

HARD TUBE PULSE MODULATOR TYPE 8044

The 8044 is a three electrode tube designed for service as a hard tube modulator. The forced air cooled anode is capable of dissipating 20 kilowatts. The cathode is a single phase thoriated tungsten filament.

ELECTRICAL:

Cathode.....	Thoriated Tungsten Filament
Filament:	
Voltage (d-c single phase a-c)	8 Volts
Current	185 Amperes
Heating Time (minimum)	15 Seconds
Amplification Factor.....	20
Direct Interelectrode Capacitances:	
Grid to Plate	79 μft
Grid to Filament	71 μft
Plate to Filament	4 μft

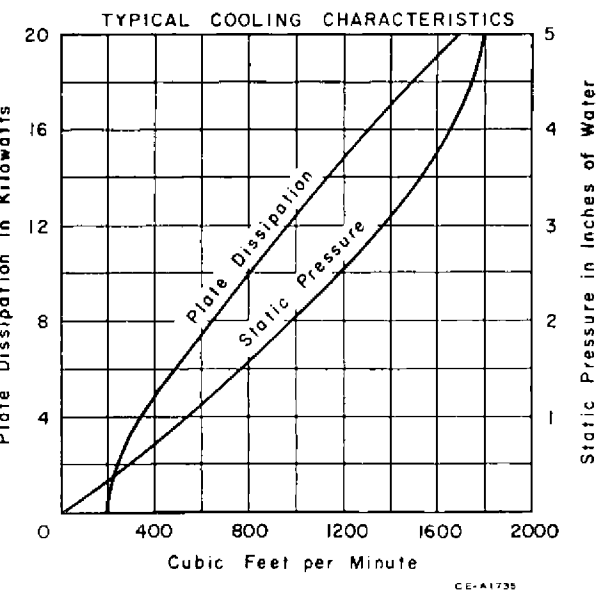
MECHANICAL:

Mounting Position	Vertical, Anode Down
Type of Cooling.....	Forced Air
Required Air Flow Through Radiator:	
Plate Dissipation	10 20 Kilowatts
Air Flow	800 1700 CFM
Static Back Pressure (Max.).....	2.0 4.5 In. H ₂ O
Maximum Bulb Temperature	180 °C
Net Weight.....	72 Pounds

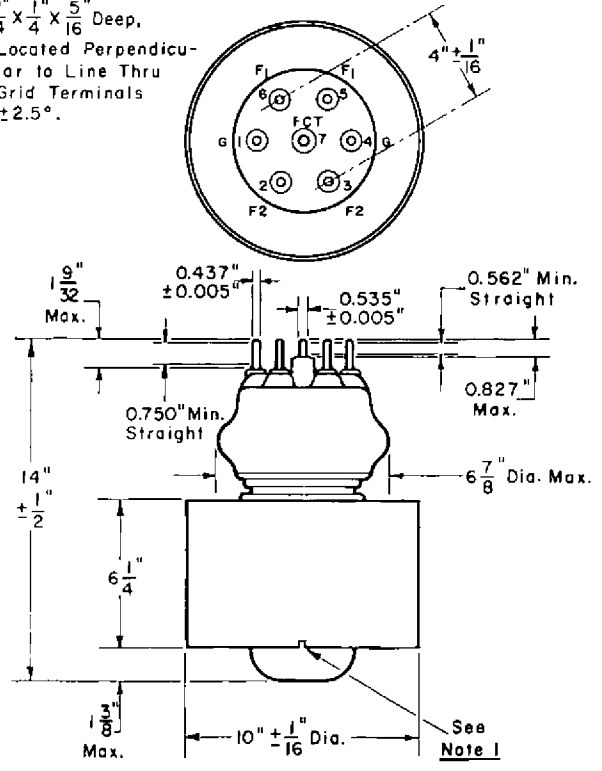
MAXIMUM RATINGS:

