MAPD-009278-5T1000



E-Series RF 2-Way 0° Power Divider 5-1000 MHz

M/A-COM Products - Rev. V2

Features

- 2-Way 0 Degree
- Surface Mount
- Tape and reel packaging available
- 260°C Reflow Compatible
- RoHS* compliant

Description

M/A-COM's MAPD-009278-5T1000 is a RoHS Compliant 2-way 0 degree RF power divider in a low cost, surface mount package. Ideally suit for 500hm system. Two 1.5pF capacitors and one 1000hm resistor are required with this part.

The MAPD-009278-5T1000 is available in a SM-156 surface mount package and is designed to be utilized in both RoHS and standard reflow profiles. Parts are packaged in tape & reel.

Product Image

Ordering Information

Part Number	Package
MAPD-009278-5T1000	Tape and Reel (2000 piece Reel)

Electrical Specifications: $T_A = 25$ °C, $Z_0 = 50\Omega$

Parameter	Test Conditions	Frequency	Units	Min	Тур	Max
RF Frequency	_	5 - 1000	MHz	_	_	_
Insertion Loss	Above 3dB	5 - 1000	dB	_	_	1.4
Amplitude Imbalance	_	5 - 1000	dB	_	_	0.6
Phase Imbalance	_	5 - 1000	Degrees	_	_	4
Input Return Loss	_	5 - 1000	dB	_	19	16.0
Output Return Loss	_	5 - 1000	dB	_	25	16.0
Isolation	_	5 - 1000	dB	_	20	16.0

Pin Configuration

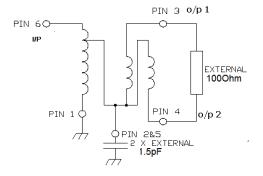
Pin No.	Function	
1	Ground	
2	External 1.5pF Cap	
3	Output Port 1	
4	Output Port 2	
5	External 1.5pF Cap	
6	Input	

Absolute Maximum Ratings

Parameter	Absolute Maximum		
RF Power	250 mW		
DC Current	240 mA ²		
Operating Temperature	-40°C to +85°C		
Storage Temperature	-55°C to +125°C		

- 1. Exceeding any one or combination of these limits may cause permanent damage to this device.
- 2. M/A-COM does not recommend sustained operation near these survivability limits.
- * Restrictions on Hazardous Substances, European Union Directive 2002/95/EC.

Schematic With Off Chip Components



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.

- North America Tel: 800.366.2266 Europe Tel: +353.21.244.6400
- 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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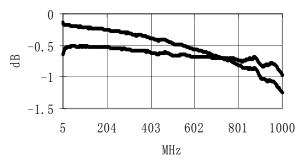


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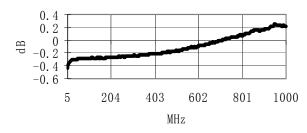
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Typical Performance Curves at +25°C

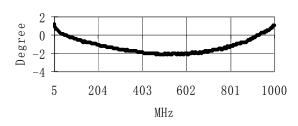
Insertion Loss



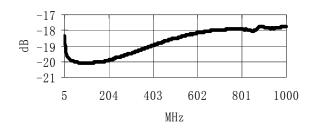
Amplitude Balance



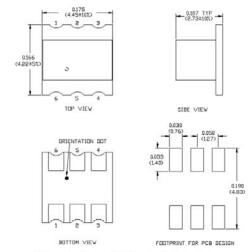
Phase Balance



Input Return Loss

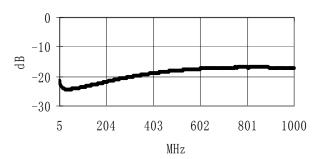


SM -156 Package

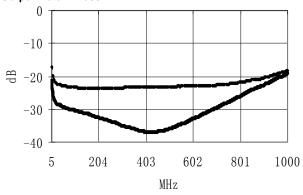


Unless otherwise specified dimensions in inches [mm] Tolerance: .xx ± .02, .xxx ± .010

Isolation



Output Return Loss



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