

## Model 1515 & 1515-1 Broadband Resistive Power Divider Ruggedized SMA Connectors

dc to 18.0 GHz  
1 Watt



### Features

- Miniature Size & Lightweight - High power capability and high ambient temperature operation.
- Close Tracking & Low Frequency Sensitivity - Output power symmetry is excellent across the frequency range. Division is 6 dB from matched ports.

### Specifications

- NOMINAL IMPEDANCE:** 50 Ω
- FREQUENCY RANGE:** dc to 18.0 GHz
- INSERTION LOSS (between input & either output arm):** 6 dB nominal, -0.2 dB, +1.2 to 10 GHz, 1.5 to 18 GHz
- MAXIMUM INPUT POWER:** 1 watt CW, 1 kilowatt peak (5 μsec pulse width, 0.05% duty cycle)
- NUMBER OF PORTS:** 3, interchangeable for input and output
- PHASE TRACKING:** 5° maximum between ports (J2 & J3) with input connector (J1).
- POWER COEFFICIENT:** < 0.005 dB/dB/watt

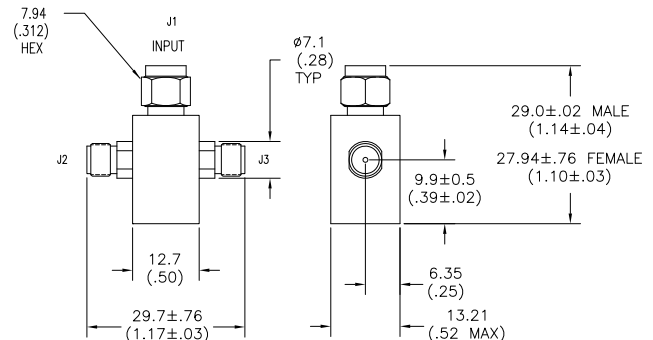
#### AMPLITUDE TRACKING-J2 & J3 (Maximum):

Frequency (GHz)	Tracking
dc - 4	0.2 dB
4 - 10	0.4 dB
10 - 18	0.5 dB

#### MAXIMUM SWR:

Frequency (GHz)	SWR
dc - 10	1.25
10 - 18	1.35

- TEMPERATURE COEFFICIENT:** < 0.0004 dB/dB/°C
- TEMPERATURE RANGE:** -55°C to +125°C
- CONSTRUCTION:** Nickel plated brass body; stainless steel connectors; gold plated beryllium copper contacts.
- TEST DATA:** Insertion loss data supplied at 50 MHz, 12.0, and 18.0 GHz. Other test data can be provided at additional cost.
- CONNECTORS: Model 1515:** Male SMA connector port 1 and Female SMA connectors ports 2 and 3.
- Model 1515-1:** SMA Female connectors all ports--all SMA connectors per MIL-STD-348 interface dimensions - mate nondestructively with MIL-C-39012 connectors.
- WEIGHT:** Net 30 g (1 oz)
- PHYSICAL DIMENSIONS:**



Model No.	Input Connector	Output Connector
1515	SMA Male	SMA Female
1515-1	SMA Female	SMA Female

NOTE: All dimensions are given in mm (inches) and are maximum, unless otherwise specified.