Model 1534

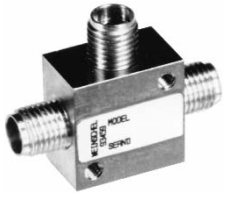
Broadband Resistive Power Splitter

(Matching), Subminiature, SMK Connectors

dc to 40.0 GHz

1 Watt

RoHS



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 where the resistive power splitter provides a reference and a signal channel for ratio meter.
- A parallel IF substitution insertion loss measuring system where the resistive power splitter provides a sampled output for leveling the signal source.
- A precision power source where a power meter of known characteristics is used, either by ratio or leveling to provide a calibrated output.

Specifications

NOMINAL IMPEDANCE: 50 Ω

FREQUENCY RANGE: dc to 40.0 GHz

INSERTION LOSS: 6 dB nominal, 8.0 dB maximum to 26.5, 10.5 dB to 40 GHz (Between input and either output)

MAXIMUM INPUT POWER: 1.0 watt CW (Input Connector only)

AMPLITUDE & PHASE RACKING (Maximum):

Frequency (GHz)	Tracking	
	Amplitude	Phase
dc - 18	<0.20 dB	<2°
18 - 26.5	<0.30 dB	<2°
26.5 - 40	<0.50 dB	<4°

MAXIMUM INPUT SWR:

Frequency (GHz)	Maximum SWR
dc - 18	1.25
18 - 26.5	1.40
26.5 - 40	1.60

EQUIVALENT OUTPUT SWR (Port 2 & 3):

Frequency (GHz)	Maximum SWR
dc - 26.5	1.35
26.5 - 40	160

*When used in a leveling or ration system.

TEMPERATURE RANGE:

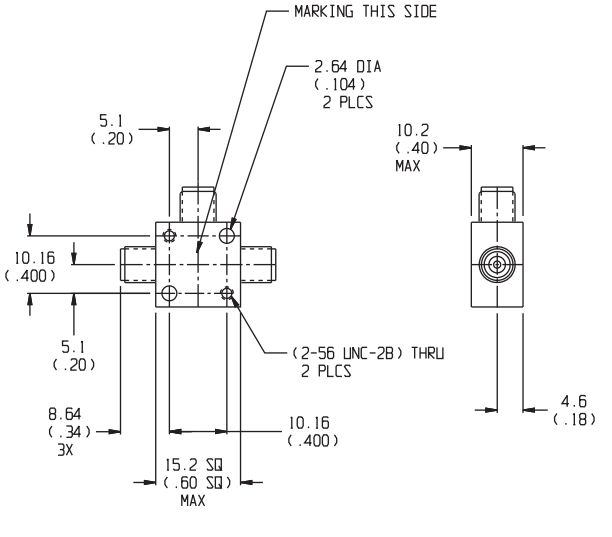
Operating: -55°C to +85°C
Storage: -55°C to +125°C

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

CONNECTORS: Female SMK (2.92mm) connectors all ports--mate nondestructively with SMA, 2.92mm and other 2.92mm and 3.5mm connectors.

WEIGHT: 25 g (0.9 oz) maximum

PHYSICAL DIMENSIONS:



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

5305 Spectrum Drive, Frederick, MD 21703-7362 • TEL: 301-846-9222, 800-638-2048 • Fax: 301-846-9116
web: www.aeroflex.com/weinschel • email: weinschel-sales@aeroflex.com

Revision Date: 9/30/2012