Model 1870A Broadband Resistive Power Splitter (Matching)

dc to 18.0 GHz 1 Watt

RoHS

Type N Connectors

ROFLEX



Features

These resistive power splitters are intended for RF and wireless applications in which one of the two outputs is included in a leveling loop or is used as a reference in a ratio system, for the purpose of providing an output signal whose source impedance is essentially matched to 50Ω . Some examples are:

- // A dual channel insertion loss measuring system (ratio).
- // A parallel IF substitution insertion loss measuring system (ratio or ALC loop).
- // A precision power source (ratio or ALC loop).

Specifications

NOMINAL IMPEDANCE: 50 Ω **FREQUENCY RANGE:** dc to 18.0 GHz **INSERTION LOSS:** 6 dB nominal, 7.5 dB maximum (Between Input and either output).

MAXIMUM INPUT POWER: 1 watt average, 1 kilowatt peak (Input connector only)

OUTPUT TRACKING (Between Ports):	
Frequency (GHz)	Tracking (maximum dB)
dc - 8 8 -18	0.15 0.20

PHASE TRACKING: <u>+</u>2° nominal between output ports POWER COEFFICIENT: < 0.005 dB/dB/watt TEMPERATURE COEFFICIENT: <0.0004 dB/dB/°C TEMPERATURE RANGE: -55°C to +85°C

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

MAXIMUM INPUT SWR:	
Frequency (GHz)	Maximum SWR
dc - 18	1.30

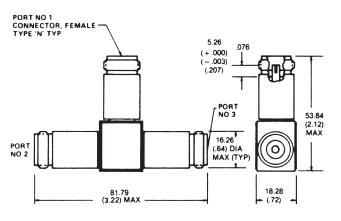
EQUIVALENT OUTPUT SWR (Port 2 & 3):		
Frequency (GHz)	Maximum SWR	
dc - 2	1.05	
2 - 4	1.07	
4 - 8	1.10	
8 - 18	1.15	

* When used in a leveling or ratio system.

TEST DATA: Insertion Loss, SWR, and Tracking measurements performed across the frequency band. Test data available at additional cost.

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

WEIGHT: Net 170 g (6 oz) PHYSICAL DIMENSIONS:



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.

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