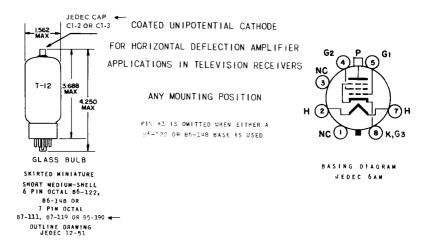
TUNG-SOL

BEAM PENTODE



THE 17DQGA 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 17DQGA IS IDENTICAL TO THE ODQGA.

DIRECT INTERELECTRODE CAPACITANCES - APPROX.

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

HEATER CHARACTERISTICS AND RATINGS

DESIGN MAXIMUM VALUES - SEE EIA STANDARD RS-239

16.8 VOLTS	450	MA.
	450±30	MA.
HODE		
	100	VOLTS
	200	VOLTS
100E		
	200	VOLTS
	11	SECONDS
	16.8 VOLTS	450±30 HODE 100 200 HODE 200

→INDICATES A CHANGE.

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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	µмноѕ
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 V, Ec1 =-22.5 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: FEBERAL 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 POOTECT 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.

