LO MU POWER TRIODE TYPE 7540

The 7540 is a three electrode tube designed for zero drive modulator service. The anode is rated for 35KW dissipation during Continuous Commercial Service. An accurately aligned integral water jacket assures steam free operation even under most severe beaming conditions. The cathode is thoriated tungsten. Ratings are for audio frequency only.
**ELECTRICAL:**
- Filament Voltage: 5.0
- Filament Amperes: 250
- Amplification Factor: 5
- Interelectrode Capacities: (approx.)
  - Grid to Plate: 50 μF
  - Grid to Filament: 65 μF
  - Plate to Filament: 8 μF

**MECHANICAL:**
- Mounting Position: Vertical anode down
- Anode Cooling: Water - 30 gpm
- Max. water outlet temperature: 70°C
- Water Pressure drop: 8 psi/30 gpm
- Max. Glass Temperature: 180°C
- Glass Seal Cooling: 50 CFM
- Net Weight: 18 Pounds
- Shipping Weight: 18 Pounds

**MAXIMUM RATINGS**
- Absolute Maximum Values
  - DC Plate Voltage: 15 max. Kilovolts
  - DC Plate Current*: 10 max. Amperes
  - Plate Power Input*: 70 max. Kilowatts
  - Plate Dissipation*: 35 max. Kilowatts
  - Grid Dissipation: 0 max. Watts
- * Averaged over AF cycle of sine wave.

**TYPICAL OPERATING CHARACTERISTICS**
*(Two Tubes in Push-Pull)*
- DC Plate Voltage: 10 - 12.5 Kilovolts
- DC Grid Voltage: 2000 - 2800 Volts
- Peak AF. Grid to Grid Voltage: 3950 - 5500 Volts
- Zero Signal DC Plate Current: 2.0 Amperes
- Max. Signal DC Plate Current: 9.5 Amperes
- Effective Plate-to-Plate Load Resistance: 1800 - 3000 Ohms
- Driving Power: 0 - 0 Watts
- Max. Signal Power Output: 52.5 - 59 Kilowatts

**TYPICAL OPERATING CHARACTERISTICS**
*(Two Tubes in Push-Pull)*
*(Reactive Load)*
- DC Plate Voltage: 12.5 Kilovolts
- DC Grid Voltage: 2600 Volts
- Peak AF. Grid to Grid Voltage: 3500 Volts
- Zero Signal DC Plate Current: 1.0 Amperes
- Max. Signal DC Plate Current: 3.1 Amperes
- Effective Plate-to-Plate Load Resistance: 9400 Ohms
- Driving Power: 0 Watts
- Instantaneous Peak Power Output: 37.5 K.V.A.
- Load power Factor: 0.2

**COOLING WATER REQUIREMENTS**

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