

## 24-32GHz 4-way Wilkinson Power Divider

**PDW07069**

COMPEX • DLI • JOHANSON MFG  
NOVACAP • SYFER • VOLTRONICS  
[www.knowlescapacitors.com](http://www.knowlescapacitors.com)

### DESCRIPTION

DLI's 24-32GHz 4-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

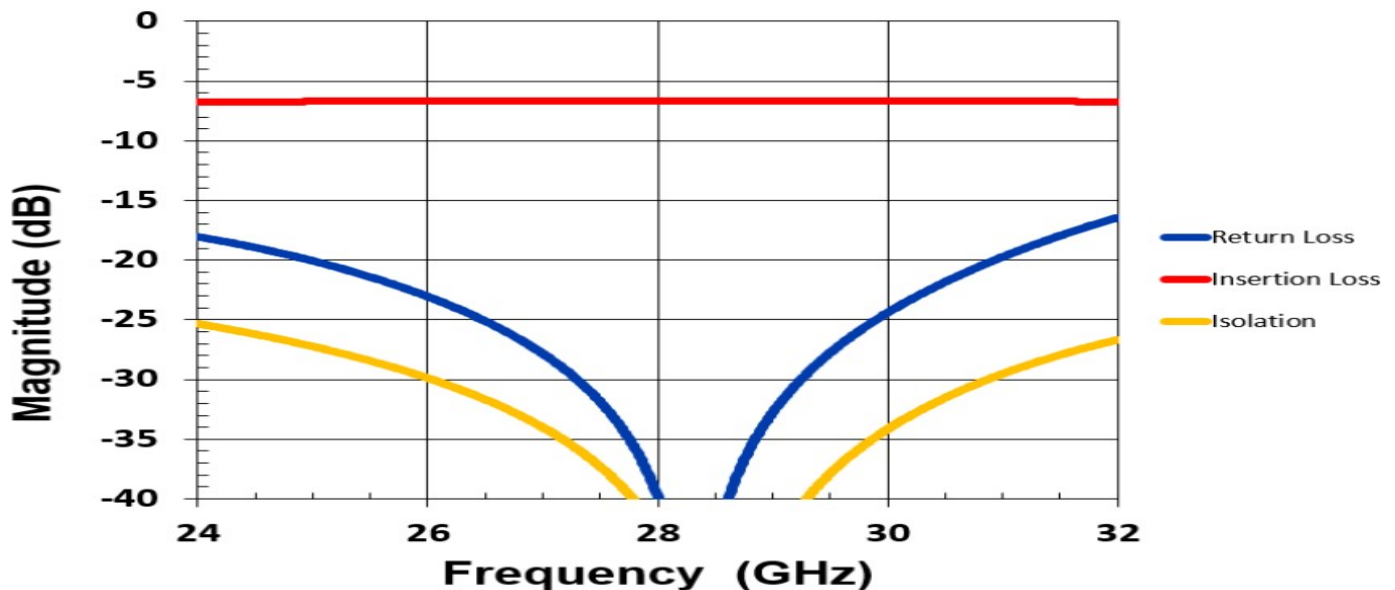
- Small Size
- Frequency Stable over Temperature
- Solder Surface Mount Package
- Excellent Repeatability
- Moisture Sensitivity Level: MSL 1
- Operating & Storage Temp: -55°C to +125°C
- Characteristic Impedance: 50Ω

### SPECIFICATIONS\*

| Parameter                    | Frequency Range (GHz) | Min | Typ. | Max   |
|------------------------------|-----------------------|-----|------|-------|
| Nominal Power Splitting (dB) | 24-32                 |     | 6.0  |       |
| Nominal Phase Shift (Deg)    |                       |     | 0.0  |       |
| Amplitude Balance (dB)       |                       |     |      | ± .5  |
| Phase Balance (Deg)          |                       |     |      | ± 6.0 |
| Excess Insertion Loss (dB)   |                       |     |      | 1     |
| Return Loss (dB)             |                       | 10  | 14   |       |
| Isolation (dB)               |                       | 10  | 14   |       |
| Input Power (W) <sup>1</sup> |                       |     |      | 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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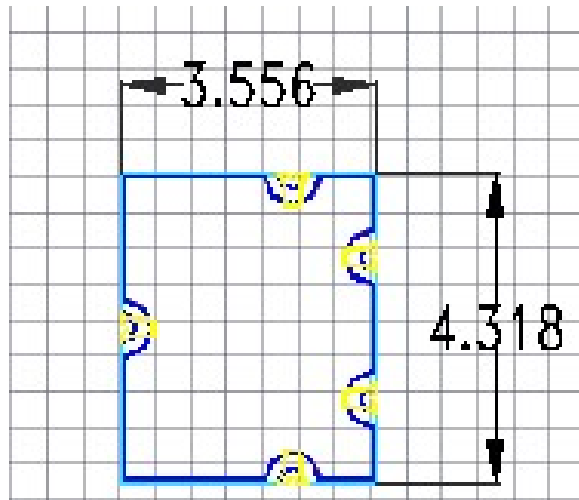
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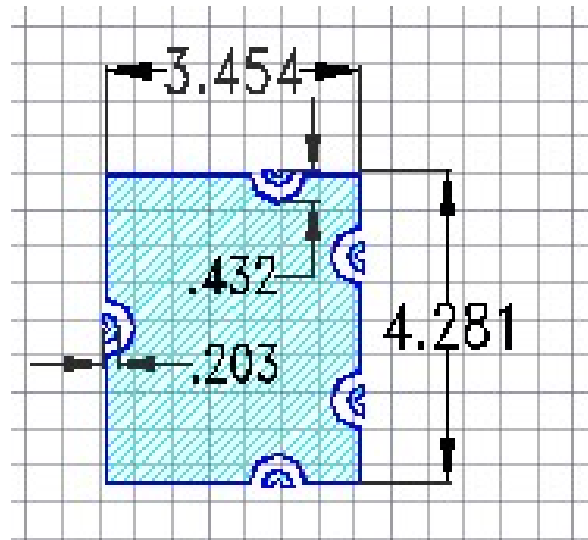
### Physical Dimensions

