M3H-50 / M3V-50

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

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 Max.
- 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.

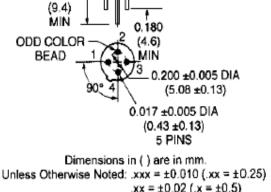
Pin Configuration

Pin No.	Function	Pin No.	Function
P1	Out	P3	Out
P2	In	P4	Out

a lossless reciprocal n vector summation of

TO-5-2

0.370



MOUNTING ADDA.	A LCO IN	
MOUNTING AREA:	0.1 SQ. IN.	0.6 SQ. CM.
WEIGHT (APPROX.):	0.11 OUNCES	3 GRAMS

M3H-50 Electrical Specifications¹: $T_A = -55^{\circ}C$ to $+85^{\circ}C$

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	o	_	—	1.0
VSWR	_	1 - 100 MHz	Ratio	l	_	1.3:1

M3V-50 Electrical Specifications¹: $T_A = -55^{\circ}C$ to $+85^{\circ}C$

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	0	—	—	2.0
VSWR	_	50 - 300 MHz	Ratio		_	1.3:1

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

1

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

PKELIMINARY: 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 and/or test data may be available. Commitment to produce in volume is not guaranteed.

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0.360 DIA

(9.1)

0.406 MAX

(10.3 MAX)

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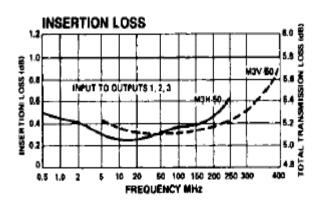
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M3H-50 / M3V-50

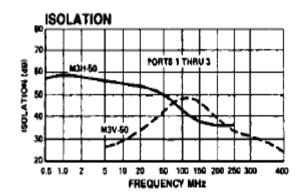
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Insertion Loss - Ports 2 - 3, 2 - 1



Isolation - Ports 1 - 3

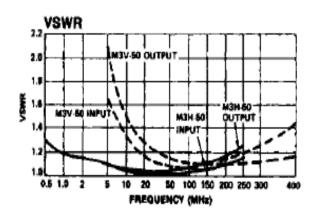


Ordering Information

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

VSWR

2



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