MTH-50 / MTV-50



Two-Way Power Dividers, 1 - 100 MHz and 40 - 400 MHz

Rev. V3

Features

· Ideal for High Density Packaging

• High Isolation: 30 dB Min.

• VSWR: 1.3:1 Max.

• Impedance: 50 Ohms Nominal

Maximum Power Rating or Input Power: 1 Watt
 Max

• Internal Load Dissipation: 0.05 Watts Max.

• MIL-STD-883 Screening Available

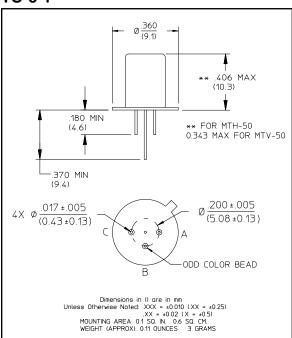
Description

A Power Divider is ideally a lossless reciprocal device which can also perform vector summation of two or more signals and thus is sometimes called a power combiner or summer.

Pin Configuration

Pin No.	Function	Pin No.	Function
Α	Out	С	Out
В	In		

TO-5-1



MTH-50 Electrical Specifications¹: $T_A = -55$ °C to +85°C

Parameter	Test Conditions	Frequency	Units	Min	Тур	Max
Frequency	_	1 - 100	MHz		_	
Insertion Loss	Less Coupling	1 - 100 MHz	dB	_	_	0.5
Isolation	_	1 - 100 MHz	dB	30	_	_
Amplitude Balance	_	1 - 100 MHz	dB	_	_	0.1
Phase Balance	_	1 - 100 MHz	0	_	_	1.0
VSWR	_	1 - 100 MHz	Ratio	_	_	1.3:1

MTV-50 Electrical Specifications¹: $T_A = -55$ °C to +85°C

Parameter	Test Conditions	Frequency	Units	Min	Тур	Max
Frequency	_	40 - 400 MHz	MHz	_	_	_
Insertion Loss	Less Coupling	40 - 400 MHz	dB	_	_	0.6
Isolation	_	40 - 400 MHz	dB	30	_	_
Amplitude Balance	_	40 - 400 MHz	dB	_	_	0.2
Phase Balance	_	40 - 400 MHz	0	_	_	2.0
VSWR	_	40 - 400 MHz	Ratio	_	_	1.3:1

1. All specification apply with 50 ohm source and load impedance.

Commitment to produce in volume is not guaranteed.

- North America Tel: 800.366.2266 Europe Tel: +353.21.244.6400
- India Tel: +91.80.4155721
 China Tel: +86.21.2407.1588
 Visit www.macomtech.com for additional data sheets and product information.

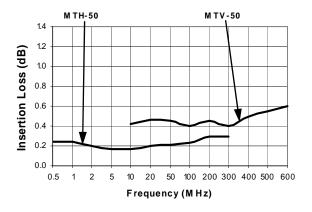


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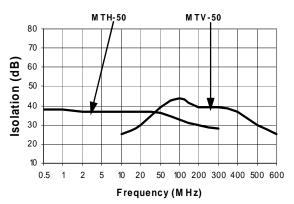
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Typical Performance Curves

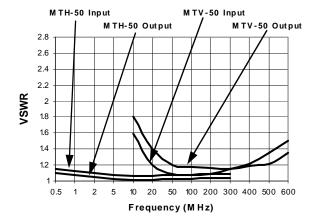
Insertion Loss - Ports 2 - 3, 2 - 1



Isolation - Ports 1 - 3



VSWR



Ordering Information

Part Number	Package
MTH-50 PIN	TO-5-1
MTV-50 PIN	TO-5-1

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