

Flatpack Four-Way Power Divider, 0.2 - 300 MHz

Rev. V4

Features

- Insertion Loss: 0.5 dB Typical
- VSWR: 1.1:1 Typical Miband
- Impedance: 50 Ohms Nominal
- Maximum Power Rating or Input Power: 1 Watt Max.
- Internal Load Dissipation: 50 Watts Max.
- MIL-STD-883 Screening Available

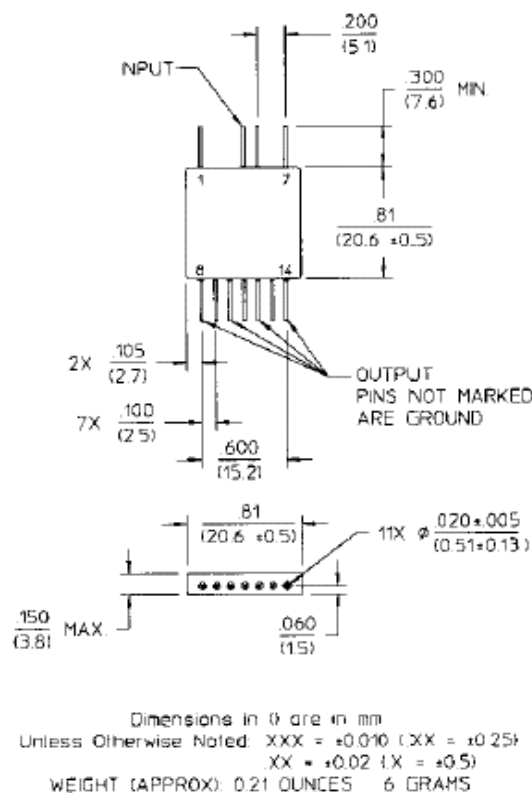
FP-5

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.

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



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	0.3 - 0.5 MHz	dB	—	—	1.0
		0.5 - 100 MHz	dB	—	—	0.5
		100 - 300 MHz	dB	—	—	1.0
Isolation	—	0.3 - 0.5 MHz	dB	20	—	—
		0.5 - 100 MHz	dB	25	—	—
		100 - 300 MHz	dB	15	—	—
Amplitude Balance	—	0.3 - 0.5 MHz	dB	—	—	0.2
		0.5 - 100 MHz	dB	—	—	0.2
		100 - 300 MHz	dB	—	—	0.4
Phase Balance	—	0.3 - 0.5 MHz	°	—	—	1.5
		0.5 - 100 MHz	°	—	—	4.0
		100 - 300 MHz	°	—	—	6.0
VSWR	All Ports	0.3 - 0.5 MHz	Ratio	—	—	2.0:1
		0.5 - 100 MHz	Ratio	—	—	1.3:1
		100 - 300 MHz	Ratio	—	—	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.

ADVANCED: Data Sheets contain information regarding a product M/A-COM Technology Solutions is considering for development. Performance is based on target specifications, simulated results, and/or prototype measurements. Commitment to develop is not guaranteed.

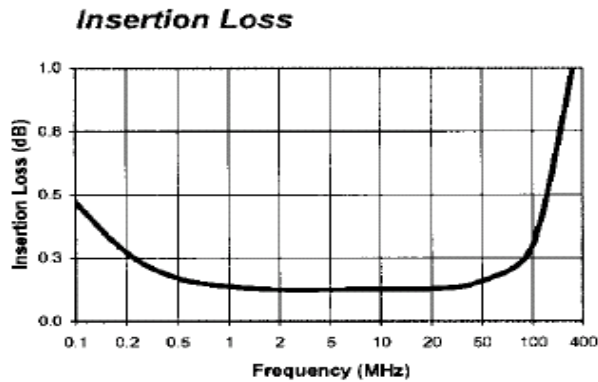
PRELIMINARY: Data Sheets contain information regarding a product M/A-COM Technology Solutions has under development. Performance is based on engineering tests. Specifications are typical. Mechanical outline has been fixed. Engineering samples and/or test data may be available. Commitment to produce in volume is not guaranteed.

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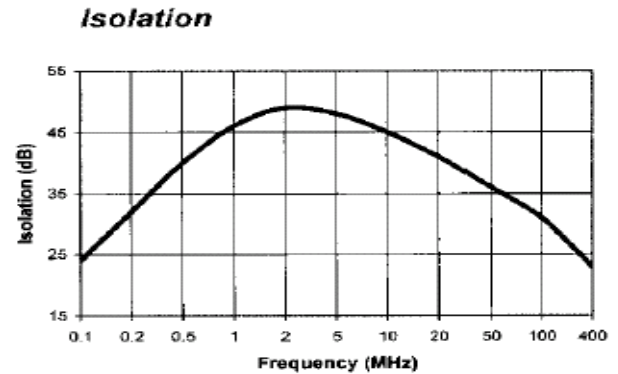
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Typical Performance Curves

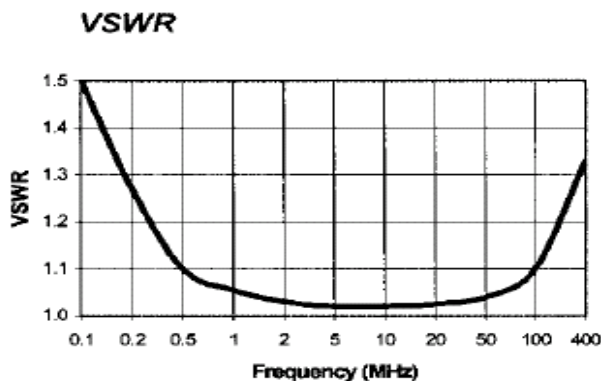
Insertion Loss



Isolation



VSWR



Ordering Information

Part Number	Package
DS-310 PIN	FP-5

Mouser Electronics

Authorized Distributor

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