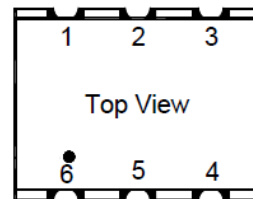


Features

- 2-way
- 90 Degree
- Surface Mount
- Tape and reel packaging available
- 260°C Reflow Compatible
- RoHS* compliant version of the MAPDES0001



Description

The MAPD-008762-ES0001 is a 2-way 90° power divider in a SM-87 surface mount package. This device is designed to be utilized in both RoHS and standard reflow profiles.

Ideally suited for high volume cellular, wireless applications.

Pin Configuration

Pin #	Function	Pin #	Function
1	Input	4	External 50 Ω
2,5	Not Connected	6	Port 2
3	Port 1		

Electrical Specifications: Freq. = 120 - 160 MHz, T_A = 25°C, Z₀ = 50 Ω

Parameter	Units	Min.	Typ.	Max.
Insertion Loss (above 3 dB)	dB	—	0.5	1.0
Isolation	dB	20	25	—
Amplitude Unbalance	dB	—	1.0	1.6
Phase Unbalance	°	—	1	3

Ordering Information

Part Number	Package
MAPD-008762-ES0001	900 piece reel

Absolute Maximum Ratings^{1,2}

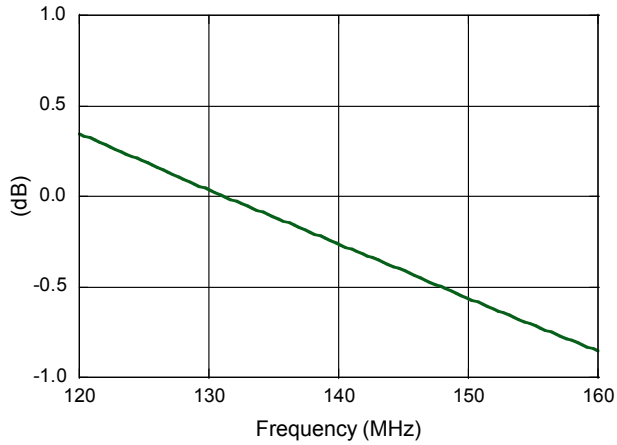
Parameter	Absolute Maximum
Impedance	50 Ω nominal
RF Power	1 W
Internal Load Dissipation	0.125 W
Operating Temperature	-40°C to +85°C
Storage Temperature	-55°C to +125°C

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

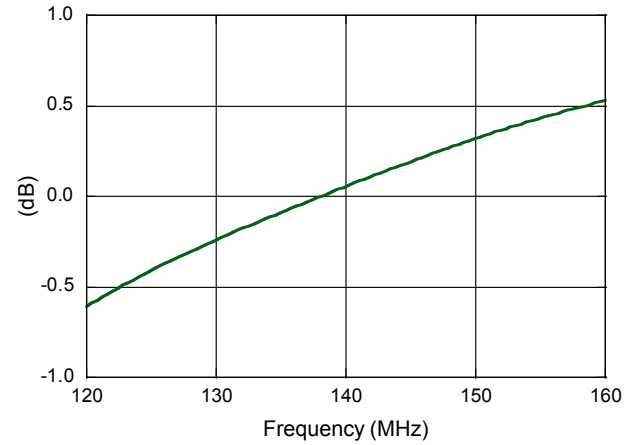
* Restrictions on Hazardous Substances, European Union Directive 2011/65/EU.

