

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

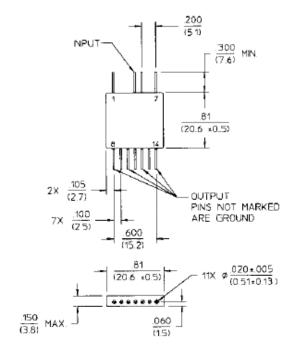
Description

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	

FP-5



Electrical Specifications¹: $T_A = -55$ °C to +85°C

Parameter	Test Conditions	Frequency	Units	Min	Тур	Max
Insertion Loss	Less Coupling	0.3 - 0.5 MHz 0.5 - 100 MHz 100 - 300 MHz	dB dB dB			1.0 0.5 1.0
Isolation		0.3 - 0.5 MHz 0.5 - 100 MHz 100 - 300 MHz	dB dB dB	20 25 15	_ _ _	_ _ _
Amplitude Balance	_	0.3 - 0.5 MHz 0.5 - 100 MHz 100 - 300 MHz	dB dB dB	_ _ _	_ _ _	0.2 0.2 0.4
Phase Balance	_	0.3 - 0.5 MHz 0.5 - 100 MHz 100 - 300 MHz	0	_ _ _	_ _ _	1.5 4.0 6.0
VSWR	All Ports	0.3 - 0.5 MHz 0.5 - 100 MHz 100 - 300 MHz	Ratio Ratio Ratio	_ _ _	_ _ _	2.0:1 1.3:1 1.4:1

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

Commitment to produce in volume is not guaranteed.

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

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- India Tel: +91.80.4155721
 China Tel: +86.21.2407.1588
 Visit www.macomtech.com for additional data sheets and product information.



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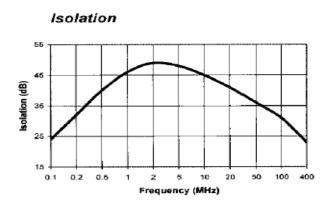
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Typical Performance Curves

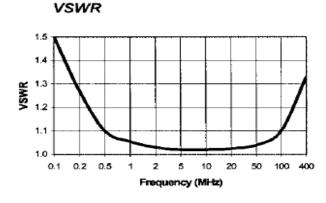
Insertion Loss

Insertion Loss 1.0 lusertion Loss (dB) 20 100 0.1 0.2 0.5 10 Frequency (MHz)

Isolation



VSWR



Ordering Information

Part Number	Package		
DS-310 PIN	FP-5		

- India Tel: +91.80.4155721
- China Tel: +86.21.2407.1588 Visit www.macomtech.com for additional data sheets and product information.