

November 15, 1960

HARD TUBE PULSE MODULATOR TYPE 7750

The 7750 is a three-electrode tube designed for service as a hard tube modulator. The forced-air cooled anode is capable of dissipating 8 kilowatts. The cathode is a thoriated tungsten filament which may be operated with either d-c or single-phase a-c.

ELECTRICAL:

Cathode	Thoriated Tungsten Filament
Filament:	
Voltage (d-c or single phase a-c)	8 Volts
Current	180 Amperes
Heating Time (minimum)	15 Seconds
Amplification Factor	20

MECHANICAL:

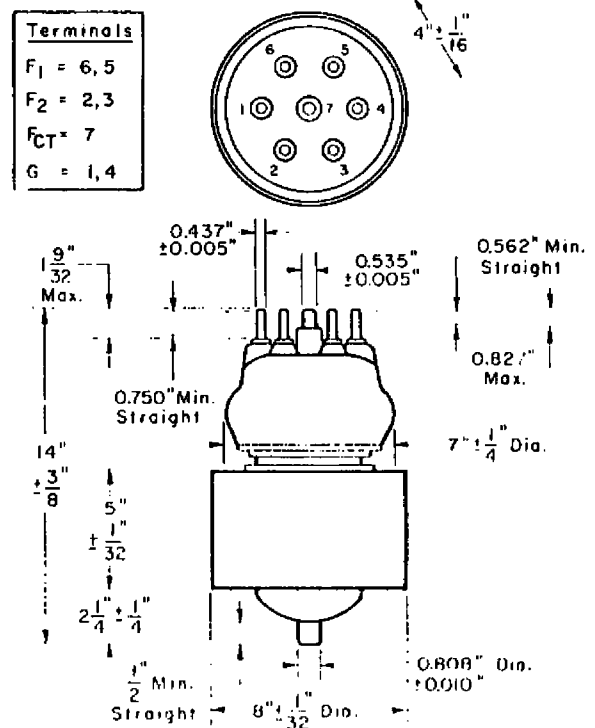
Mounting Position	Vertical, Anode Down		
Type of Cooling	Forced Air		
Required Air Flow Through Radiator:			
Plate Dissipation	6	8	Kilowatts
Air Flow	400	600	CFM
Static Back Pressure	0.6	1.0	In. H ₂ O
Maximum Bulb Temperature	180 °C		
Net Weight	30 Pounds		

MAXIMUM RATINGS:

Absolute Maximum Values

DC Plate Voltage	30 max.	Kilovolts
DC Grid Voltage	-2500 max.	Volts
Peak Positive Grid Voltage	2000 max.	Volts
Peak Pulse Plate Current	80 max.	Amperes
Peak Pulse Grid Current	20 max.	Amperes
Plate Dissipation	8 max.	Kilowatts
Grid Dissipation	800 max.	Watts
Pulse Length	1000 max.	Microseconds
Duty Factor	0.02 max.	
Peak Pulse Cathode Current	100' max.	Amperes

* Peak pulse cathode current of 200 amperes is allowable on pulses of 10 microseconds or less duration if filament is elevated to 10.0 volts.



AVERAGE CONSTANT - CURRENT CHARACTERISTICS