Typical Performance Curves

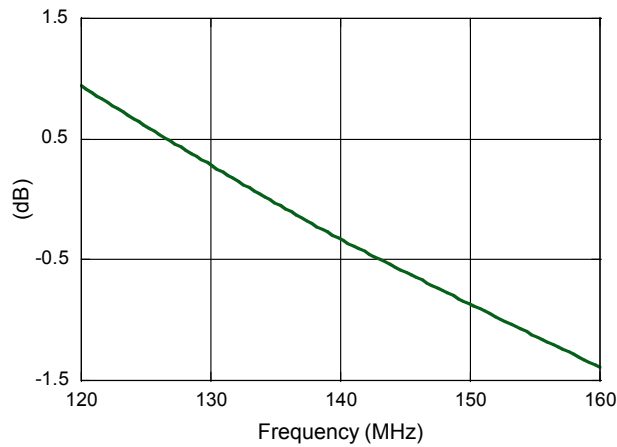
Insertion Loss Port 1



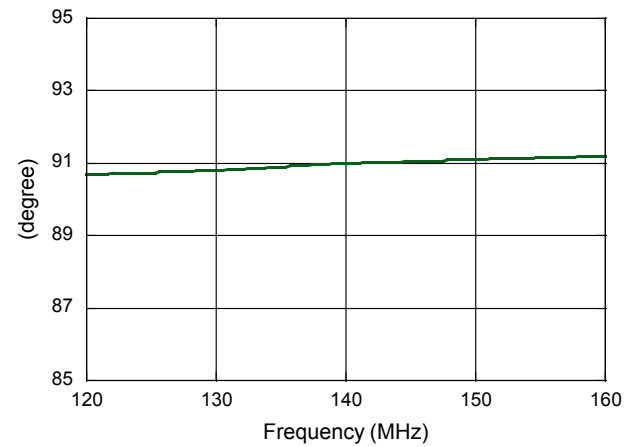
Insertion Loss Port 2



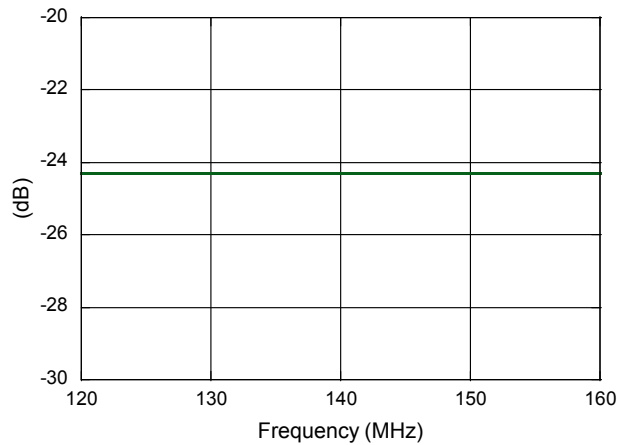
Amplitude Unbalance



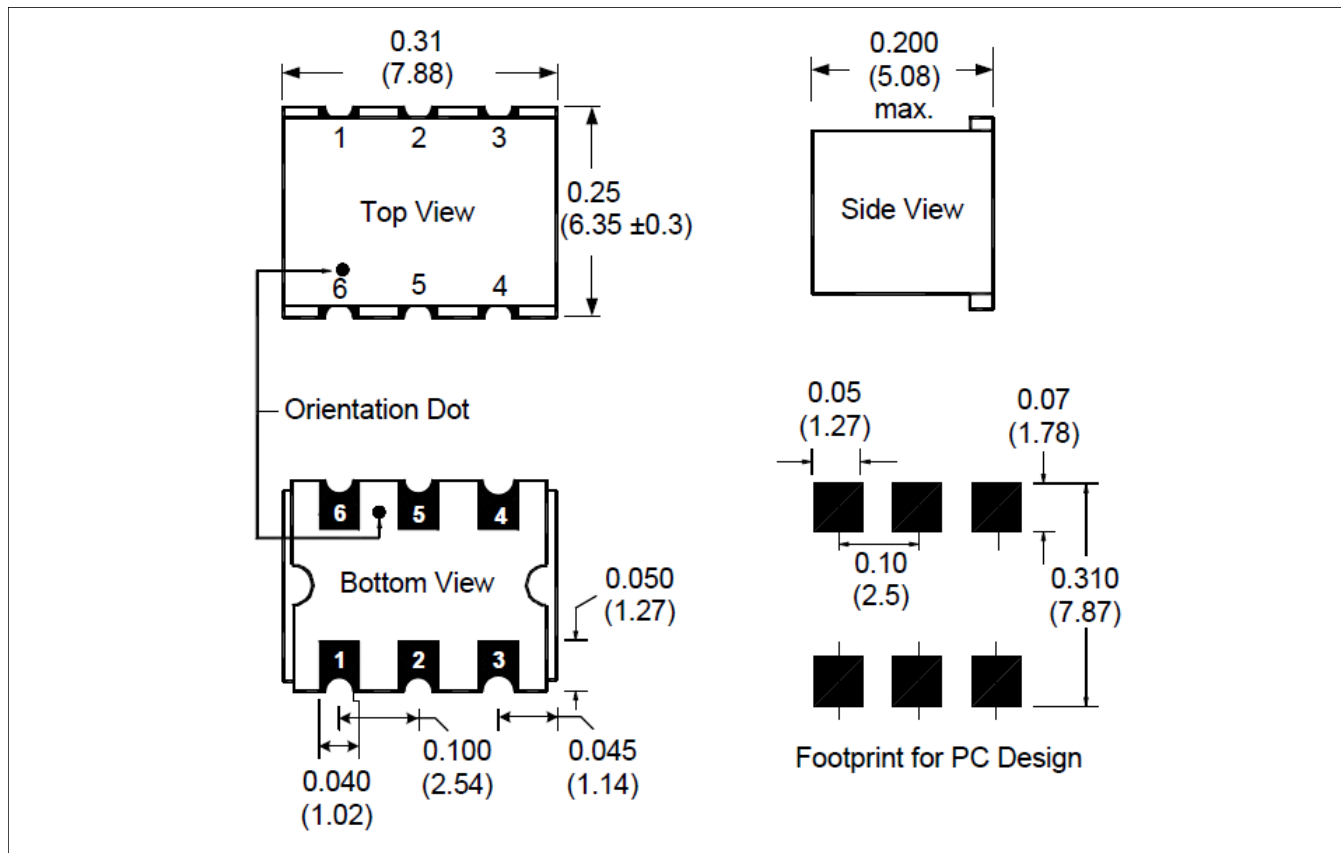
Phase Unbalance



Isolation



Outline (Non-Hermetic SM-87)



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