

# MAPD-010201-8022CG



## E-Series Surface Mount Power Divider 1-2200 MHz

Rev. V1

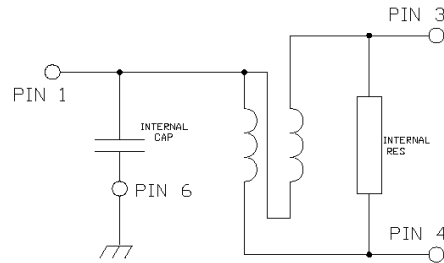
### Features

- 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.

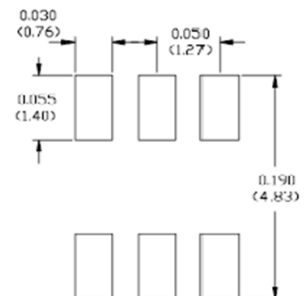
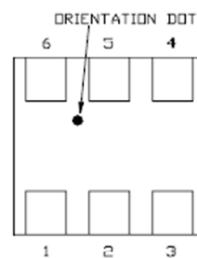
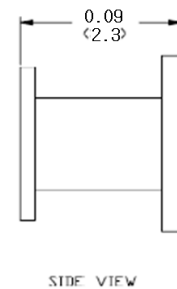
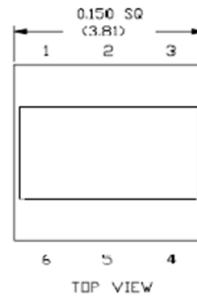
### Schematic



### Product Image



### Component Dimensions



### Pin Configuration

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

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

### 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	—

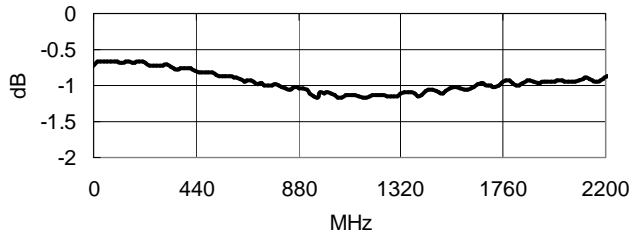
### Absolute Maximum Ratings <sup>1,2</sup>

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

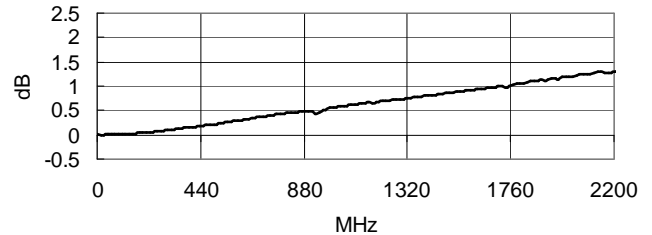
1. Exceeding any one or combination of these limits may cause permanent damage to this device.
2. M/A-COM does not recommend sustained operation near these survivability limits.

## Typical Performance Curves

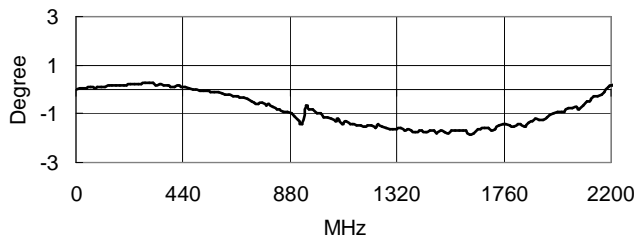
### Insertion Loss



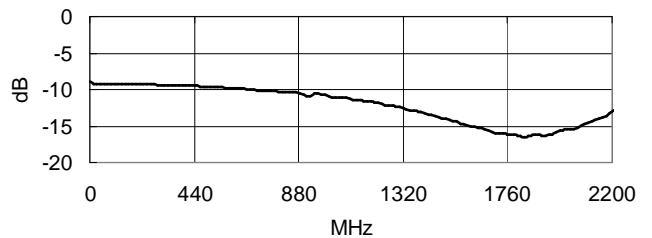
### Amplitude Unbalance



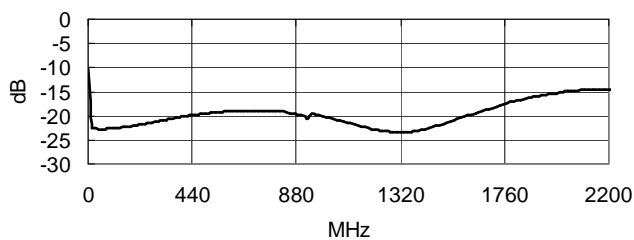
### Phase Unbalance



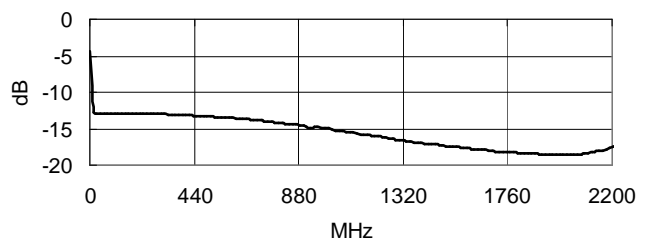
### Input Return Loss



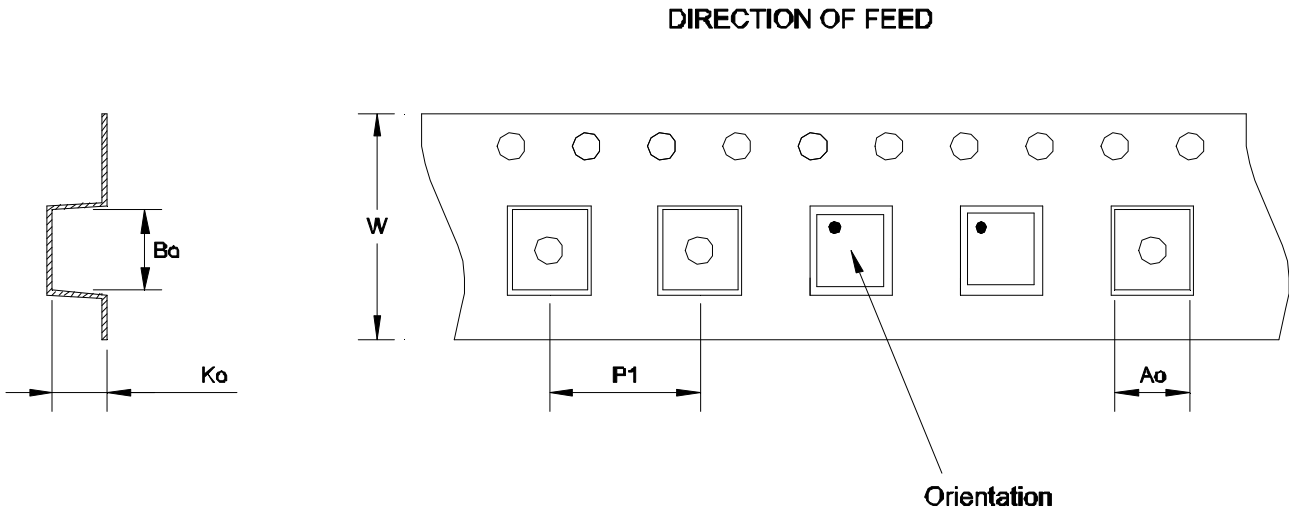
### Output Return Loss



### 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)