2 Way 0° Power Divider 5 - 1000 MHz

Features

- SMT unit
- 2 Way 0 degree
- 260°C Reflow Compatible
- RoHS Compliant and Pb free
- Available on Tape and Reel

Description

The MAPDCT0027 is 2 way 0 degree RF power divider in a low cost, surface mount package. An external 180 Ohm resistor is required between the two outputs ports. Ideally suited for high volume CATV/Broadband applications.



Functional Schematic



Ordering Information

Part Number	Package	
MAPDCT0027	900 piece reel	

Pin Configuration

Pin No.	Function		
1	Ground		
2	Not connected (ground)		
3	Output 2		
4	Output 1		
5	Not connected (ground)		
6	Input		

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

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Electrical Specifications: $T_A = 25^{\circ}C$, $Z_0 = 75 \Omega$

Parameter	Conditions	Units	Min.	Тур.	Max.
Insertion Loss	5 - 500 MHz 500 - 1000 MHz	dB	—	0.4 0.7	0.7 1.0
Amplitude Unbalance (Nominal 0 dB)	5 - 500 MHz 500 - 1000 MHz	dB	—	0.28 0.32	±0.4 ±0.6
Phase Unbalance (Nominal 180°)	5 - 1000 MHz	o	_	1.0	±3.0
Input Return Loss	5 - 700 MHz 700 - 870 MHz 870 - 1000 MHz	dB	25 22 18	33 30 26	
Output Return Loss	5 - 40 MHz 40 - 1000 MHz	dB	15 19	24 25	_
Isolation (between outputs)	5 - 500 MHz 500 - 1000 MHz	dB	20 15	27 20	_

Recommended Maximum Ratings^{1,2}

Parameter	Absolute Maximum		
Input Power	1 W		
DC Current	240 mA		
Operating Temperature	-40°C to +85°C		
Storage Temperature	-55°C to +100°C		

Exceeding any one or combination of these limits may cause permanent damage to this device.
MACOM does not recommend sustained operation near these survivability limits.

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Outline Drawing



Carrier Tape Orientation



Footprint for PCB



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