Power Splitters & Dividers



Model 1506A Broadband Resistive Power Divider

dc to 18.0 GHz 1 Watt

Type N Connectors



Features

- // Accurate Division and Low Frequency Sensitivity -The symmetry of output power between the two arms is excellent across the frequency range.
- // High Stability Low temperature and power coefficients ensure attenuation stability.
- Test data Data Each divider is calibrated at four frequencies, and the data is supplied on a permanently attached test data plate.
- Matched Ports Symmetrical 6 dB division permits any port to be used as input.

Specifications

NOMINAL IMPEDANCE: 50 $\,\Omega$ FREQUENCY RANGE: dc to 18.0 GHz

MAXIMUM INPUT POWER: 1 watt CW, 1 kilowatt peak

(5 μsec pulse width, 0.05 % duty cycle)

INSERTION LOSS (between input & one output arm): 6 dB nominal, -0.2, +1.2 dB maximum to 10.0 GHz; +1.5 dB maximum to 18.0 GHz.

NUMBER OF PORTS: 3, interchangeable for input and

output

PHASE TRACKING: 5° maximum between ports (J2 & J3) with input connector (J1).

AMPLITUDE TRACKING (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

POWER COEFFICIENT: < 0.005 dB/dB/watt

TEMPERATURE COEFFICIENT: < 0.0004 dB/dB/°C

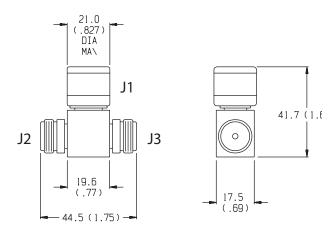
TEMPERATURE RANGE: -55°C to +125°C

CONSTRUCTION: Nickel plated brass body; stainless steel connectors; gold plated beryllium copper contacts.

TEST DATA: Insertion loss data supplied at 50 MHz, 6.0, 12.0, and 18.0 GHz on nameplate only. No paper data supplied. Other test data can be provided at additional cost.

CONNECTORS: Type N connectors per MIL-STD-348 interface dimensions - mate nondestructively with MIL-C-39012 connectors.

WEIGHT: Net 140 g (5 oz) **PHYSICAL DIMENSIONS:**



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

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