

MAPD-010201-8022CG



E-Series Surface Mount Power Divider 1-2200 MHz

Rev. V1

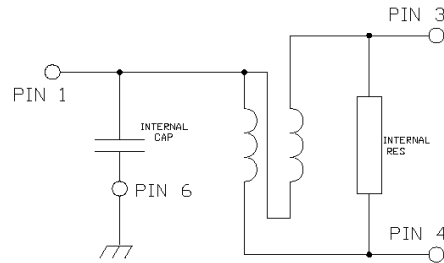
Features

- 2 Way 50Ohm
- Surface Mount
- 0 Degree
- Broad Band performance

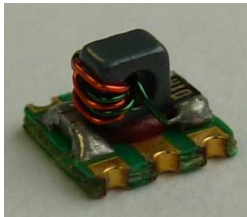
Description

MAPD-010201-8022CG is a RoHS compliant 2 Way 0° Power Divider in a low cost, surface mount package.

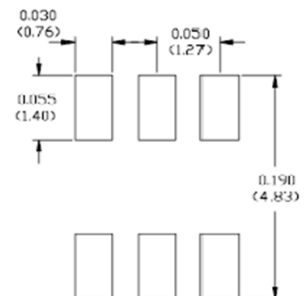
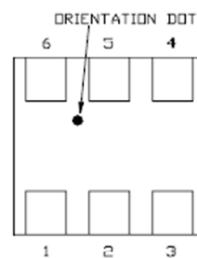
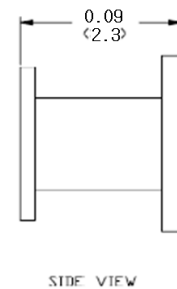
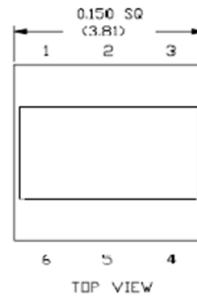
Schematic



Product Image



Component Dimensions



* Dimensions are inches (millimeters) ±0.015 (0.38) unless otherwise specified.

Pin Configuration

Pin No.	Function
1	Input
2	Not Used (GND)
3	Output Port1
4	Output Port2
5	Not Used (GND)
6	Ground

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.

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Electrical Specifications: $T_A = 25^\circ\text{C}$, $Z_0 = 50\Omega$

Parameter	Frequency (MHz)	Units	Min	Typ	Max
Insertion Loss (Above 3dB)	1 - 2200	dB	—	0.6	1.2
Isolation	1 - 800	dB	—	12	13
	800 - 1000	dB	13.5	15	17
	1000 - 1800	dB	15	17	19
	1800 - 2200	dB	17	18	—
Amplitude Balance	1 - 800	dB	—	0.2	0.5
	800 - 1000	dB	—	0.5	0.7
	1000 - 1800	dB	—	0.7	1.2
	1800 - 2200	dB	—	1.2	1.5
Phase Balance	1 - 2200	deg	—	1	3
Input Return Loss	1 - 800	dB	8	10	—
	800 - 1000	dB	10	10.6	—
	1000 - 1800	dB	—	14	—
	1800 - 2000	dB	15	16	—
Output Return Loss	1 - 800	dB	18	22	—
	800 - 1000	dB	17	20	—
	1000 - 1800	dB	12	19	—
	1800 - 2000	dB	10	12	—

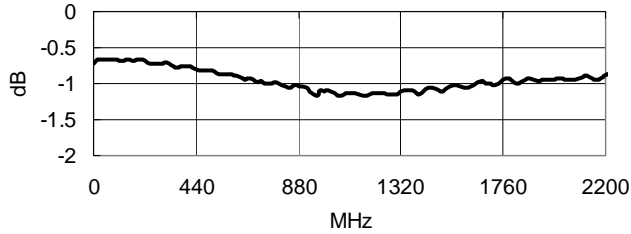
Absolute Maximum Ratings ^{1,2}

Parameter	Absolute Maximum
RF Power	250 mW
Internal Load Dissipation	50 mA
Operating Temperature	-40°C to +80°C
Storage Temperature	-55°C to +125°C

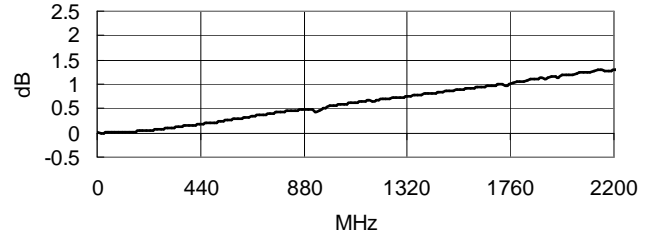
1. Exceeding any one or combination of these limits may cause permanent damage to this device.
2. M/A-COM does not recommend sustained operation near these survivability limits.

