

Flatpack Two-Way Power Divider, 5 - 1000 MHz

Rev. V3

Features

- n Broadband, IN Phase Divider
- n Low Loss: 0.3 dB Typical
- n Amplitude Balance: 0.05 dB Typical
- n Impedance: 50 Ohms Nominal
- n Maximum Power Rating or Input Power: 1 Watt Max.
- n Internal Load Dissipation: 0.05 Watts Max.
- n MIL-STD-883 Screening Available

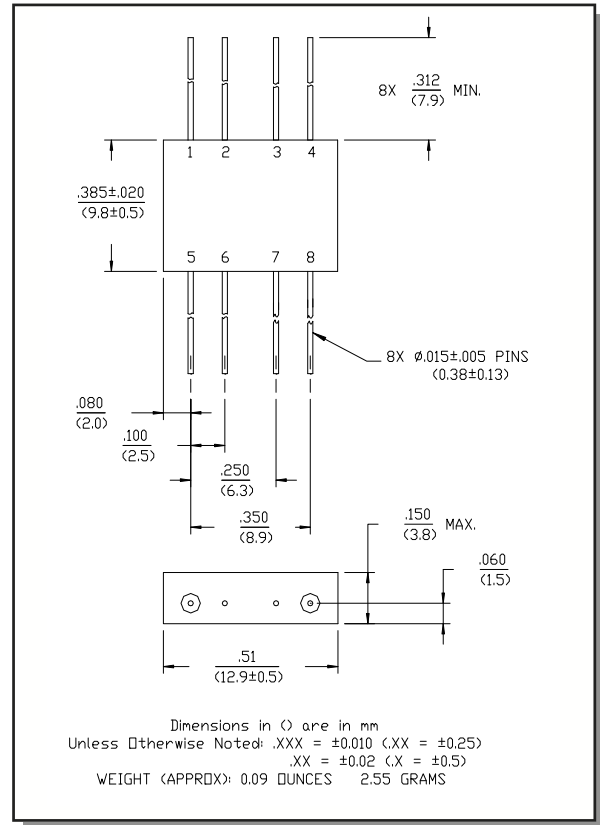
Description

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.

Pin Configuration

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

FP-2



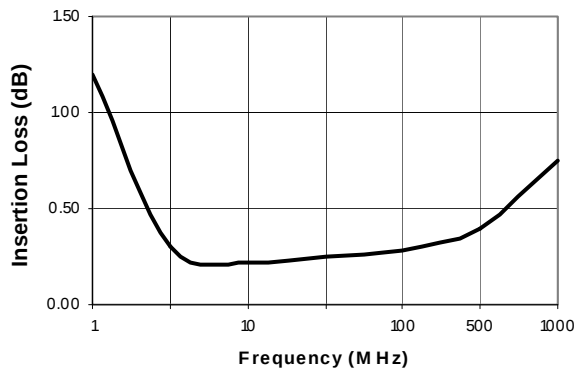
Electrical Specifications¹: $T_A = -55^\circ\text{C}$ to $+85^\circ\text{C}$

Parameter	Test Conditions	Frequency	Units	Min	Typ	Max
Insertion Loss	Less Coupling	5 - 500 MHz	dB	—	—	0.5
		500 - 1000 MHz	dB	—	—	1.0
Isolation	—	5 - 500 MHz	dB	25	—	—
		500 - 1000 MHz	dB	20	—	—
Amplitude Balance	—	5 - 1000 MHz	dB	—	—	0.2
Phase Balance	—	5 - 500 MHz	$^\circ$	—	—	2
		500 - 1000 MHz	$^\circ$	—	—	3
VSWR	Input Output	10 - 500 MHz	Ratio	—	—	1.3:1
		5 - 1000 MHz	Ratio	—	—	1.5:1

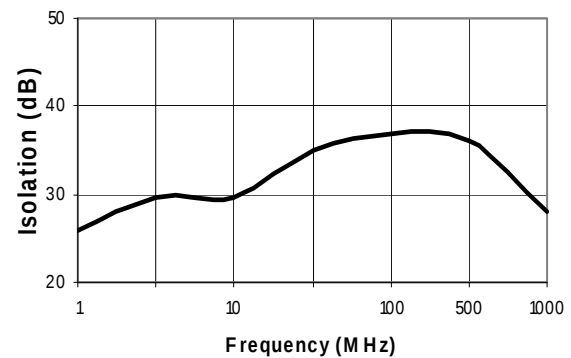
1. All specifications apply with 50 ohm source and load impedance.

Typical Performance Curves

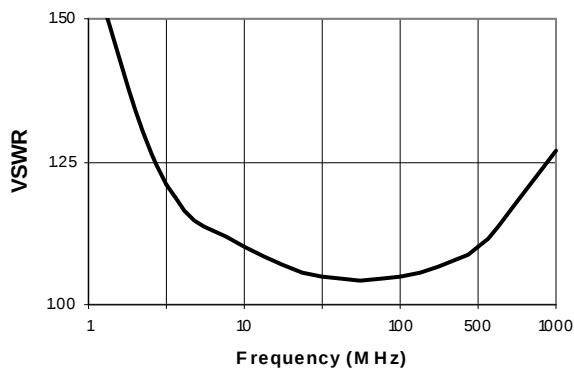
Insertion Loss



Isolation



VSWR



Ordering Information

Part Number	Package
DS-327 PIN	FP-2