M3H-50 / M3V-50



Three-Way Power Dividers, 1 - 100 MHz and 50 - 300 MHz

Rev. V3

Features

· Ideal for High Density Packaging

• High Isolation

VSWR: 1.3:1 Max.

• Impedance: 50 Ohms Nominal

Maximum Power Rating or Input Power: 1 Watt

• Internal Load Dissipation: 0.05 Watts Max.

• MIL-STD-202 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
P1	Out	P3	Out
P2	In	P4	Out

TO-5-2 0.360 DIA (9.1)0.406 MAX [(10.3 MAX) 0.370(9.4)0.180 ODD COLOR (4.6)BEAD 0.200 ±0.005 DIA (5.08 ± 0.13) 0.017 ±0.005 DIA (0.43 ± 0.13) 5 PINS

Dimensions in () are in mm. Unless Otherwise Noted: $.xxx = \pm 0.010$ ($.xx = \pm 0.25$)

.xx = ±0.02 (.x = ±0.5) MOUNTING AREA: 0.1 SQ. IN. 0.6 SQ. CM. WEIGHT (APPROX.): 0.11 OUNCES 3 GRAMS

M3H-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	_	_	0.2
Phase Balance	_	1 - 100 MHz	0	_	_	1.0
VSWR	_	1 - 100 MHz	Ratio	_	_	1.3:1

M3V-50 Electrical Specifications¹: $T_A = -55$ °C to +85°C

Parameter	Test Conditions	Frequency	Units	Min	Тур	Max
Frequency	_	50 - 300 MHz	MHz		_	
Insertion Loss	Less Coupling	50 - 300 MHz	dB	_	_	0.75
Isolation	_	50 - 300 MHz	dB	25	_	_
Amplitude Balance	_	50 - 300 MHz	dB	_	_	0.2
Phase Balance	_	50 - 300 MHz	۰	_	_	2.0
VSWR	_	50 - 300 MHz	Ratio	_	_	1.3:1

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

ADVANCED: Data Sheets contain information regarding a product M/A-COM Technology Solutions is considering for development. Performance is based on target specifications, simulated results, and/or prototype measurements. Commitment to develop is not guaranteed.

PRELIMINARY: Data Sheets contain information regarding a product M/A-COM Technology

Solutions has under development. Performance is based on engineering tests. Specifications are

typical. Mechanical outline has been fixed. Engineering samples

Commitment to produce in volume is not g

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 Visit www.macomtech.com for additional data sheets and product information.

M3H-50 / M3V-50

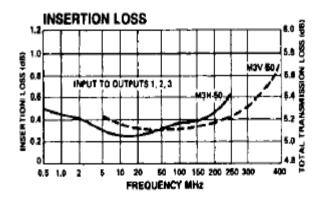


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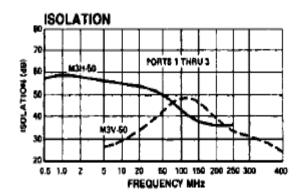
Rev. V3

Typical Performance Curves

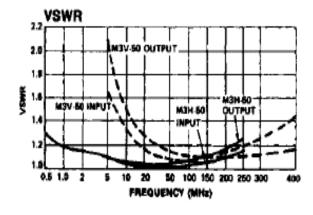
Insertion Loss - Ports 2 - 3, 2 - 1



Isolation - Ports 1 - 3



VSWR



Ordering Information

Part Number	Package
M3H-50 PIN	TO-5-2
M3V-50 PIN	TO-5-2

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