

# Power Splitters & Dividers

## Model 1515 & 1515-1, Broadband Resistive Power Divider

**RoHS**

*Ruggedized SMA Connectors*

**dc to 18.0 GHz**  
**1 Watts**

### 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 18.0 to 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.

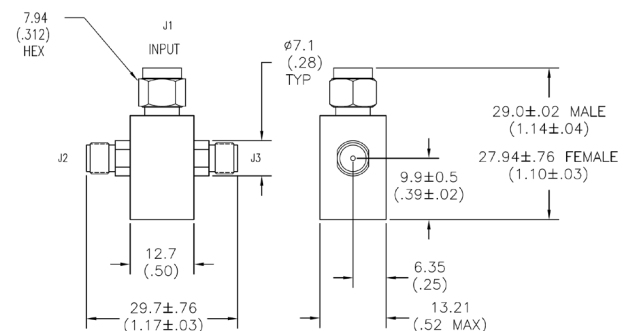
#### Connectors:

**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.