

Flatpack Two-Way Power Divider 5-1000 MHz

Rev. V3

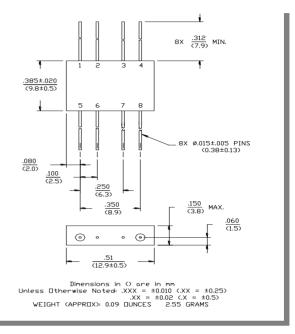
Features

- 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.

Functional Schematic



Pin Configuration³

Pin No.	Function	Pin No.	Function	
1	Σ	11	GND	
2	GND	12	GND	
3	GND	13	GND	
4	Output C	14	Output D	

Ordering Information^{1,2}

Part Number	Package		
DS-327 PIN	FP-2		

- 1. Reference Application Note M513 for reel size information.
- 2. All sample boards include x loose parts.

- MACOM recommends connecting unused package pins to ground.
- The exposed pad centered on the package bottom must be connected to RF, DC and thermal ground.

^{*} Restrictions on Hazardous Substances, European Union Directive 2011/65/EU.



Flatpack Two-Way Power Divider 5-1000 MHz

Rev. V3

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

Parameter	Test Conditions	Frequency	Units	Min	Тур	Max
Insertion Loss	Less Coupling	5 - 500 MHz 500 - 1000 MHz	dB dB	_	_	0.5 1.0
Isolation	_	5 - 500 MHz 500 - 1000 MHz	dB dB	25 20	_	_
Amplitude Balance	_	5 - 1000 MHz	dB	_	_	0.2
Phase Balance	_	5 - 500 MHz 500 - 1000 MHz	0	_	_	2 3
VSWR	Input Output	10 - 500 MHz 5 - 1000 MHz	Ratio Ratio	_	_	1.3:1 1.5:1

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

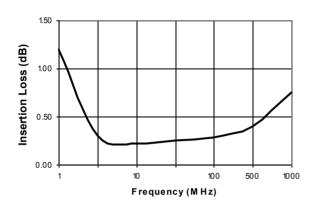


Flatpack Two-Way Power Divider 5-1000 MHz

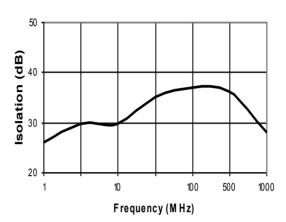
Rev. V3

Typical Performance Curves

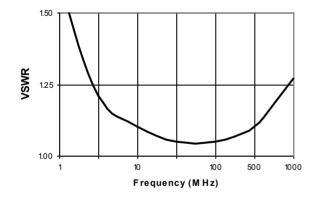
Insertion Loss



Isolation



VSWR



DS-327



Flatpack Two-Way Power Divider 5-1000 MHz

Rev. V3

M/A-COM Technology Solutions Inc. All rights reserved.

Information in this document is provided in connection with M/A-COM Technology Solutions Inc ("MACOM") products. These materials are provided by MACOM as a service to its customers and may be used for informational purposes only. Except as provided in MACOM's Terms and Conditions of Sale for such products or in any separate agreement related to this document, MACOM assumes no liability whatsoever. MACOM assumes no responsibility for errors or omissions in these materials. MACOM may make changes to specifications and product descriptions at any time, without notice. MACOM makes no commitment to update the information and shall have no responsibility whatsoever for conflicts or incompatibilities arising from future changes to its specifications and product descriptions. No license, express or implied, by estoppels or otherwise, to any intellectual property rights is granted by this document.

THESE MATERIALS ARE PROVIDED "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESS OR IMPLIED, RELATING TO SALE AND/OR USE OF MACOM PRODUCTS INCLUDING LIABILITY OR WARRANTIES RELATING TO FITNESS FOR A PARTICULAR PURPOSE, CONSEQUENTIAL OR INCIDENTAL DAMAGES, MERCHANTABILITY, OR INFRINGEMENT OF ANY PATENT, COPYRIGHT OR OTHER INTELLECTUAL PROPERTY RIGHT. MACOM FURTHER DOES NOT WARRANT THE ACCURACY OR COMPLETENESS OF THE INFORMATION, TEXT, GRAPHICS OR OTHER ITEMS CONTAINED WITHIN THESE MATERIALS. MACOM SHALL NOT BE LIABLE FOR ANY SPECIAL, INDIRECT, INCIDENTAL, OR CONSEQUENTIAL DAMAGES, INCLUDING WITHOUT LIMITATION, LOST REVENUES OR LOST PROFITS, WHICH MAY RESULT FROM THE USE OF THESE MATERIALS.

MACOM products are not intended for use in medical, lifesaving or life sustaining applications. MACOM customers using or selling MACOM products for use in such applications do so at their own risk and agree to fully indemnify MACOM for any damages resulting from such improper use or sale.

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

MACOM: DS-327-PIN