

Ultra Wide Band Power Detector
0.01-18GHz



Key Features

- Ultra Wide Band
- High Sensitivity
- Low VSWR

Typical Applications

- Wireless Infrastructure
- Military and Aerospace
- Test and Measurement
- Radar and Satellite
- 5G LTE Communications

Electrical Specifications ,T_A=25°C

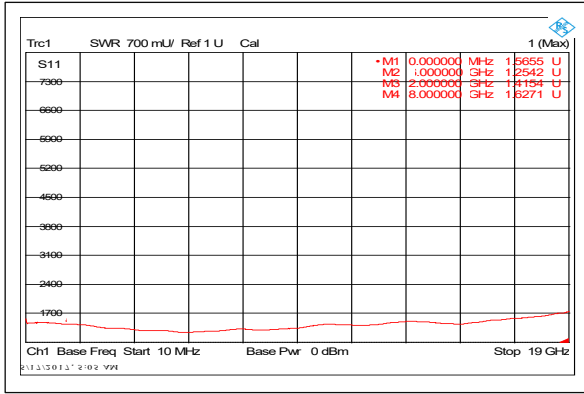
Parameter	Min	Typ	Max	Min	Typ	Max	Units
Frequency Range	0.01-12		12-18				GHz
VSWR		1.45	1.6		1.6	1.8	: 1
Tss	-45			-45			dBm
Sensitivity		0.5			0.5		mv/dB
Input Power			23			23	dB m
Output Polarity	Positive (+)						
Weight	0.35 Max.						oz
Input / Output Connectors	SMA-Male / SMA-Female						
Material	Aluminum						
Finish	Gold Plated						

Environmental Specifications and Test Standards

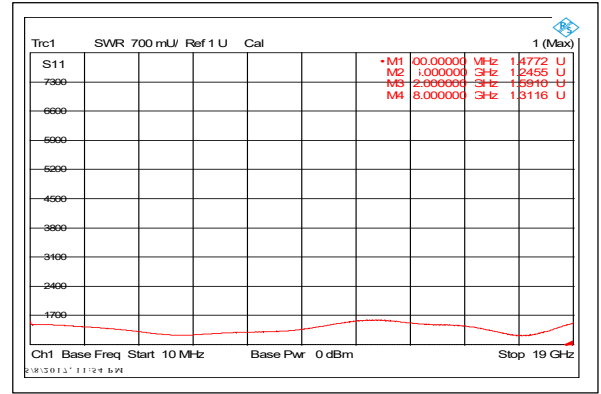
Parameter	Description
Operational Temperature	-40°C~+85°C (Case Temperature)
Storage Temperature	-50°C~+105°C
Thermal Shock	-40°C → +85°C (5 Cycles / 10 hours)
Random Vibration	MIL-STD-202G Table 214-I, Test Condition Letter C 1.5 Hours Per Axis
High Temperature Burn In	Temperature +85°C for 72 Hours
Shock	1. Weight >20g, 50g half sine wave for 11ms, Speed variation 3.44m/s 2. Weight <=20g, 100g Half sine wave for 6ms, Speed variation 3.75m/s 3. Total 18 times (6 directions, 3 repetitions per direction).
Altitude	Standard: 30,000 Ft (Epoxy Sealed Controlled Environment) Optional: Hermetically Sealed (60,000 ft. 1.0 PSI min)
Hermetically Sealed (Optional)	MIL-STD-883 (For Hermetically Sealed Units)

