

## Flatpack Three-Way Power Divider 25-1000 MHz

Rev. V4

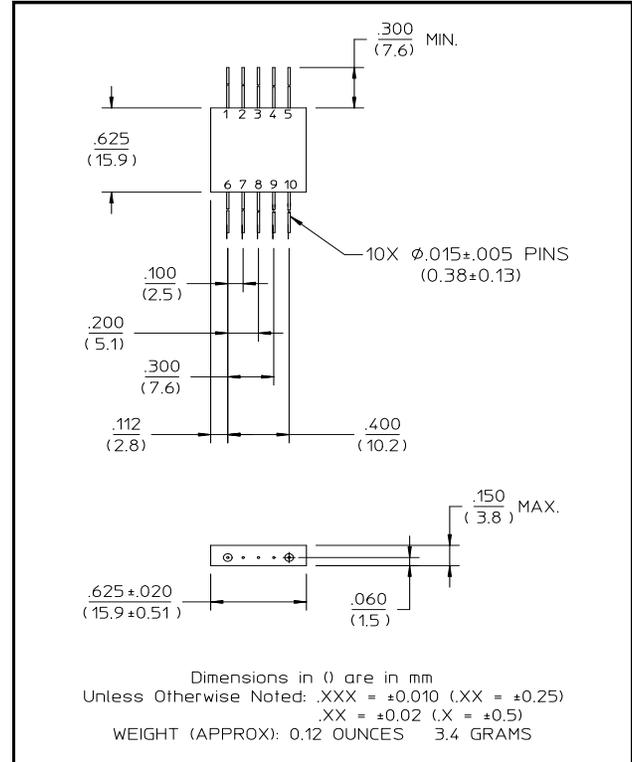
### Features

- Insertion Loss: 0.4 dB Typical Midband
- Isolation: 35 dB Typical Midband
- Input VSWR: 1.2:1 Typical
- Impedance: 50 Ohms Nominal
- Maximum Power Rating or Input Power: 1 Watt Max.
- Internal Load Dissipation: 0.05 Watts 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-3



### Pin Configuration

Pin No.	Function	Pin No.	Function
1	GND	6	Output
2	GND	7	GND
3	Input	8	Output
4	GND	9	GND
5	GND	10	Output

### Ordering Information

Part Number	Package
DS-323 PIN	FP-3

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### Electrical Specifications<sup>1</sup>: T<sub>A</sub> = -55°C to +85°C

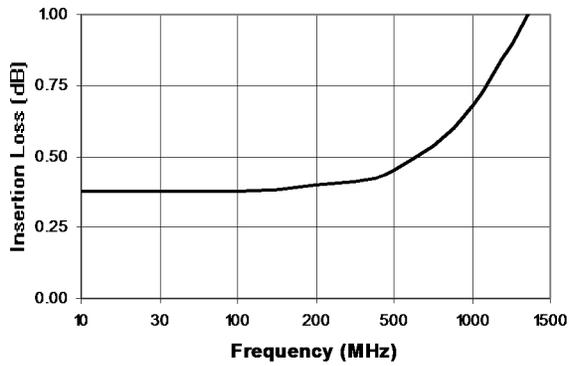
Parameter	Test Conditions	Frequency	Units	Min	Typ	Max
Insertion Loss	Less Coupling	25 - 200 MHz	dB	—	—	0.5
		200 - 1000 MHz	dB	—	—	1.0
Isolation	—	25 - 50 MHz	dB	15	—	—
		50 - 200 MHz	dB	22	—	—
		200 - 1000 MHz	dB	24	—	—
Amplitude Balance	—	25 - 200 MHz	dB	—	—	0.25
		200 - 1000 MHz	dB	—	—	0.4
Phase Balance	—	25 - 200 MHz	°	—	—	2
		200 - 1000 MHz	°	—	—	4
VSWR	Input Output	25 - 1000 MHz	Ratio	—	—	1.4:1
		25 - 50 MHz	Ratio	—	—	1.9:1
		50 - 200 MHz	Ratio	—	—	1.7:1
		200 - 1000 MHz	Ratio	—	—	1.5:1

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

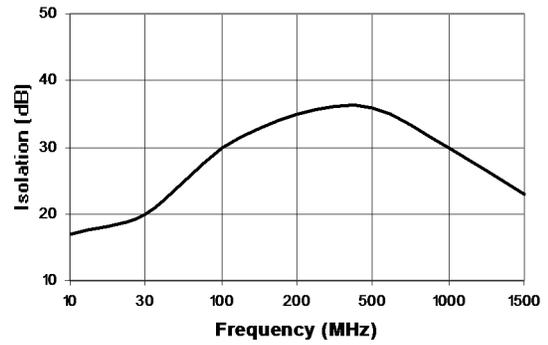
This product contains elements protected by United States Patent Number 3,428,920.

### Typical Performance Curves

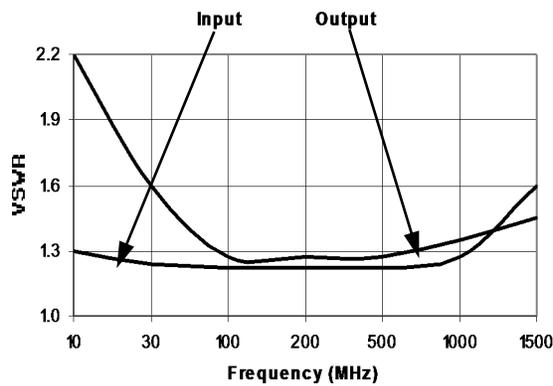
*Insertion Loss*



*Isolation*



*VSWR*



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