

Flatpack Four-Way Power Divider, 25 - 1000 MHz

Rev. V5

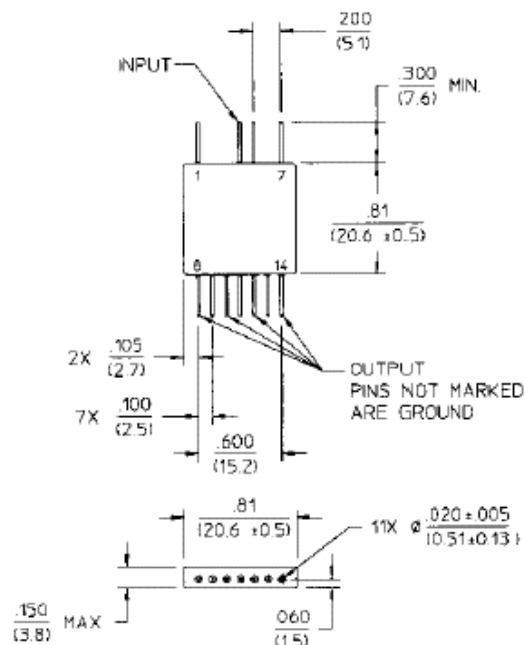
Features

- Insertion Loss: 0.5 dB Typical Mid-band
- Isolation: 38 dB Typical Mid-band
- VSWR: 1.2:1 Typical Mid-band
- Impedance: 50 Ohms Nominal
- Maximum Power Rating or Input Power: 1 Watt Max.
- Internal Load Dissipation: 0.05 Watts Max.
- MIL-STD-883 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

FP-5



Dimensions in ϕ are in mm
Unless Otherwise Noted: XXX = ± 0.010 (XX = ± 0.25)
XX = ± 0.02 (X = ± 0.5)
WEIGHT (APPROX): 0.21 OUNCES 6 GRAMS

Ordering Information

Part Number	Package
DS-324 PIN	FP-5

Pin Configuration

Pin No.	Function	Pin No.	Function
1	GND	8	Output
2	None	9	GND
3	None	10	Output
4	Input	11	GND
5	GND	12	Output
6	None	13	GND
7	GND	14	Output

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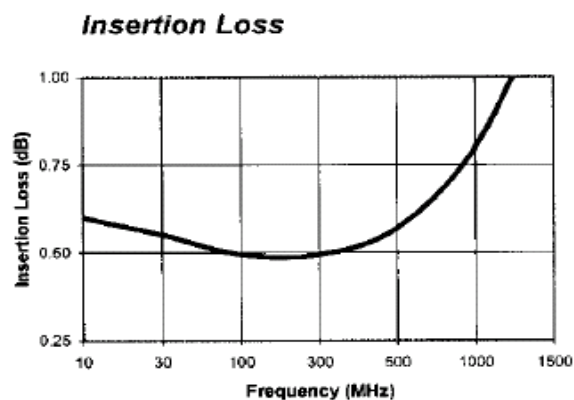
Electrical Specifications¹: $T_A = -55^{\circ}\text{C}$ to $+85^{\circ}\text{C}$

Parameter	Test Conditions	Frequency	Units	Min	Typ	Max
Insertion Loss	Less Coupling	25 - 200 MHz 25 - 1000 MHz	dB dB	— —	— —	0.75 1.0
Isolation	—	25 - 1000 MHz	dB	20	—	—
Amplitude Balance	—	25 - 1000 MHz	dB	—	—	0.25
Phase Balance	—	25 - 500 MHz 500 - 1000 MHz	° °	— —	— —	3 6
VSWR	Input Output	25 - 500 MHz 500 - 1000 MHz	Ratio Ratio	— —	— —	1.3:1 1.4:1

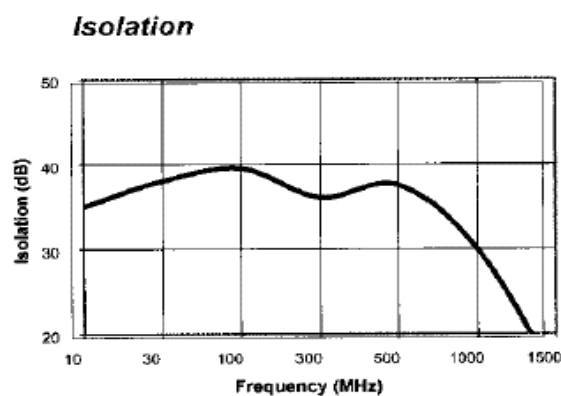
1. All specifications apply with 50 ohm source and load impedance.
This product contains elements protected by United States Patent Number 3,428,920.

Typical Performance Curves

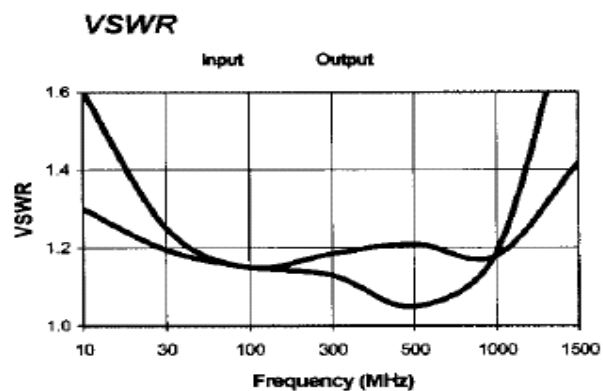
Insertion Loss



Isolation



VSWR



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