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Test & Measurement

- sales
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- repair
- disposal

Complimentary Reference Material

This PDF has been made available as a complimentary service for you to assist in evaluating this model for your testing requirements.

TMG offers a wide range of test equipment solutions, from renting short to long term, buying refurbished and purchasing new. Financing options, such as Financial Rental, and Leasing are also available on application.

TMG will assist if you are unsure whether this model will suit your requirements.

Call TMG if you need to organise repair and/or calibrate your unit.

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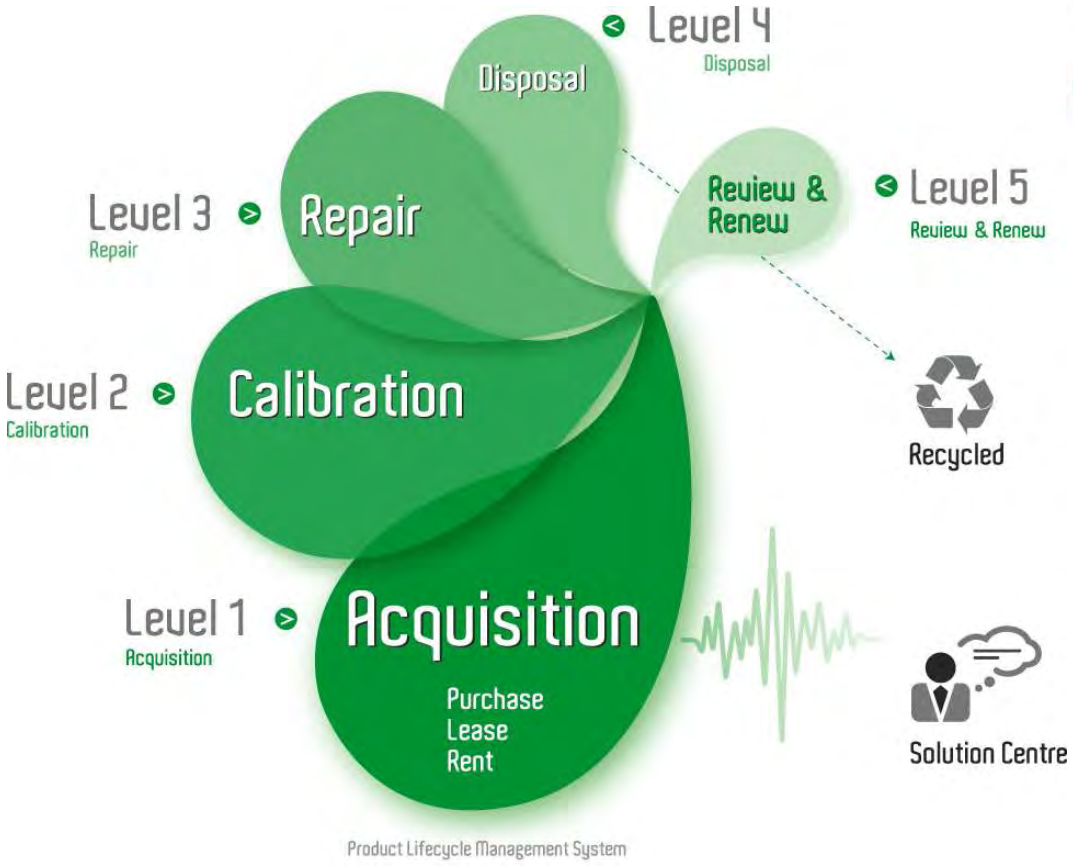


Broadband Resistive Power Splitter
MODEL 7PS-018

DC – 18.0 GHz **1 WATT**

Features

These resistive power splitters are intended for use with RF and wireless applications where one of the two outputs are included in a leveling loop or used as a reference in a ratio system providing an output signal whose source impedance is matched to 50 ohms.

MAXIMUM VSWR	
Frequency (GHz)	VSWR
DC – 18.0	1.30
Max if both output ports are terminated in 50 ohms.	

Specifications

NOMINAL IMPEDANCE: 50Ω

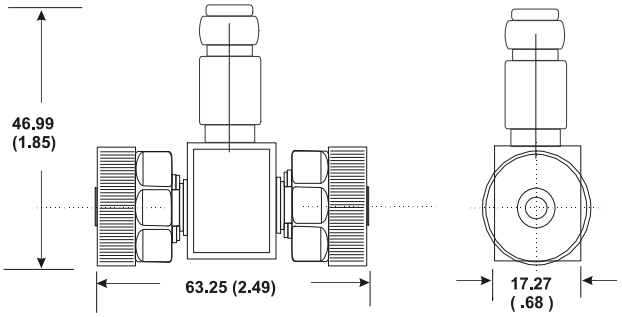
FREQUENCY RANGE: DC TO 18.0 GHz

INSERTION LOSS: (Between input & either output arm): 6 dB nominal, 7.5 dB maximum.

MAXIMUM INPUT POWER: 1.0 watt CW, 1 kilowatt peak (5µsec pulse width, 0.05 duty cycle) maximum (input connector only).

MAXIMUM BALANCE OF POWER DIVISION:

DC – 18.0 GHz	0.15 dB
8.0 – 18.0 GHz	0.20 dB
Typical	0.1 dB



PHYSICAL DIMENSIONS:

PHASE TRAKING: ±2° nominal between output ports

EQUIVALENT OUTPUT SWR: (Port 2 & 3 when in a leveling or ratio system)

DC – 2.0 GHz	1.05
2.0 – 4.0 GHz	1.07
4.0 – 8.0 GHz	1.10
8.0 – 18.0 GHz	1.15

POWER COEFFICIENT: <0.005 dB/dB x W

TEMPERATURE COEFFICIENT: <0.0004 dB/dB x °C

TEMPERATURE RANGE: -55°c to +85 °C

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

CONNECTORS: Type N stainless steel female (input) connector per MIL-STD-348A, interface nondestructively with MIL-PRF-39012 connectors. Precision 7mm (output). Meets or exceeds requirements of IEEE STD 287 and mates with all connectors conforming to design 2 of that standard.

WEIGHT: .17 kg (6 oz) maximum

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

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