Model 1515 & 1515-1
Broadband Resistive Power Divider

dc to 18.0 GHz
1 Watt

SMA Connectors

RoHS

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.
- **Test data Data -** Insertion loss test data data supplied.

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

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.

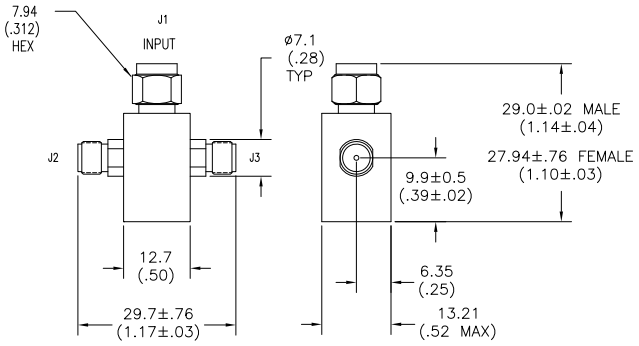
TEST DATA: Insertion loss data supplied at 50 MHz, 12.0, and 18.0 GHz. Other test data can be provided at additional cost.

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:

1. All dimensions are given in mm (inches) and are maximum, unless otherwise specified.
2. Unit available with RoHS compliant materials, specify when ordering.

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

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