Typical Performance Curves

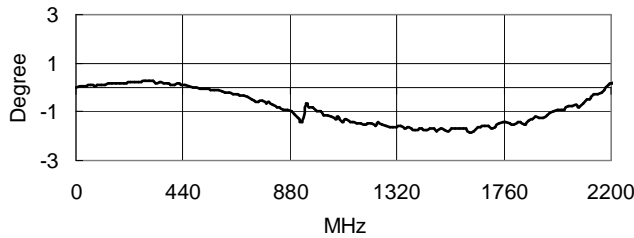
Insertion Loss



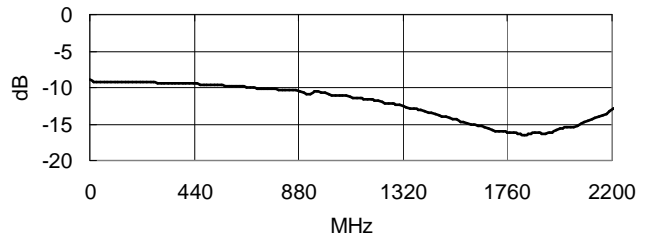
Amplitude Unbalance



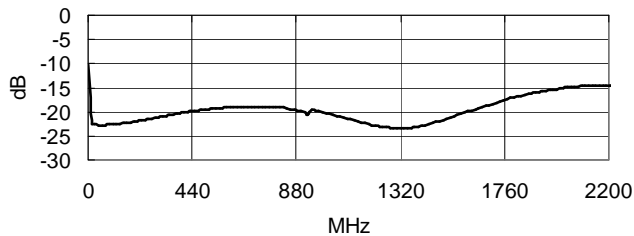
Phase Unbalance



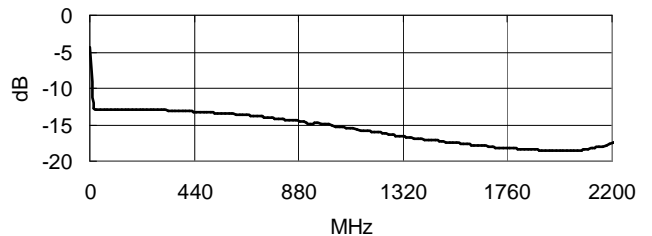
Input Return Loss



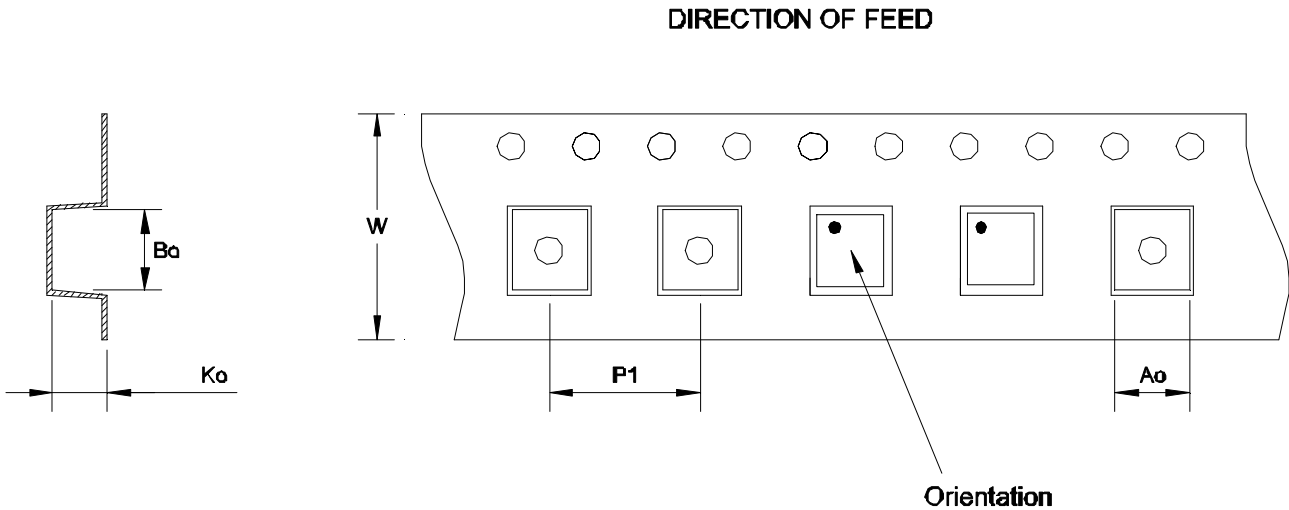
Output Return Loss



Isolation



Tape & Reel Information



Item	Dimension
Ao	4.00mm +/-0.1mm
Bo	4.00mm +/-0.1mm
Ko	2.9mm +/-0.1mm
W	12.00mm +/-0.3mm
P1	8.00mm +/-0.1mm

Ordering Information

Part Number	Package
MAPD-010201-8022CG	Tape and Reel (2000 piece Reel)