Typical Performance Plots

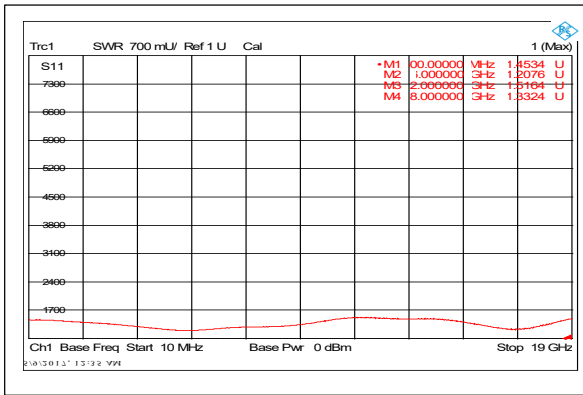
VSWR @+25°C



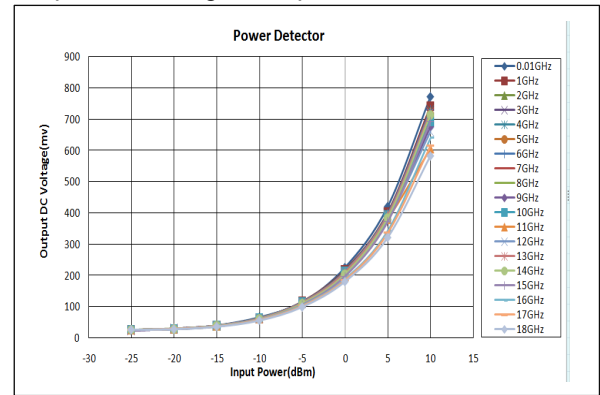
VSWR @-40°C



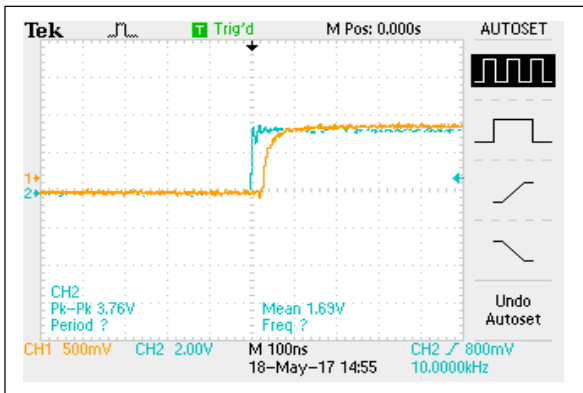
VSWR @+85°C



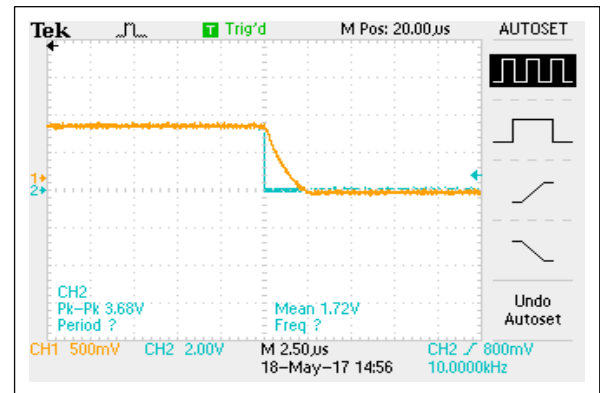
Output DC Voltage vs. Input Power



Rise Time

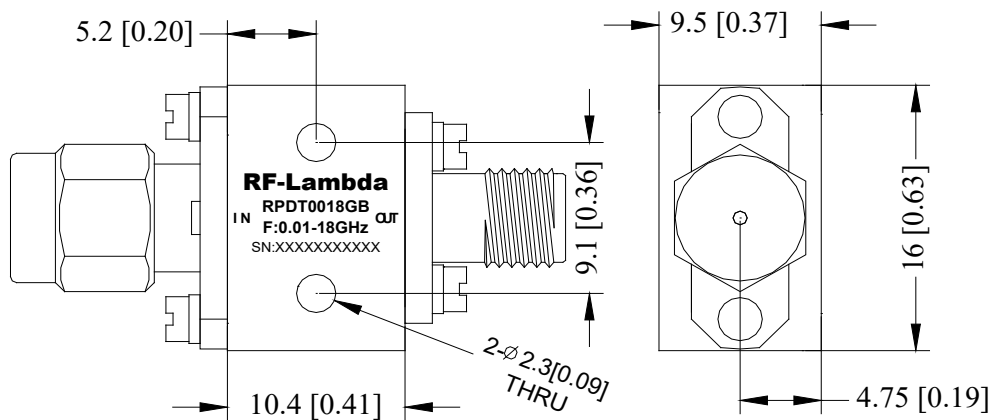


Fall Time



Outline Drawing

All Dimensions in mm [inches]
Tolerance ± 0.15 [0.006]



Notes: Standard torque wrench must be used to secure RF connectors.

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