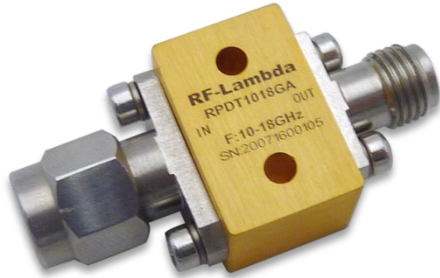


## Wide Band Power Detector 10 - 18GHz



### Features

- Wide Band
- High Sensitivity
- Low VSWR

### Typical Applications

- Wireless Infrastructure
- Military and Aerospace
- Test and Measurement

### Electrical Specifications, $T_A=25\text{ }^\circ\text{C}$

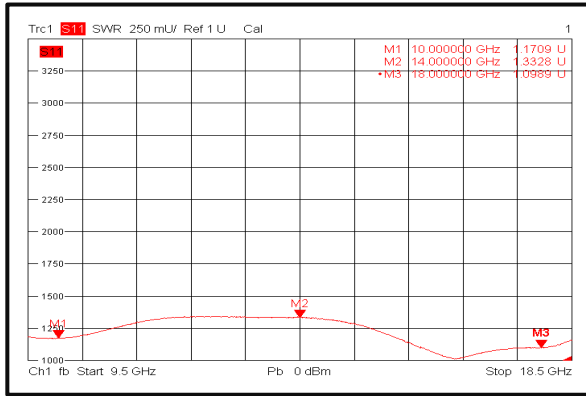
Parameters	Min.	Typ.	Max.	Units
Frequency Range	10		18	GHz
VSWR		1.4	1.5	: 1
Tss	-45			dBm
Sensitivity	0.5			mv/uw
Input Power			23	dBm
Output Polarity	Positive(+)			
Weight	0.35 Max.			ounces
Input / Output Connectors	SMA-Male / SMA-Female			
Material	Aluminum			
Finish	Gold Plated			

**Environmental Specifications and Test Standards**

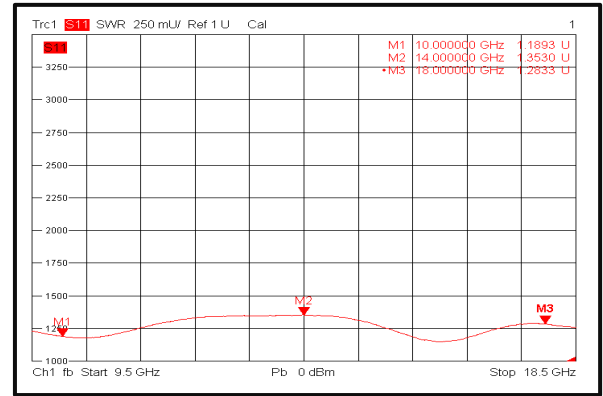
Parameter	Description
Operational Temperature	-40°C~+85°C (Case Temperature)
Storage Temperature	-50°C~+105°C
Thermal Shock	-40°C → +85°C (5 Cycles / 10 hours)
Random Vibration	MIL-STD-202G Table 214-I, Test Condition Letter C 1.5 Hours Per Axis
High Temperature Burn In	Temperature +85°C for 72 Hours
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**

