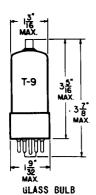
TUNG-SOL -

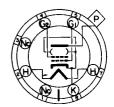
BEAM PENTODE



COATED UNIPOTENTIAL CATHODE

HEATER
12.6 VOLTS 0.6 AMP.
AC OR DC

ANY MOUNTING POSITION



BOTTOM VIEW
INTERMEDIATE SHELL
7 PIN OCTAL
6AN

THE 12BQ6GT IS A BEAM PENTODE DESIGNED FOR USE IN 600 MA. SERIES HEATER OPERATED RECEIVERS. IT IS SPECIFICALLY INTENDED FOR USE AS A HORIZONTAL DEFLECTION AMPLIFIER IN TELEVISION RECEIVERS USING MAGNETIC DEFLECTION. THE PLATE IS BROUGHT OUT TO A TOP CAP FOR ISOLATION OF THE HIGH VOLTAGE AND CONVENIENCE IN A CIRCUIT LAYOUT. ITS ELECTRICAL CHARACTERISTICS ARE SUCH AS TO PROVIDE GOOD PERFORMANCE WHERE THE SUPPLY VOLTAGES ARE LIMITED. THERMAL CHARACTERISTICS OF THE HEATER HAVE BEEN 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 HEATER RATINGS, IT IS IDENTICAL TO THE 6BQ6GT.

DIRECT INTERELECTRODE CAPACITANCES

GRID #1 TO PLATE: (G4 TO P)	0.6	μμ f
INPUT: G, TO (H+K+G2+BP)	15	μμf
ОUТРUТ: P ТО (H+K+G2+BP)	7.5	μμ f

RATINGS INTERPRETED ACCORDING TO DESIGN CENTER SYSTEM HORIZONTAL DEFLECTION AMPLIFIER^A

12.6	VOLTS
200	VOLTS
	VOL 13
	VOLTS
200	VOLTS
550	VOLTS
5 500	VOLTS
1 250	VOLTS
11	WATTS
	VOLTS
175	VOLTS
2.5	WATTS
110	MA.
400	MA.
0.47	ME GOHM
220 ⁰	CENTIGRADE
11.0	SECONDS
	200 100 200 550 5 500 1 250 11 300 175 2.5 110 400 0.47 220°

AFOR OPERATION IN A 525-LINE, 30-FRAME SYSTEM AS DESCRIBED IN "STANDARDS OF GOOD ENGINEERING PRACTICE FOR TELEVISION BROADCASTING STATIONS; FEDERAL COMMUNICATIONS COMMISSION". THE DUTY CYCLE OF THE VOLTAGE PULSE NOT TO EXCEED 15 PERCENT OF A SCAMMING CYCLE

CONTINUED ON FOLLOWING PAGE

BIN 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.

^{*}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

--- TUNG·SOL ---

CONTINUED FROM PRECEDING PAGE

TYPICAL OPERATING CONDITIONS AND CHARACTERISTICS

CLASS A1 AMPLIFIER

HEATER VOLTAGE HEATER CURRENT PENTODE CONNECTION: ^C	12.6 0.6	VOLTS
PLATE CURRENT GRID #2 CURRENT TRANSCONDUCTANCE PLATE RESISTANCE	55 2.1 5 500 20 000	MA. MA. UMHOS OHMS
ZERO-BIAS: D PLATE CURRENT GRID #2 CURRENT	225 25	MA . MA .
CUT-OFF: ^E GRID #1 VOLTAGE (APPROX.) TRIODE AMPLIFICATION FACTOR ^F	-46 4.3	VOLTS

 $c_{\text{with } \epsilon_{\text{b}} \; = \; 250 \; \text{volts}}, \; \epsilon_{\text{C2}} \; = \; _{150} \; \text{volts} \; \text{and} \; \epsilon_{\text{C1}} \; = \; _{-22.5} \; \text{volts}.$

INDICATES A CHANGE OR ADDITION.

 $^{^{\}text{D}}_{\text{W1TH}}$ ϵ_{b} = 60 volts and ϵ_{C2} = 150 volts.

 $[\]rm E^{}_{FOR~I\,b} = 1$ ma. With $\rm E^{}_{b} = 250$ volts and $\rm E^{}_{C2} = 150$ volts

 $[\]mathbf{F}_{\text{WITH E}_{b}} = \mathbf{E}_{\text{C2}} = \mathbf{150} \text{ volts and } \mathbf{E}_{\text{C1}} = -22.5 \text{ volts.}$

