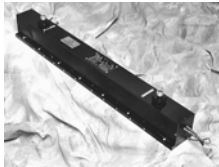




Travelling Wave Tube

Type LY80



Description

The LY80 is a D Band TWT intended for general purpose pulse power operations. It can be supplied with either cathode modulation or low voltage beam switching grid for pulse length and prf flexibility. The tube is rated at 2kW minimum peak power output, 45dB gain and 10% duty ratio up to pulse length of 15 μ S. The two 300MHz frequency bands are achieved by variation of the cathode voltage. The compact, rugged tube is of metal ceramic construction using ppm focusing and weighs less than 6kg.

Features

The LY80 is a medium power D Band TWT intended for radar applications. The tube incorporates:

- Cathode modulation or
- Low voltage beam switching grid
- Ring loop circuits
- PPM Focusing
- Conduction cooling

Specification

Electrical

Frequency Range	1.2-1.8GHz in 2 Variants of 300MHz Bandwidth
Output Power	2kW Peak (min)
Duty Ratio	10%
Gain	45dB
Pulse Length	15 μ s (max)
Load VSWR Output	1.5:1
Source VSWR Input	2:1
Gain Flatness Over the Frequency Range	1dB
Heater Voltage	6.3V
Heater Power	20W

With Cathode Modulation (Typical)

Slow Wave Structure Voltage (wrt cathode)	7.5kV
Cathode Current	1.4A

With Grid Modulation (Typical)

Slow Wave Structure Voltage (wrt cathode)	7.5kV
Grid Bias (wrt cathode)	-200V
Grid Pulse Voltage (wrt cathode)	200V
Cathode Current	1.4A

Physical

Baseplate Temperature Range	-10°C to +70°C
Input & Output Connectors	N Type (or as required)
Overall Dimensions (approx)	610mm x 80mm x 100mm
Weight (approx)	6kg

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