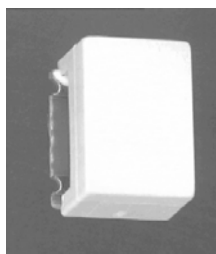




E-Series 2-Way 90° Power Divider 820 - 980 MHz

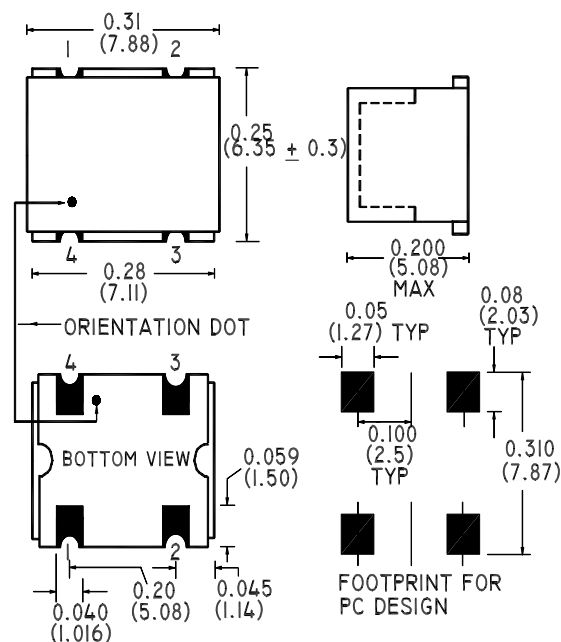
Features

- 2 Way
- 90 Degree
- Surface Mount



SM-88 Package

Note: Non Hermetic Package



Description

M/A-COM's ELPD-290 is a 2 Way 90° Power Divider in a low cost, surface mount package. Ideally suited for high volume cellular, wireless and CATV applications.

Electrical Specifications @25°C

| Parameter | Units | Typical | Minimum | Maximum |
|---------------------|---------------|---------|---------|---------|
| Frequency Range | 820 - 980 | MHz | — | — |
| Insertion Loss | 820 - 980 MHz | dB | 0.7 | 1.2 |
| Isolation | 820 - 980 MHz | dB | 20 | 18 |
| Amplitude Unbalance | 820 - 980 MHz | dB | — | 1.2 |
| Phase Unbalance | 820 - 980 MHz | ° | — | 7.0° |
| Return Loss | 820 - 980 MHz | dB | 20 | 18 |

Please Note that the photograph above indicates package shape only, unit may be wired differently.

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Absolute Maximum Ratings

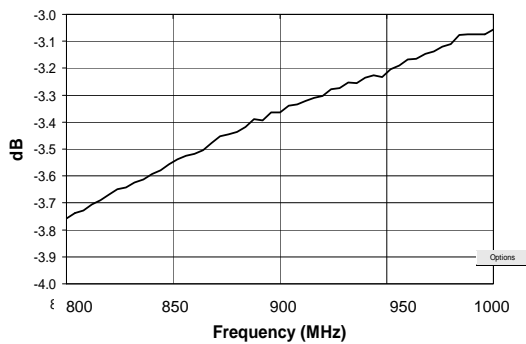
| Parameter | Absolute Maximum |
|---------------------------|------------------|
| Maximum Power Rating | 1 Watt |
| Internal Load Dissipation | 0.125 Watt |
| Pin Temp (10 Sec) | 260°C |
| Storage Temperature | -55°C to 100°C |

Functional Configuration

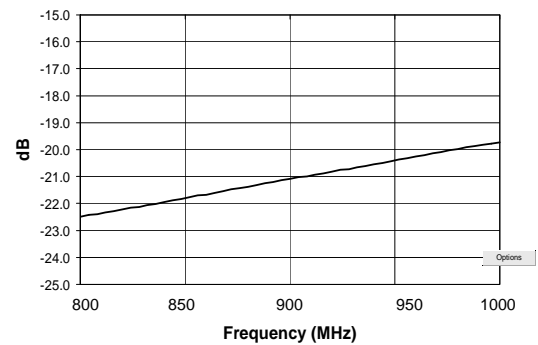
| Function | Pin No. |
|------------------|---------|
| Not Connected | — |
| External 50 Ohms | 3 |
| Ground | — |
| Case Ground | — |
| Input | 1 |
| Port 1 | 2 |
| Port 2 | 4 |

Typical Performance @ +25°C

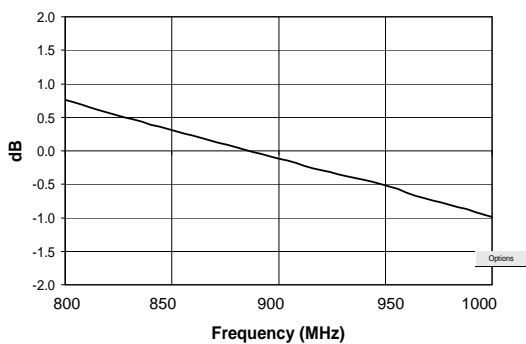
Insertion Loss



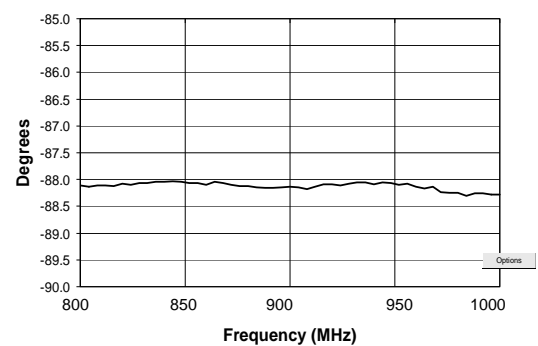
Isolation



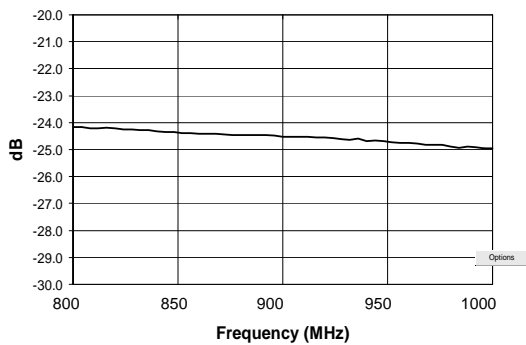
Amplitude Unbalance



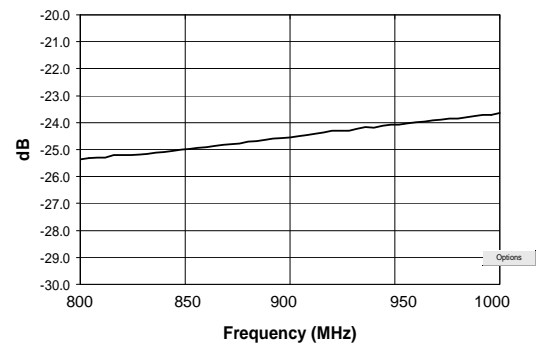
Phase Unbalance



Output Return Loss



Input Return Loss



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