

**E-Series 2-Way 0° Power Divider  
5 – 500 MHz**

**MAPD-007249-ESML21  
V1P**

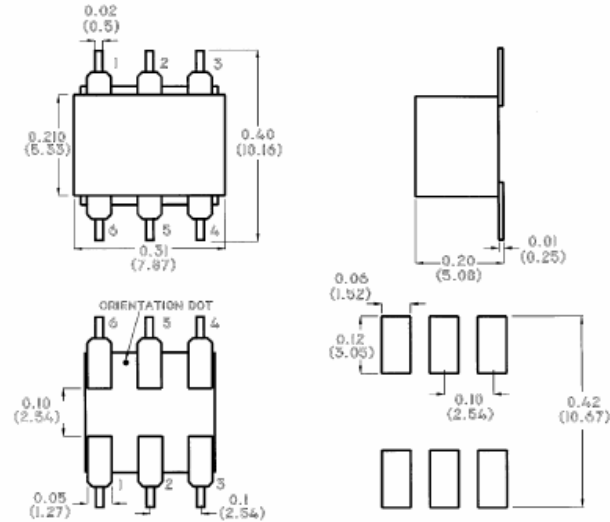
**Features**

- Surface mount
- Wide frequency range
- 2-Way—0°
- Lead Free
- RoHS\* Compliant and is 260°C reflow compatible.
- Available on Tape and Reel.

**Description**

M/A-COM's MAPD-007249-ESML21 is a RoHS compliant 2 Way 0° Power Divider in a low cost, surface mount package. Ideally suited for high volume cellular and wireless applications. Parts are packaged in tape & reel.

**SM-24 package**



**Pin Configuration**

Pin No.	Function
1	Ground
2	Not Connected
3	Port 2
4	Port 1
5	Not Connected
6	Input

**Ordering Information**

Part Number	Package
MAPD-007249-ESML21	500 piece reel

Note: Reference Application Note M513 for reel size information.

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

Parameter	Absolute Maximum
Maximum Power Rating	1 Watt
Internal Load Dissipation	0.125 Watt
Pin Temperature (10 Sec)	250°C
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.

**This PRELIMINARY Data Sheet contains information regarding a product M/A-COM has under development. Performance is based on measured results and target specifications. Commitment to produce in volume is not guaranteed.**

\* Restrictions on Hazardous Substances, European Union Directive 2002/95/EC.

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**Electrical Specifications:  $T_A = 25^\circ\text{C}$ ,  $Z_0 = 50\Omega$  <sup>1</sup>**

Parameter	Test Conditions	Frequency	Units	Min	Typ	Max
RF Frequency	—	5 - 500	MHz	—	—	—
Insertion Loss	$F_L$ — $f_U$	5 - 500	dB	—	0.25	0.5
		50 -250	dB	—	0.3	0.5
		250 - 500	dB	—	0.5	1.0
Isolation	$F_L$ — $f_U$	5 - 500	dB	25	50	—
		50 -250	dB	24	33	—
		250 - 500	dB	23	30	—
Amplitude Unbalance	$F_L$ — $f_U$	5 - 500	dB	—	—	0.15
		50 -250	dB	—	—	0.3
		250 - 500	dB	—	—	0.6
Phase Unbalance	$F_L$ — $f_U$	5 - 500	Degrees	—	—	1
		50 -250	Degrees	—	—	2
		250 - 500	Degrees	—	—	5