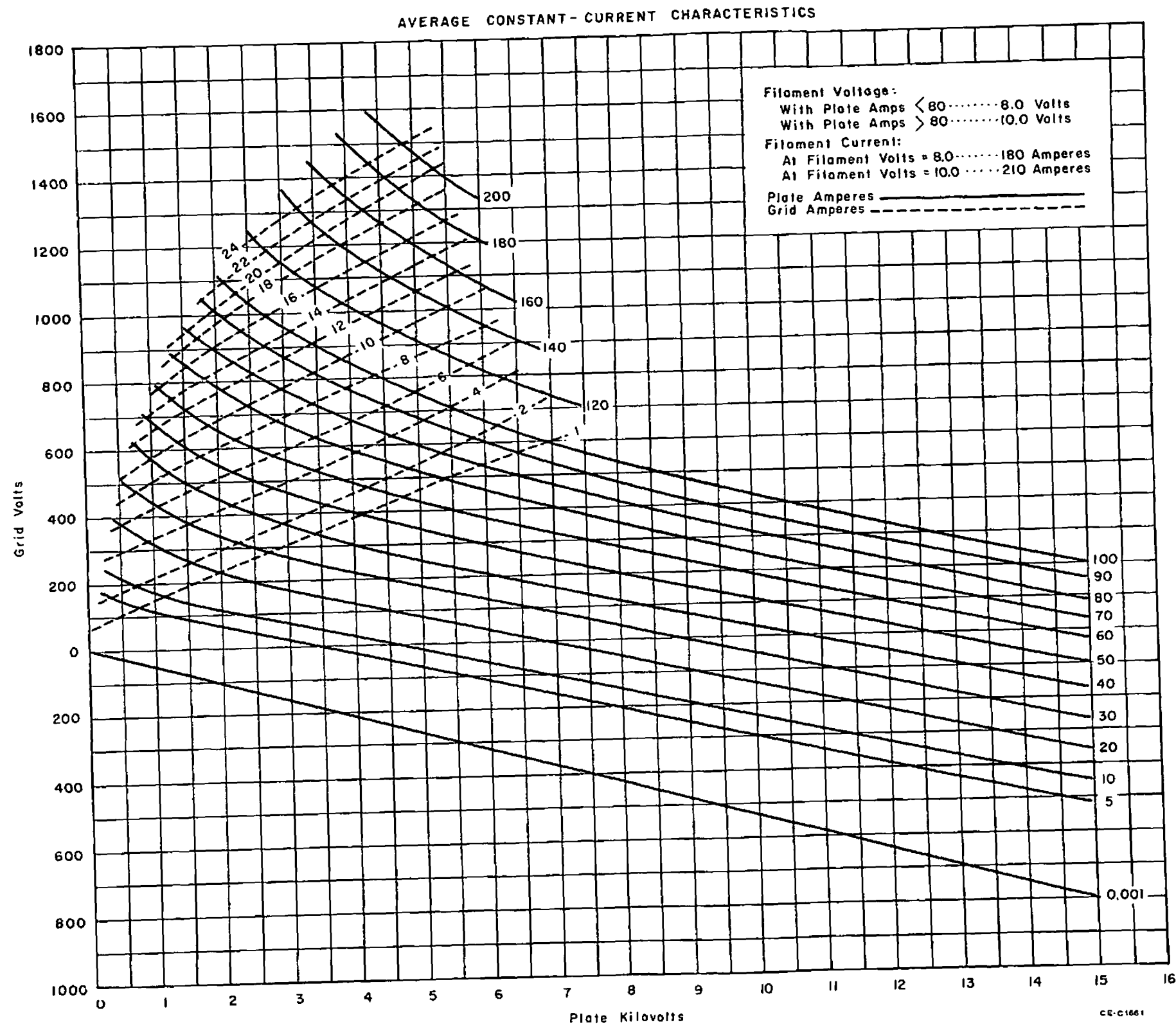
Absolute Maximum Values		
DC Plate Voltage	30 max.	Kilovolts
DC Grid Voltage	-2500 max.	Volts
Peak Positive Grid Voltage	2000 max.	Volts
Peak Pulse Plate Current	80 max.	Amperes
Peak Pulse Grid Current.....	25 max.	Amperes
Plate Dissipation.....	20 max.	Kilowatts
Grid Dissipation	800 max.	Watts
Pulse Length	1000 max.	Microseconds
Duty Factor	0.02 max.	
Peak Pulse Cathode Current		
(Note 1).....	105 max.	Amperes

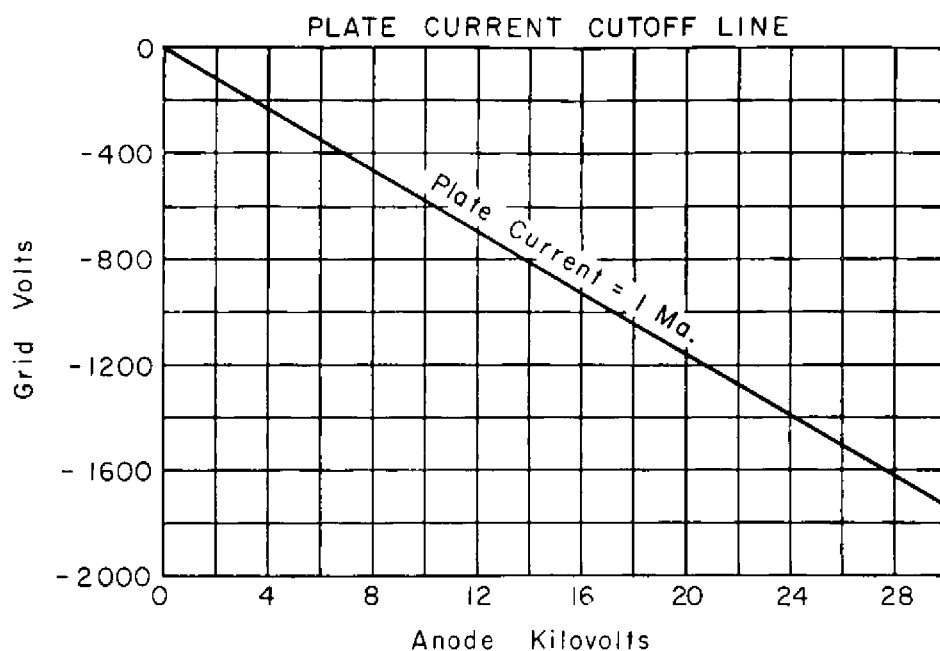
1. Peak pulse cathode current of 200 amperes is allowable on pulses of 10 microseconds or less duration if filament is elevated to 10.0 volts.



Note 1:
Radial Key Slot
1" X 1/4" X 5/16" Deep,
Located Perpendicular to Line Thru
Grid Terminals
±2.5°.







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