

10GHz 2-way Wilkinson Power Divider

PDW06399

DESCRIPTION

DLI's 10GHz 2-way power divider / combiner offers unmatched size and performance in a surface mount configuration. This power divider utilizes DLI's low loss temperature stable materials which offer small size and minimal performance variation over temperature.

FEATURES

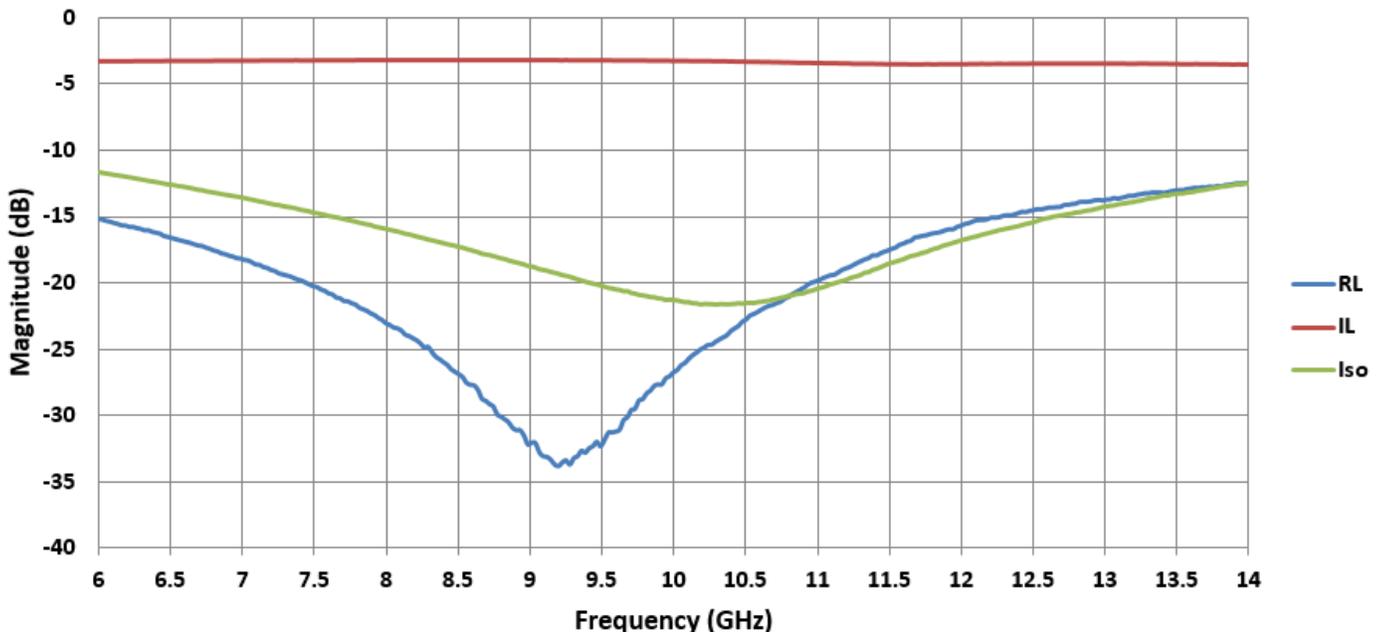
- Small Size
- Frequency Stable over Temperature
- Solder Surface Mount Package
- Excellent Repeatability
- Operating Temp: -55°C to +125°C
- Characteristic Impedance: 50Ω

SPECIFICATIONS*

| Parameter | Frequency Range (GHz) | Min | Typ. | Max | |
|------------------------------|-----------------------|-----|------|-----|-------|
| Nominal Power Splitting (dB) | 9-11 | | 3.0 | | |
| Nominal Phase Shift (Deg) | | | 0.0 | | |
| Amplitude Balance (dB) | | | | | ± .25 |
| Phase Balance (Deg) | | | | | ± 5.0 |
| Excess Insertion Loss (dB) | | | | | 0.4 |
| Return Loss (dB) | | | 14 | 20 | |
| Isolation (dB) | | | 14 | | |
| Input Power (W) | | | | | TBD |

*Electrical specifications based on typical probed performance at room temperature. Insertion loss shall vary ±0.5dB over temperature.

