

Electronics

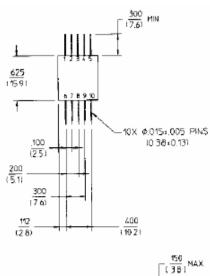
Three-Way Power Divider, 1 - 300 MHz

Features

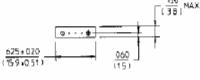
- Low Loss: 0.5 dB Typical
- Impedance: 50 Ohms Nominal
- Power Rating: 1W Max.
- Internal Load Dissipation: 0.05 W Max.
- Flatpack and Connectorized Packages
- MIL-STD-202 Screening Available

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.



FP-3 (DS-117)



Dimensions o U are in nm Unless Otherwise Noted XXX = +0.010 (XX = +0.25) XX = +0.02 (X = +0.5) WEIGHT LAPPROX: 0.12 OUNCES 3.4 GRAMS

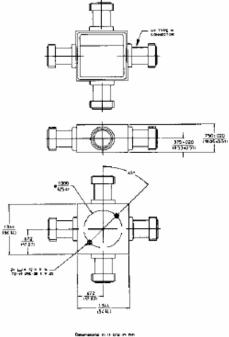
Pin Configuration (DS-117)

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	

- North America Tel: 800.366.2266 / Fax: 978.366.2266
- Europe Tel: 44.1908.574.200 / Fax: 44.1908.574.300
- Asia/Pacific Tel: 81.44.844.8296 / Fax: 81.44.844.8298

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

C-8 (DS-308)



Desenances in the cruite net Unique Difference Relies XXX + 2007 102 + 40400 wEIGHT (APPROX 25 OLIVETS) 71 GRAMS

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DS-117/308 V3





Three-Way Power Divider, 1 - 300 MHz

DS-117/308 V3

DS-113 Electrical Specifications¹: $T_A = -55^{\circ}C$ to +85°C

Parameter	Test Conditions	Frequency	Units	Min	Тур	Мах
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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²

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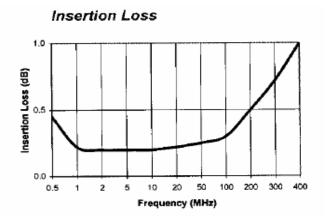


Three-Way Power Divider, 1 - 300 MHz

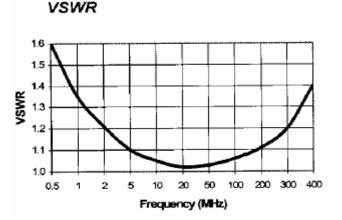


Typical Performance Curves

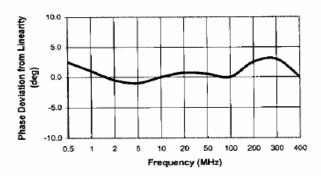
Insertion Loss







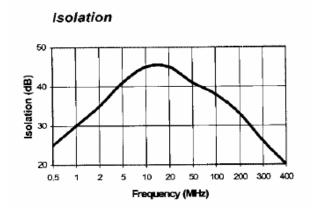
Phase Linearity



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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		

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