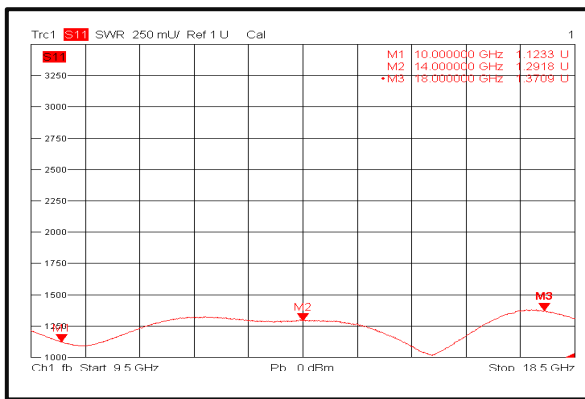
**VSWR @+25°C**



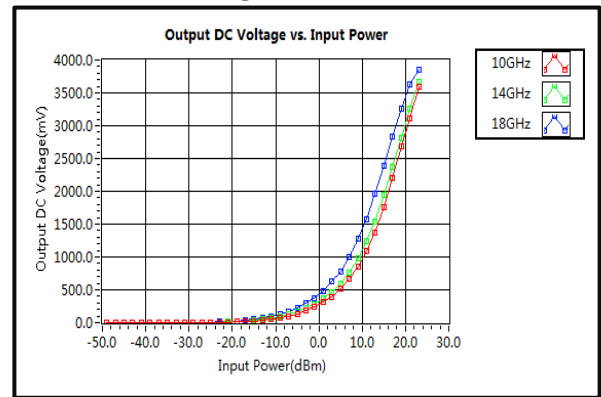
**VSWR @-40°C**



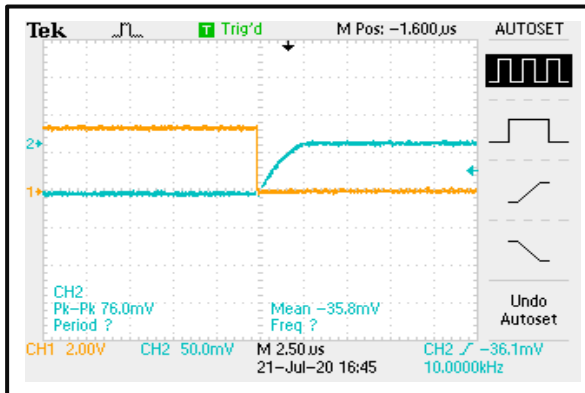
**VSWR @+85°C**



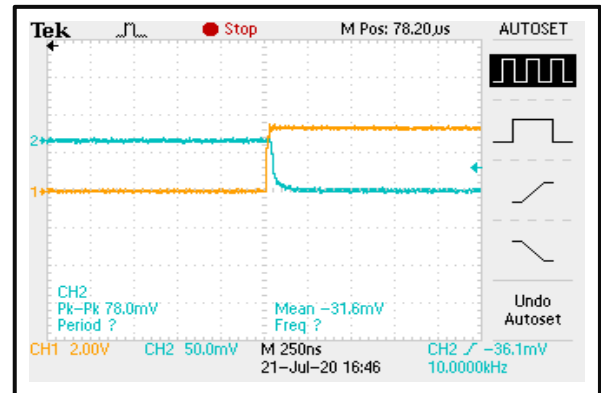
**Output DC Voltage vs. Input Power**



**Rise Time**



**Fall Time**

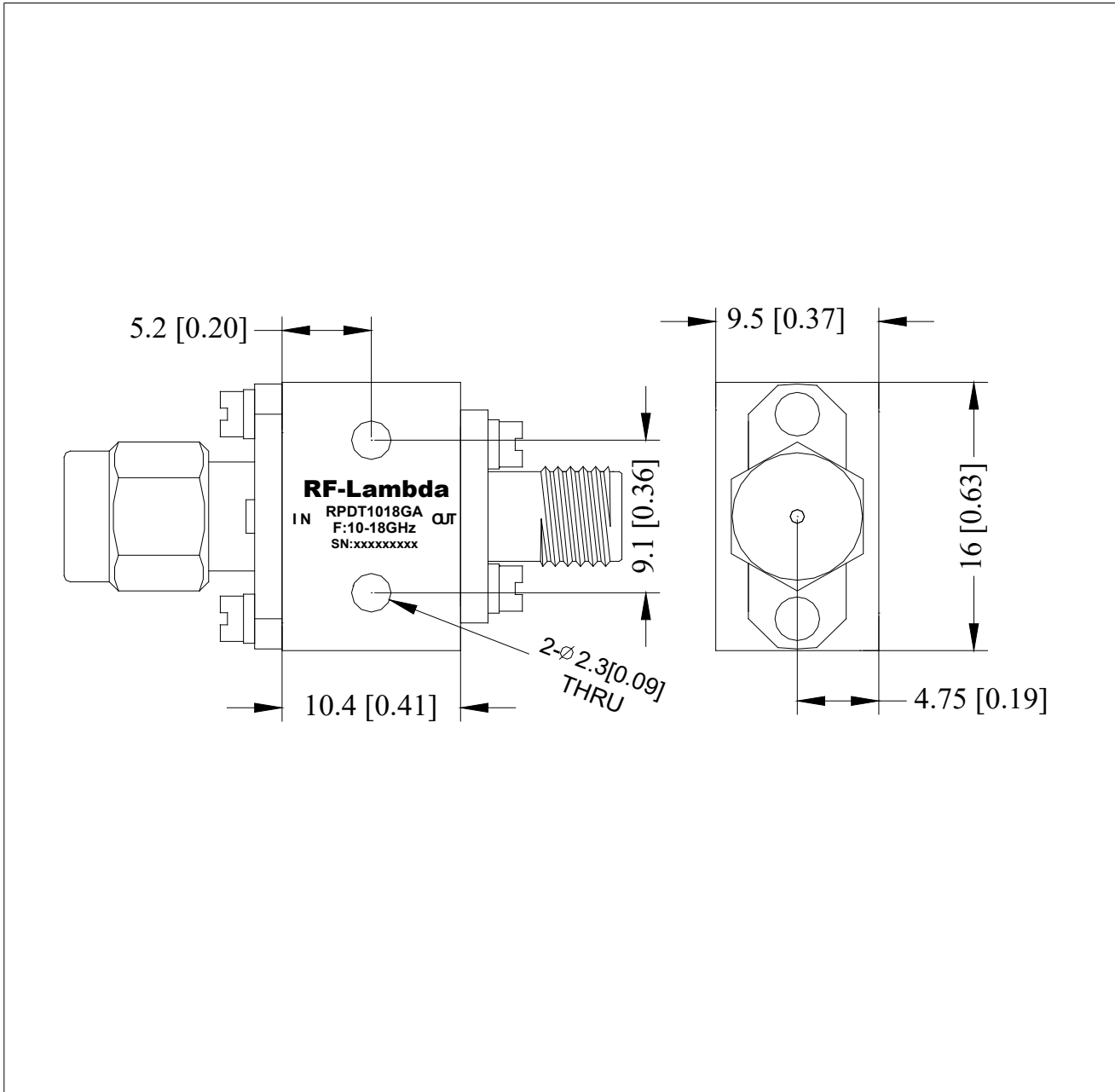


**Wide Band Power Detector 10-18GHz**

**Outline Drawing:**

All Dimensions in mm [inches]

Housing Tolerance  $\pm 0.1$  [0.004]



**Important Notice**

The information contained herein is believed to be reliable. RF-Lambda makes no warranties regarding the information contained herein. RF-Lambda assumes no responsibility or liability whatsoever for any of the information contained herein. RF-Lambda assumes no responsibility or liability whatsoever for the use of the information contained herein. The information contained herein is provided "AS IS, WHERE IS" and with all faults, and the entire risk associated with such information is entirely with the user. All information contained herein is subject to change without notice. Customers should obtain and verify the latest relevant information before placing orders for RF-Lambda products. The information contained herein or any use of such information does not grant, explicitly or implicitly, to any party any patent rights, licenses, or any other intellectual property rights, whether with regard to such information itself or anything described by such information. RF-Lambda products are not warranted or authorized for use as critical components in medical, life-saving, or life sustaining applications, or other applications where a failure would reasonably be expected to cause severe personal injury or death.

**Wide Band Power Detector 10-18GHz**