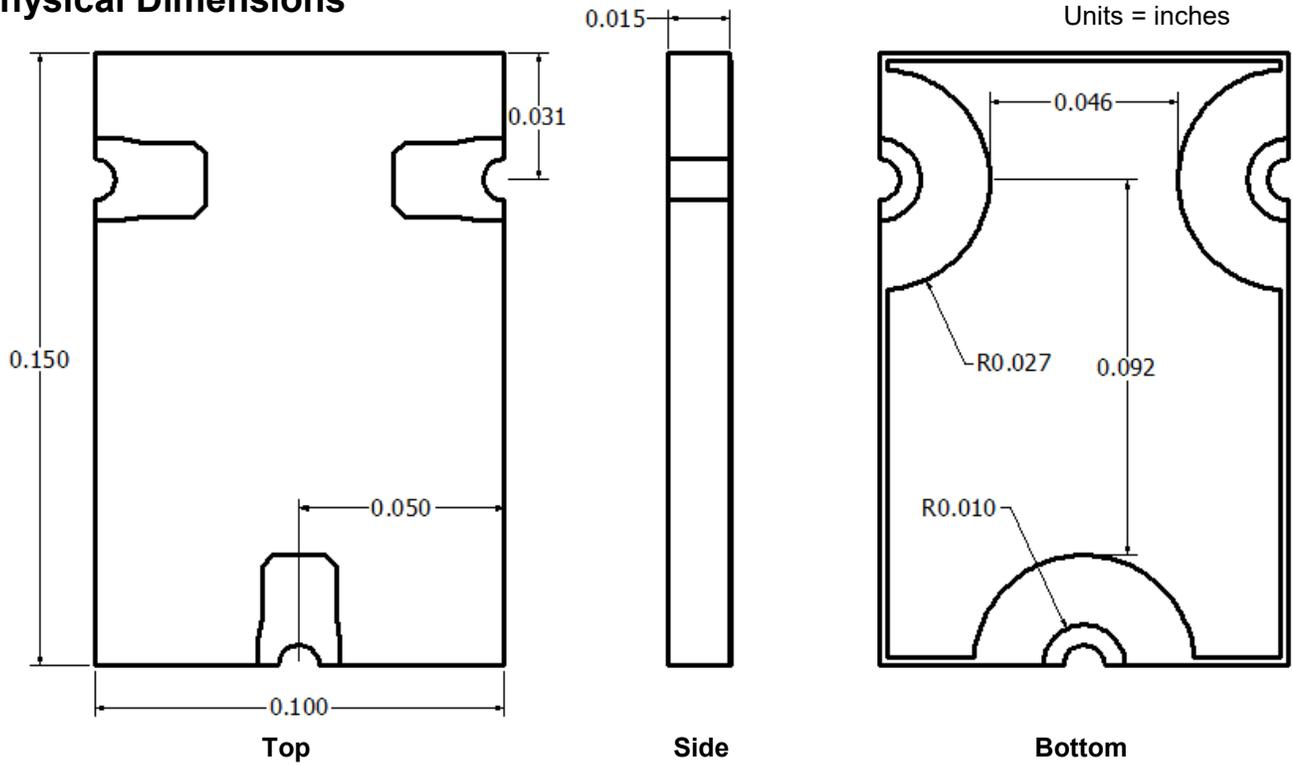
Typical Measured Performance



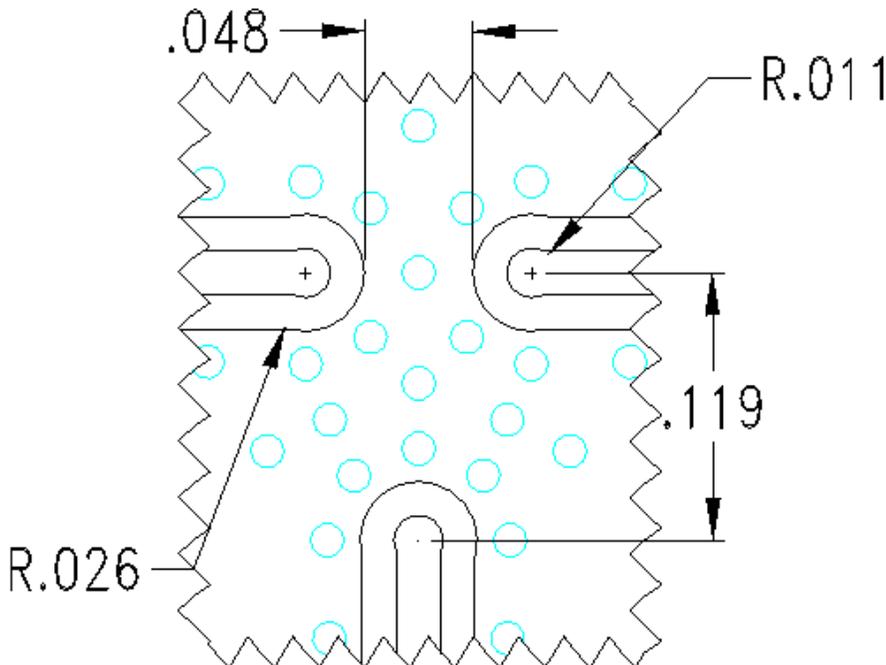
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Physical Dimensions



Recommended PCB Layout



- 50Ω trace dimensions are application specific.
- Ensure adequate grounding beneath the part.

