



# L5906 Traveling Wave Tube

### Features

- 9.4 to 10.0 GHz Frequency Band
- 50 KW Minimum Peak Power
- 50 dB Minimum Saturated Gain
- High Efficiency (2 Stage Collector)
- 1% Duty
- Air Cooled



### Typical Performance

RF Peak Power Output .....	50 kW min.
Duty .....	1%
RF Drive Power Input .....	20 dBm
Frequency .....	9.4 to 10.0 GHz
Saturated Gain .....	55 dB

### Mechanical

Mounting Position .....	Any
Weight .....	18 lbs max.
Dimensions .....	See Outline Dwg.

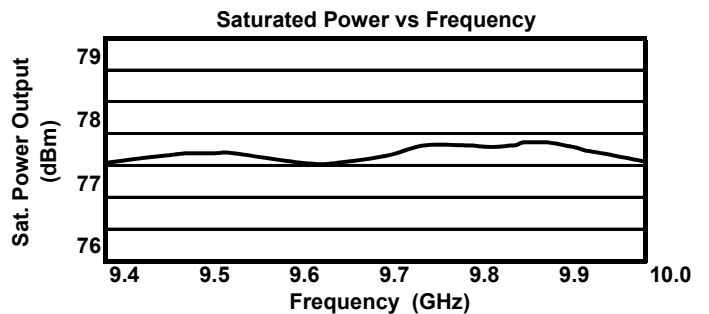
### Typical Operating Parameters

Cathode Voltage .....	-34 KV
Peak Cathode Current .....	7.0 A
Collector Voltage No.1 .....	21.6 KV
Collector Voltage No.2 .....	15.5 KV
Peak Body Current (with RF) .....	1.0 A
Grid Bias .....	-400 V
Peak Grid Drive .....	+375 V
Heater Voltage .....	-11.0 V
Heater Current .....	4.1 A
Air Cooling @ 30°C Inlet .....	4.5 lbs/minute
Gun Insulation .....	Potted

All voltages are with respect to cathode

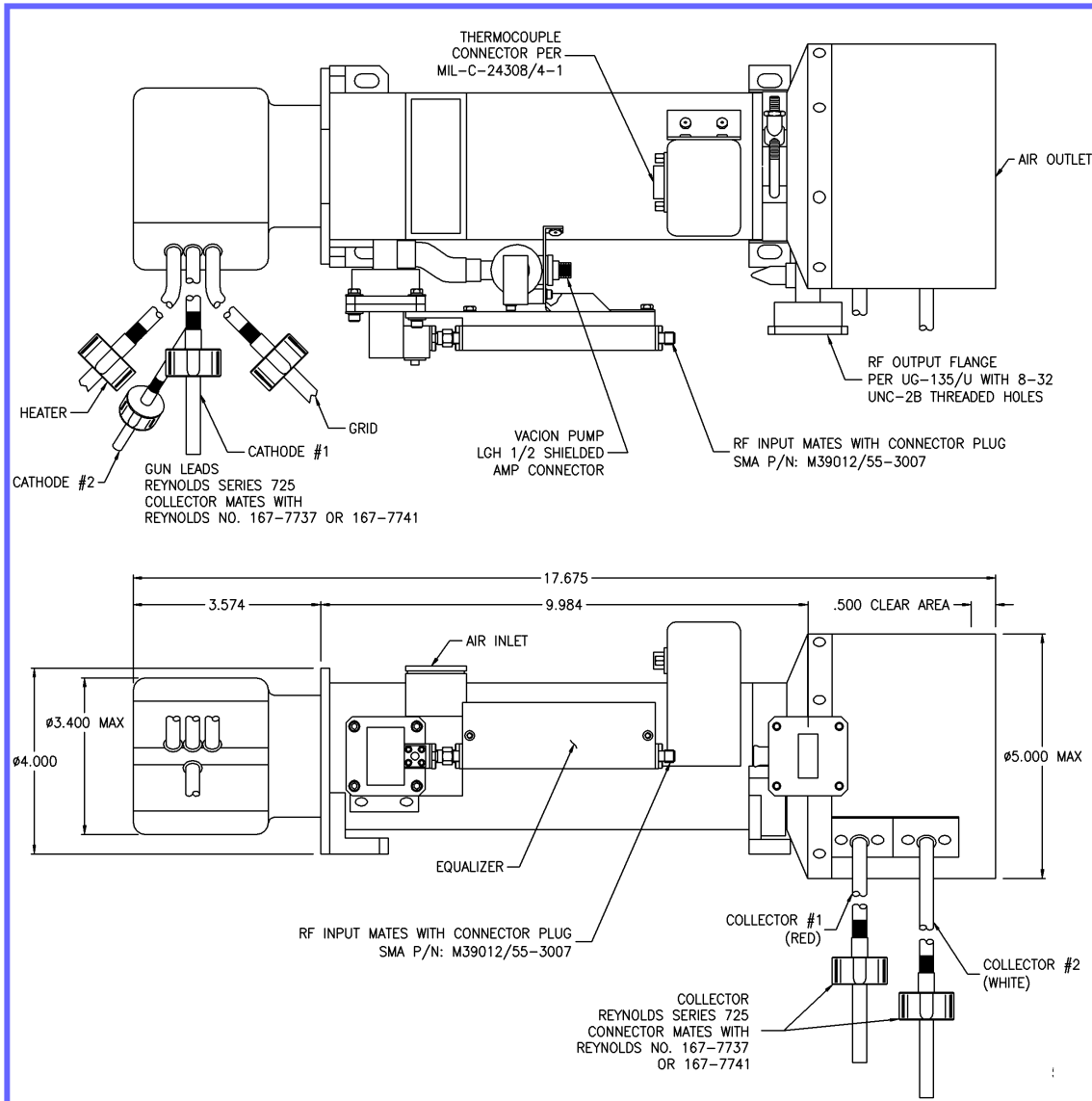
The L5906 Coupled Cavity TWT provides a minimum pulsed power output of 50 KW over a frequency range of 9.4 to 10.0 GHz. The tube has a higher efficiency than most coupled cavity TWTs of comparable bandwidth. It has a typical saturated gain of 55 dB over a 6.0% bandwidth and is suitable for use in airborne radar systems.

The tube is air cooled and operates at a duty cycle of 1% for a minimum average power output of 500 watts. It has a shadow gridded gun and a two stage depressed collector. The tube is PPM focused with samarium cobalt magnets.. DS59061102



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# L5906 Outline Drawing



Current detailed outline drawings are available on request. Specifications and features are subject to change without notice.