

Two-Way Power Divider, 400 KHz - 400 MHz

Rev. V3

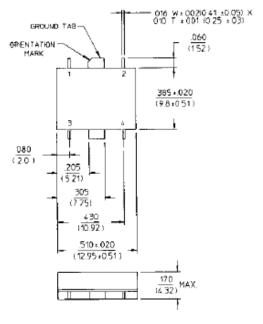
Features

- 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.

SF-1 (DSS-113)

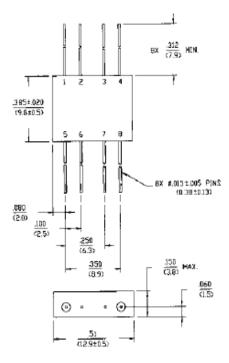


Unless Otherwise Noted XXX - 40 010

XX - 40 02

WEIGHT (APPROXI- 0.07 DUNCES 2 GRAM)

FP-2 (DS-113)



Dinensions in Chanc in nn
Unless Dinerwise Noted: XXX = ±008 (XX = ±0.25)

XX = ±0.02 (X = ±0.03)

WEIGHT CAPPRIXX: 0.09 DUNCES = 255 GRANS

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

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

DS-/DSS-113



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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	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

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

Parameter	Test Conditions	Frequency	Units	Min	Тур	Max
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	_	_	1.5
VSWR	All Ports	0.4 - 400 MHz	Ratio	_	_	1.6:1

Commitment to produce in volume is not guaranteed.

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

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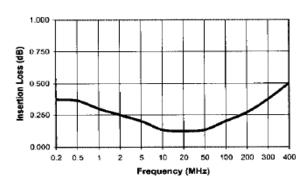
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Typical Performance Curves

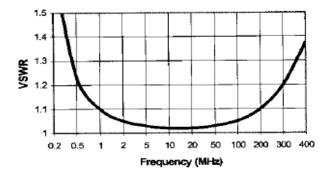
Insertion Loss

Insertion Loss

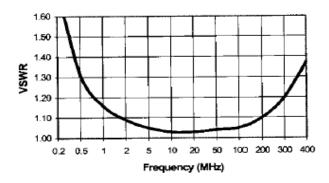


VSWR

Input VSWR

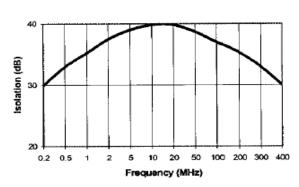


Output VSWR



Isolation

Isolation



Ordering Information

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

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