEAK	_30	00	VOLTS
HEATER WARM-UP TIME (APPROX.)*	11	.0	SECONDS

CONTINUED ON FOLLOWING PAGE

TUMB-SOL -

CONTINUED FROM PRECEDING PAGE

TYPICAL OPERATING CONDITIONS AND CHARACTERISTICS

VERTICAL DEFLECTION AMPLIFIER SERVICEA

HEATER VOLTAGE HEATER CURRENT		12.6 0.6±6%	VOLTS
PLATE VOLTAGE	50	200	VOLTS
GRID #2 VOLTAGE	110	110	VOLTS
GRID #1 VOLTAGE	OD	-9.5	VOLTS
PLATE CURRENT	135	50	MA.
GRID #2 CURRENT	18	2.2	MA.
PLATE RESISTANCE		28 000	OHMS
TRANSCONDUCTANCE		8 000	μ M HOS
GRID #1 CUTOFF VOLTAGE (APPROX.)		-35	VOLTS

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.

Bwith GRID #2 TIED TO PLATE.

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

 $^{^{}m D}_{
m APPLIED}$ FOR SHORT INTERVAL (2 SECONDS MAXIMUM) SO AS NOT TO DAMAGE THE TUBE.

^{*}HEATER WARM-UP TIME IS DEFINED AS THE TIME REQUIRED FOR THE VOLTAGE ACROSS THE HEATER TO REACH 80\$ OF ITS RATED VOLTAGE AFTER APPLYING 4 TIMES RATED HEATER VOLTAGE TO A CIRCUIT CONSISTING OF THE TUBE HEATER IN SERIES WITH A RESISTANCE OF VALUE 3 TIMES THE NOMINAL HEATER OPERATING RESISTANCE.