

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

Rev. V4

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

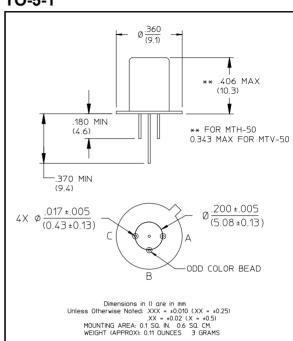
Description

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	٥	_	_	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.

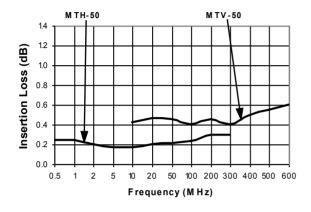


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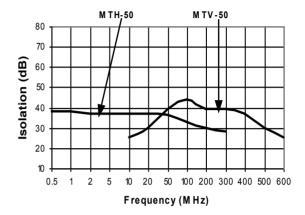
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Typical Performance Curves

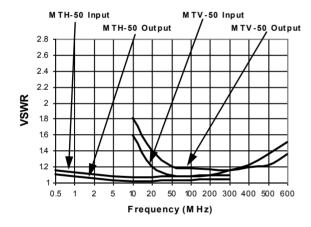
Insertion Loss - Ports 2 - 3, 2 - 1



Isolation - Ports 1 - 3



VSWR



Ordering Information

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

MTH-50 / MTV-50



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