

## TRAVELING WAVE TUBE

# L-5007

- 2.0 to 4.0 Gc ◀
- 2.0 watts Min. ◀
- 36 db gain ◀
- PPM Focused ◀

The L-5007 is a broadband traveling wave amplifier having a minimum power output of two watts over the frequency range of 2,000 to 4,000 Mc. The tube has a metal-ceramic vacuum envelope and utilizes periodic permanent magnet focusing.

### TYPICAL OPERATING CONDITIONS

Duty	CW
Cathode Voltage	900 Vdc (Neg.)
Cathode Current	30 mA
Anode Voltage	Ground potential
Helix Voltage	Ground potential (Can be modulated)
Collector Voltage	Ground potential
Grid Voltage (With respect to cathode)	45 Volts (Pos.)
Filament Voltage	6.3 V
Filament Current	1.0 A

### PERFORMANCE CHARACTERISTICS

Frequency Range	2,000 to 4,000 Mc
Power Output	Min. 2.0 W
Small Signal Gain	Min. 36 db

### MAXIMUM RATINGS

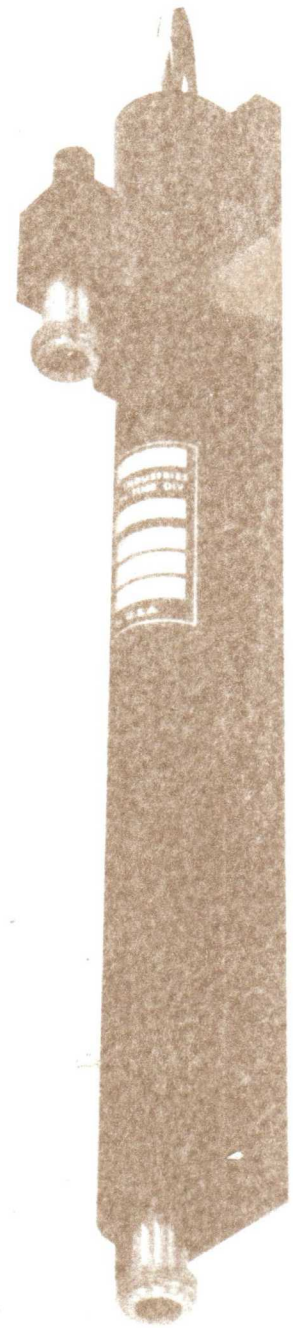
Duty	CW
Cathode Voltage (Range)	800 to 1,000 Vdc
Cathode Current	40 mA
Grid Voltage (With respect to cathode)	60 V
Helix Current	5.0 mA
Collector Temperature	140° C

### MECHANICAL DESCRIPTION

Dimensions	See Outline Drawing
Weight	1.5 lbs.
Cooling	Conduction
Mounting Position	Any

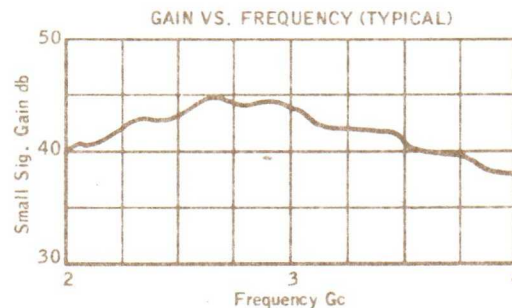
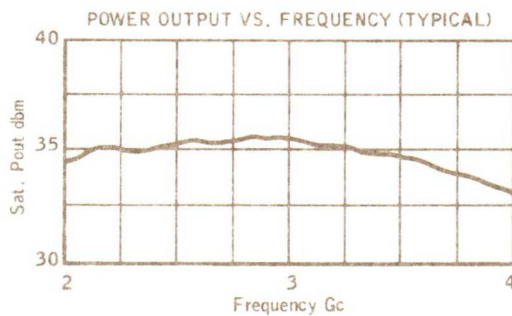
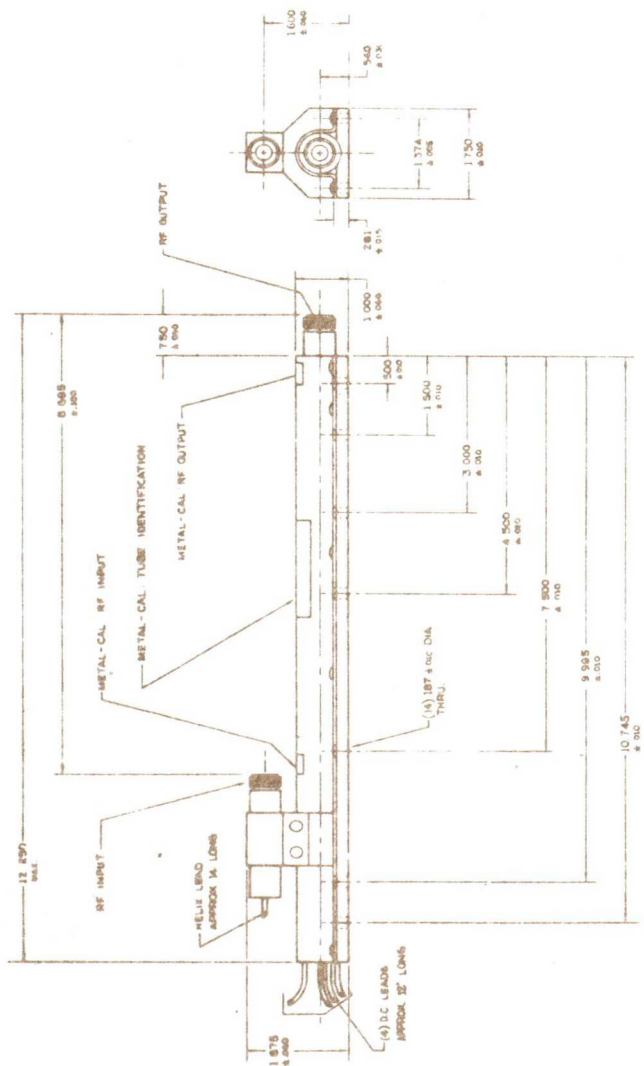
### ENVIRONMENTAL CAPABILITY

Shock	100 G
Vibration	20 G
Ambient Temperature	-54°C to +85°C
Altitude	Any



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**APPLICATION NOTES:**

1. High mu grid optional.
2. Available with higher power for narrow band operation.
3. Helix isolated for modulation.