

Two-Way Power Divider, 750 - 1500 MHz

Rev. V3

Features

Phase Blanace: 2° Typical

Isolation: 20 dB Typical Midband

Input VSWR: 1.5:1 Typical Midband

• Impedance: 50 Ohms Nominal

· Maximum Power Rating or Input Power: 1 Watt Max.

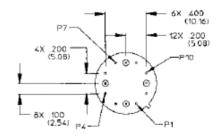
• Internal Load Dissipation: 0.1 Watts Max.

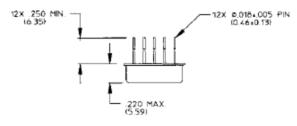
MIL-STD-202 Screening Available

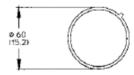
Description

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.

TO-8-2







Botton of Case is AC Ground Dimensions in 0 are in mix. Unless Otherwise Noted .XXX = \star 0.010 (XX = \star 0.25) .XX = \star 0.02 (X = \star 0.51

Ordering Information

Part Number	Package
DS-331 PIN	TO-8-2

Pin Configuration

Pin No.	Function	Pin No.	Function
1	Output D	7	
2	GND	8	GND
3		9	Output C
4	GND	10	
5	Σ	11	
6	GND	12	

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



Two-Way Power Divider, 750 - 1500 MHz

Rev. V3

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

Parameter	Test Conditions	Frequency	Units	Min	Тур.	Max
Insertion Loss	Less Coupling	750 - 1500 MHz	dB	_	-	0.4
Isolation	_	750 - 1500 MHz	dB	10	-	-
Amplitude Balance	_	750 - 1500 MHz	dB	_	-	0.2
Phase Balance	_	750 - 1500 MHz	ō	_	-	6
VSWR	Input Output	750 - 1500 MHz 750 - 1500 MHz	Ratio Ratio	_		1.7:1 1.3:1



Two-Way Power Divider, 750 - 1500 MHz

Rev. V3

Typical Performance Curves

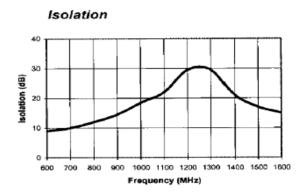
Insertion Loss

0.40 0.40 0.20 0.10 0.00

Frequency (MHz)

1000 1100 1200 1300 1400 1500 1600

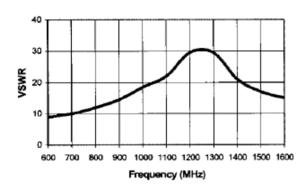
Isolation



VSWR

VSWR

800



DS-331



Two-Way Power Divider, 750 - 1500 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.