Units = mm

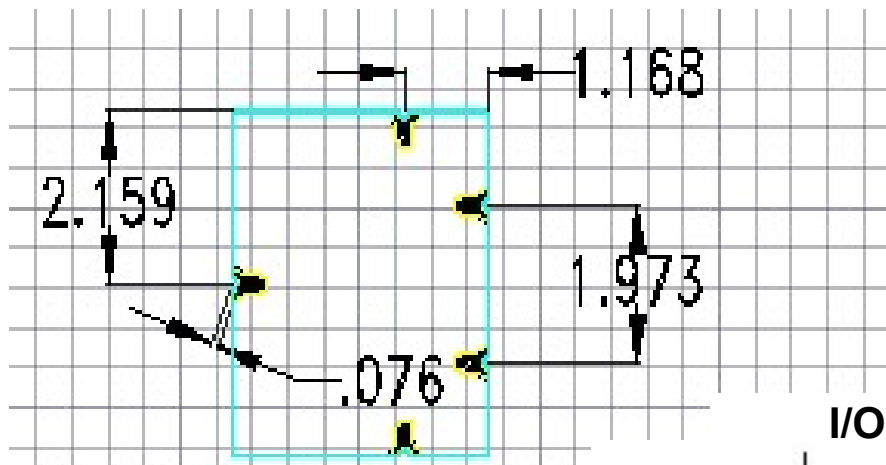
**Top View**



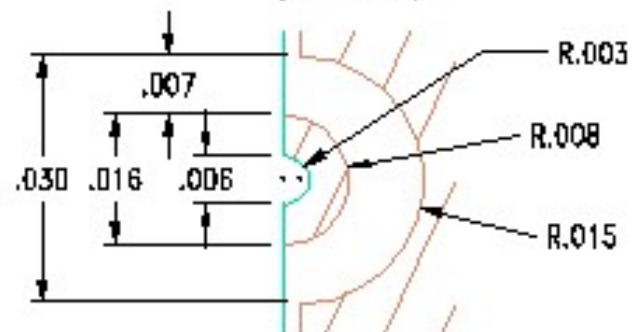
**Bottom View**



**Top View Details**



**I/O Detail (inches)**

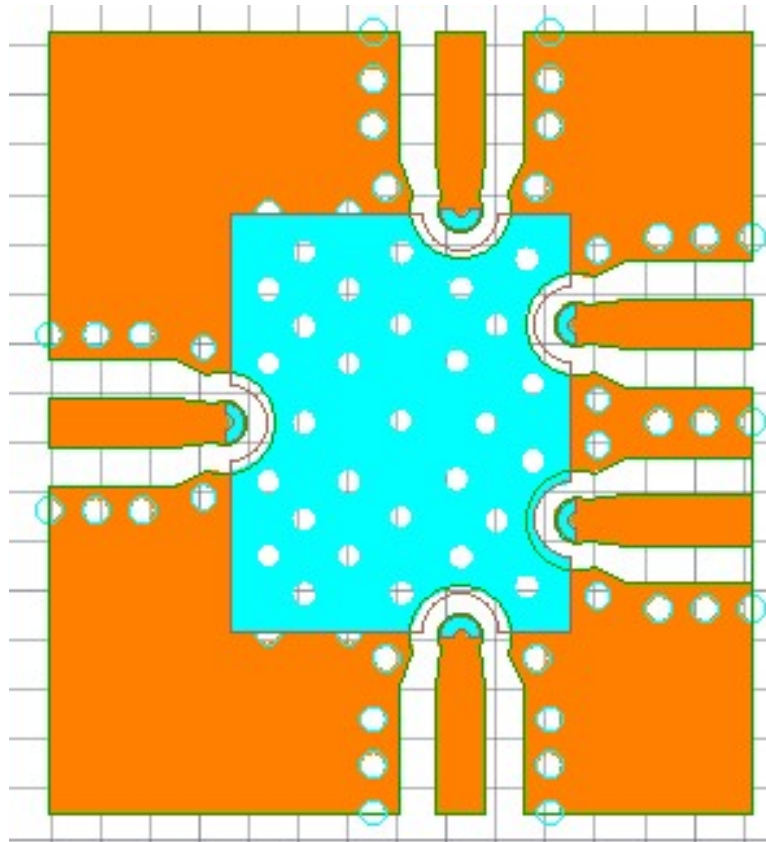


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### Recommended PCB Layout



#### Recommended PCB board :

10.0 mil Roger Board RO4350B

50Ω GCPW traces are used to carry RF signals into the port

Ensure adequate grounding beneath the part.



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