

Electronics

## Two-Way Power Divider, 400 KHz - 400 MHz



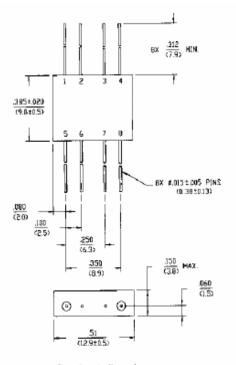
## DS-/DSS-113 V3

### Features

- Fully Hermetic Package (DSS-113)
- Three Decade Bandwidth
- Low Loss: 0.25 dB Typical
- Impedance: 50 Ohms Nominal
- Maximum Power Rating or Input Power: 1W Max.
- Internal Load Dissipation: 0.05 W Max.
- MIL-STD-202 Screening Available

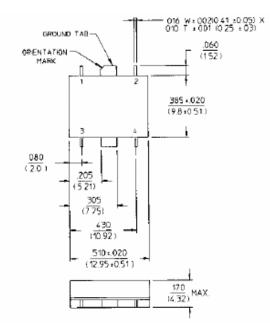
#### Description

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.



FP-2 (DS-113)

### SF-1 (DSS-113)



Unersions in 0 ore in hm Unless Otherwise Noted: XXX - +0 010 XX + 40 02 WEIGHT (APPROXI- 0.07 OUNCES - 2 GRAMS)

M/A-COM Inc. and its affiliates reserve the right to make changes to the

Dimensions in O are in nn Unless Dimension Notra: XXX =  $\pm 0.010$  (XX =  $\pm 0.020$ XX =  $\pm 0.02$  (X =  $\pm 0.02$ ) WEIGHT (APPRDX): 0.09 DUNCES = 275 (GANS

## Pin Configuration (DS-113)

Pin No.	Function	Pin No.	Function
1	Σ	5	GND
2	GND	6	GND
3	GND	7	GND
4	Output C	8	Output D

## **Pin Configuration (DSS-113)**

Pin No.	Function	Pin No.	Function
1	Σ	3	GND
2	Output C	4	Output D

• 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

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# Two-Way Power Divider, 400 KHz - 400 MHz

DS-/DSS-113 V3

# DS-113 Electrical Specifications<sup>1</sup>: $T_A = -55^{\circ}C$ to +85°C

Parameter	Test Conditions	Frequency	Units	Min	Тур	Мах
Insertion Loss	Less Coupling	0.4 - 400 MHz	dB	_	_	0.75
Isolation	_	0.4 - 400 MHz	dB	25	_	_
Amplitude Balance	_	0.4 - 400 MHz	dB	_	_	0.15
Phase Balance	_	0.4 - 400 MHz	o	_	_	1.0
VSWR	All Ports	0.4 - 400 MHz	Ratio		_	1.5:1

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Amplitude Balance	_	0.4 - 400 MHz	dB	_	_	0.15
Phase Balance	_	0.4 - 400 MHz	o	_	-	1.5
VSWR	All Ports	0.4 - 400 MHz	Ratio		_	1.6:1

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

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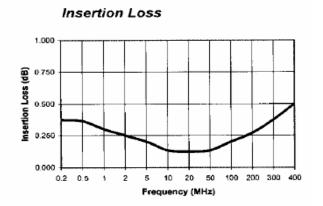


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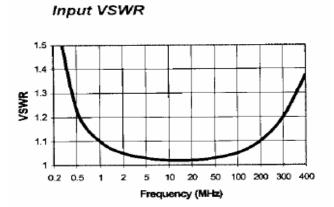


### **Typical Performance Curves**

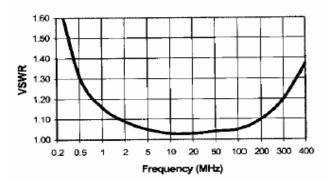
#### Insertion Loss



VSWR



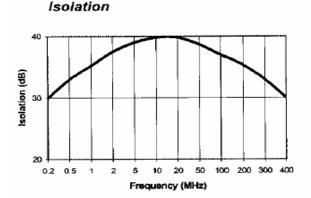
#### Output VSWR



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#### Isolation



## **Ordering Information**

Part Number	Package
DS-113 PIN	FP-2
DSS-113 PIN	SF-1

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