



Travelling Wave Tube

Type LY132



Description

The LY132 is rated at 2kW minimum peak power output, 55dB gain, 3% duty ratio at pulse lengths up to 5 μ s. The tube is capable of operating up to 12% for 10ms in a burst mode operation 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 LY132 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

Electrical

Frequency Range	9GHz - 10GHz
Output Power	2kW Peak (min)
Duty Ratio	3%
Gain	55dB
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	-250V
Grid Pulse	180V
Slow Wave Structure	11.5kV
Collector	8.5kV

Electrode Pulse Currents (Typical)

Grid	10mA
Slow Wave Structure	0.3A
Cathode	1.5A

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.