

**E-Series 4-Way 0° Power Divider
2 – 1000 MHz**

MAPD-007246-ES4700
V1P

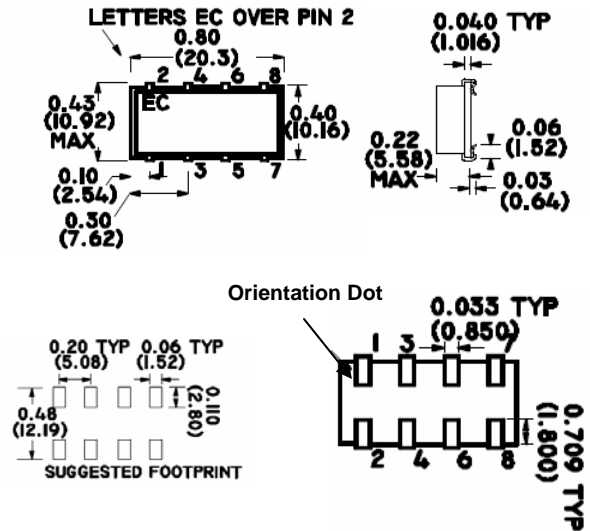
Features

- Surface mount
- Wide frequency range
- 4-Way—0°
- Lead Free
- RoHS* Compliant and is 260°C reflow compatible.
- Available on Tape and Reel, reel quantity 2000

Description

M/A-COM's MAPD-007246-ES4700 is a RoHS compliant 4 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-46 package



Pin Configuration

| Pin No. | Function |
|---------|----------|
| 1 | Ground |
| 2 | Port 1 |
| 3 | Input |
| 4 | Port 2 |
| 5 | Ground |
| 6 | Port 3 |
| 7 | Ground |
| 8 | Port 4 |

Absolute Maximum Ratings^{1,2}

| Parameter | Absolute Maximum |
|------------------------------------|------------------|
| Maximum Power Rating | 1 Watt |
| Internal Load Dissipation | 0.125 Watt |
| Pin Temperature (10 Sec) | 260°C |
| Operating Temperature | -0°C to +70°C |
| Operating Temperature ² | -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.

Ordering Information

| Part Number | Package |
|--------------------|----------------|
| MAPD-007246-ES4700 | 300 piece reel |

Note: Reference Application Note M513 for reel size information.

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.

1

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Visit www.macom.com for additional data sheets and product information.

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Electrical Specifications: $T_A = 25^\circ\text{C}$, $Z_0 = 50\Omega$ ¹

| Parameter | Test Conditions | Frequency | Units | Min | Typ | Max |
|----------------------------|-----------------|------------|---------|------|-----|-----|
| RF Frequency | — | 2 - 1000 | MHz | — | — | — |
| Insertion Loss | F_L-f_U | 2 - 20 | dB | — | 0.5 | 0.8 |
| | | 20 - 500 | dB | — | 0.7 | 1.1 |
| | | 500 - 1000 | dB | — | 0.8 | 1.5 |
| Isolation | F_L-f_U | 2 - 20 | dB | 20 | 35 | — |
| | | 20 - 500 | dB | 20 | 35 | — |
| | | 500 - 1000 | dB | 15 | 23 | — |
| Input & Output Return Loss | F_L-f_U | 2 - 1000 | dB | 15.0 | — | — |
| Amplitude Unbalance | F_L-f_U | 2 - 20 | dB | — | — | 0.1 |
| | | 20 - 500 | dB | — | — | 0.2 |
| | | 500 - 1000 | dB | — | — | 0.5 |
| Phase Unbalance | F_L-f_U | 2 - 20 | Degrees | — | — | 1° |
| | | 20 - 500 | Degrees | — | — | 5° |
| | | 500 - 1000 | Degrees | — | — | 10° |