



Travelling Wave Tube

Type LY134



Description

The LY134 is rated at 8kW minimum peak power output, 60dB gain, 2% duty ratio at pulse lengths up to 10 μ s, and is characterised by a flat gain response across the operating bandwidth. The compact, rugged tube is of a metal ceramic construction and weighs 2.5kg (approx).

Features

The LY134 is a medium power I Band TWT intended for radar applications. The tube incorporates:

- Low Voltage Beam Switching Grid
- Ring Loop Circuits
- PPM Focusing
- Depressed Collector Operation
- Conduction Cooling

Specification

Frequency Range	9GHz - 10GHz
Output Power	8kW Peak (min)
Duty Ratio	2%
Gain	60dB
Load VSWR	1.5:1
Source VSWR	1.5:1
Gain Flatness Over the Frequency Range	1dB
Harmonic output	-20dBc
Heater Voltage	6.3V
Heater Power	18W

Phase Sensitivity

Cathode	0.5°/V
Grid	4.5°/V
AM/PM	8°/dB

Electrode Voltages WRT Cathode (Typical)

Grid Bias	-300V
Grid Pulse	300V
Slow Wave Structure	14.5kV
Collector	11.0kV

Electrode Pulse Currents (Typical)

Grid	10mA
Slow Wave Structure	0.6A
Cathode	2.8A

Physical

Baseplate Temperature Range	-20°C to +80°C
Input Connector	SMA
Output Connector	UG40A/U Waveguide Flange
Overall Dimensions (approx)	346.7mm x 63.5mm x 83.2mm
Weight (approx)	2.5kg

Albacom Limited reserve the right to alter any product specifications without prior notice.