

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

Rev. V4

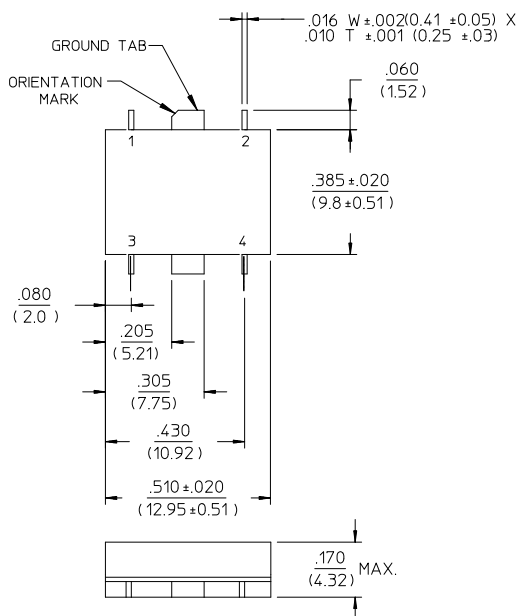
### Features

- Fully Hermetic Package (DSS-113)
- Three Decade Bandwidth
- Low Loss: 0.25 dB
- Impedance: 50 Ω nominal
- Maximum Power Rating or Input Power: 1 Watt
- Internal Load Dissipation: 0.05 Watts max.
- MIL-STD-202 Screening Available

### Description

A power divider is ideally a loss less 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)



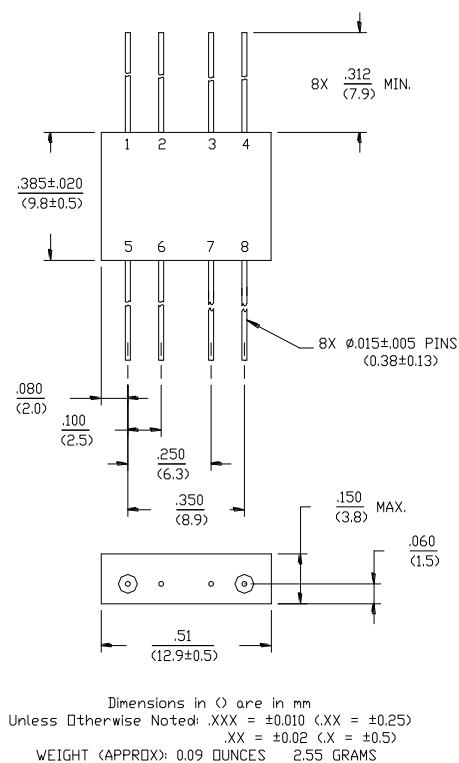
### Pin Configuration (DSS-113)

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

### Ordering Information

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

### FP-2 (DS-113)



### 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

**DS-113 Electrical Specifications<sup>1</sup>: Freq. = 0.4 - 400 MHz, T<sub>A</sub> = -55°C to +85°C**

Parameter	Test Conditions	Units	Min.	Typ.	Max.
Insertion Loss <sup>2</sup>	Less Coupling	dB	—	—	0.75
Isolation	—	dB	25	—	—
Amplitude Balance	—	dB	—	—	0.15
Phase Balance	—	°	—	—	1.0
VSWR	All Ports	Ratio	—	—	1.5:1

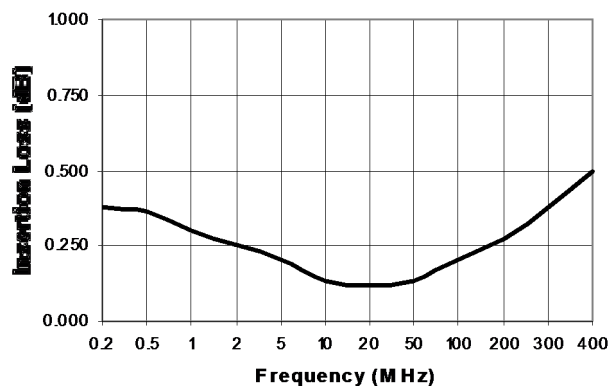
**DSS-113 Electrical Specifications<sup>1</sup>: Freq. = 0.4 - 400 MHz, T<sub>A</sub> = -55°C to +85°C**

Parameter	Test Conditions	Units	Min.	Typ.	Max.
Insertion Loss <sup>2</sup>	Less Coupling	dB	—	—	0.75
Isolation	—	dB	25	—	—
Amplitude Balance	—	dB	—	—	0.15
Phase Balance	—	°	—	—	1.5
VSWR	All Ports	Ratio	—	—	1.6:1

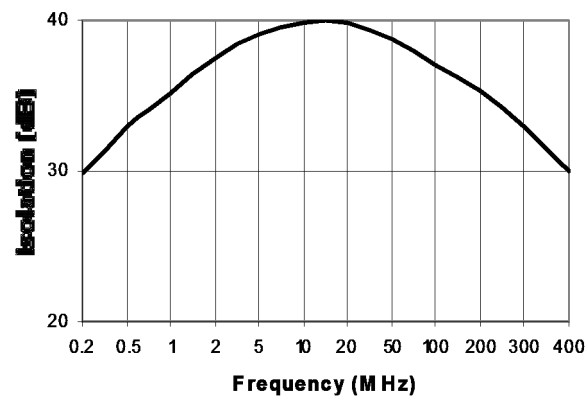
1. All specifications apply with 50 ohm source and load impedance.

## Typical Performance Curves:

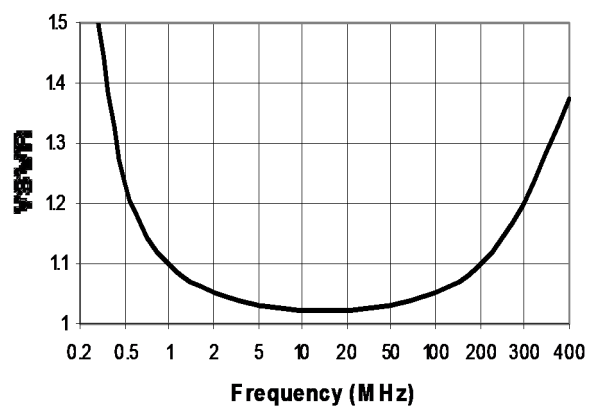
**Insertion Loss**



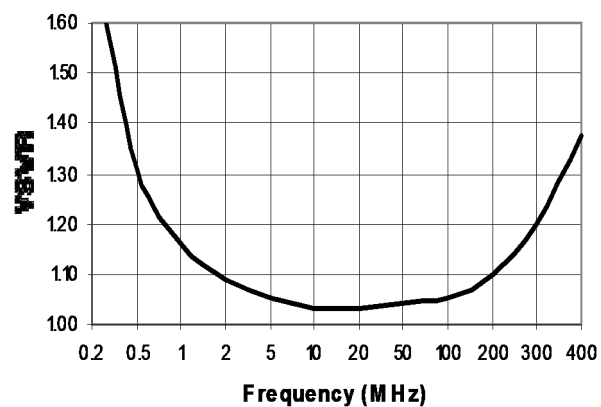
**Isolation**



**Input VSWR**



**Output VSWR**



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