

Three-Way Power Divider, 1 - 300 MHz

Rev. V3

Features

• Low Loss: 0.5 dB Typical

Impedance: 50 Ohms Nominal

· Power Rating: 1W Max.

• Internal Load Dissipation: 0.05 W Max.

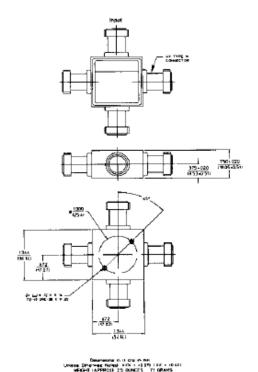
· Flatpack and Connectorized Packages

• MIL-STD-202 Screening Available

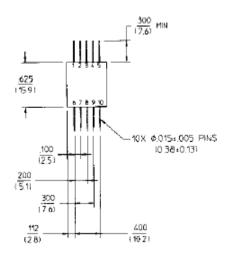
Description

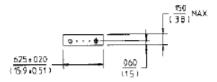
A Power Divider is ideally a lossless reciprocal device which can also perform vector summation of two or more signals and thus is sometimes called a power combiner or summer.

C-8 (DS-308)



FP-3 (DS-117)





Pin Configuration (DS-117)

Pin No.	Function	Pin No.	Function	
1	GND	5	Output	
2	GND	6	GND	
3	Input	7	Output	
4	GND	8	GND	
5	GND	10	Output	

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 and/or test data may be available. Commitment to produce in volume is not guaranteed. • North America Tel: 800.366.2266 • Europe Tel: +353.21.244.6400

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

DS-117 / 308



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DS-113 Electrical Specifications¹: $T_A = -55$ °C to +85°C

Parameter	Test Conditions	Frequency	Units	Min	Тур	Max
Insertion Loss	Less Coupling	2 - 200 MHz 1 - 300 MHz	dB dB	_ _	_ _	0.75 1.0
Isolation	_	2 - 200 MHz 1 - 300 MHz	dB dB	30 20		_
Amplitude Balance	-	1 - 300 MHz	dB	_	_	0.25
Phase Balance	_	2 - 200 MHz 1 - 300 MHz	0	_	_	3 4
VSWR	All Ports	2 - 200 MHz 1 - 300 MHz	Ratio Ratio	_	_	1.3:1 1.5:1

^{1.} All specifications apply with 50 ohm source and load impedance.

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Typical Performance Curves

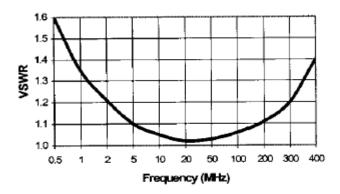
Insertion Loss

Insertion Loss

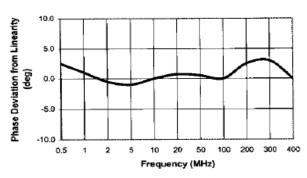
VSWR

Insertion Loss (dB) 0.0 300 100 200 Frequency (MHz)

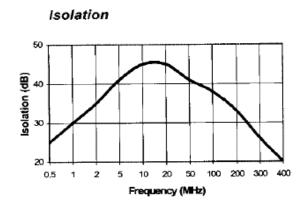
VSWR



Phase Linearity



Isolation



Ordering Information

Part Number	Package
DS-117 PIN	FP-3
DS-308 BNC	C-8
DS-308 N	C-8
DS-308 SMA	C-8

changes to the product(s) or information contained herein without notice.

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MACOM:

DS-117-PIN DS-308-N