24-32GHz 4-way Wilkinson Power Divider

PDW07069

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

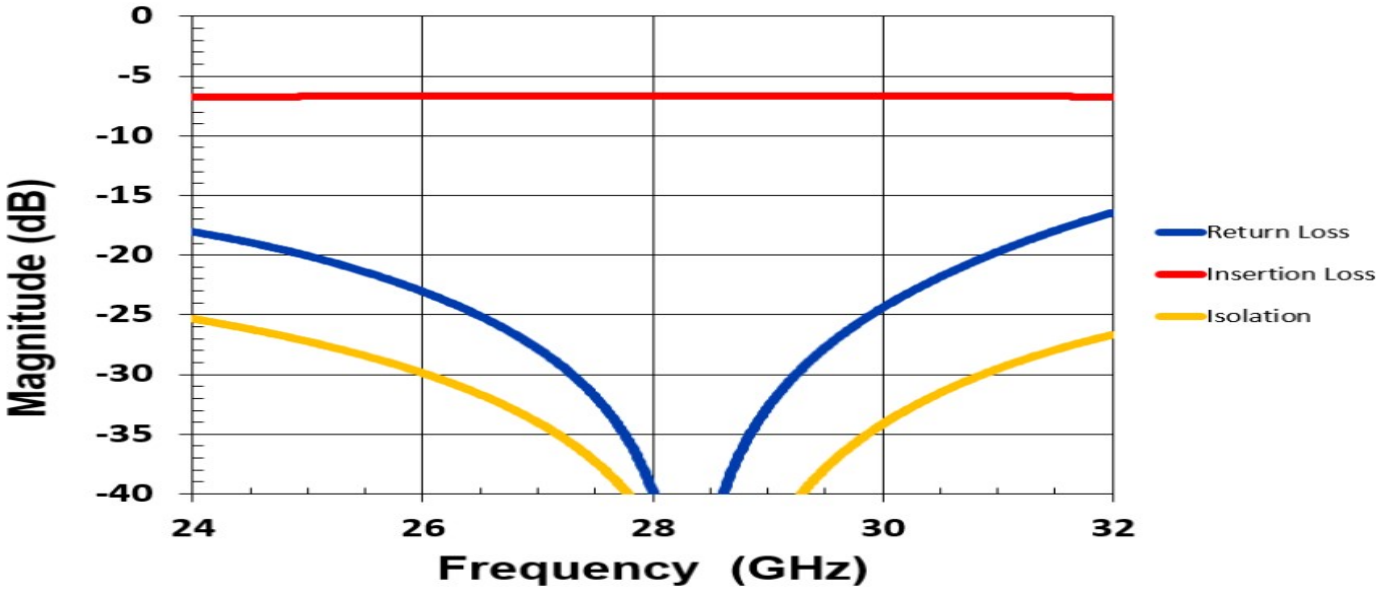
- Small Size
- Frequency Stable over Temperature
- Solder Surface Mount Package
- Excellent Repeatability
- Moisture Sensitivity Level: MSL1
- Operating & Storage Temp: -55˚C to +125˚C
- Characteristic Impedance: 50Ω

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)[1]				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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DIELECTRIC LABORATORIES
a Knowles Precision Devices brand

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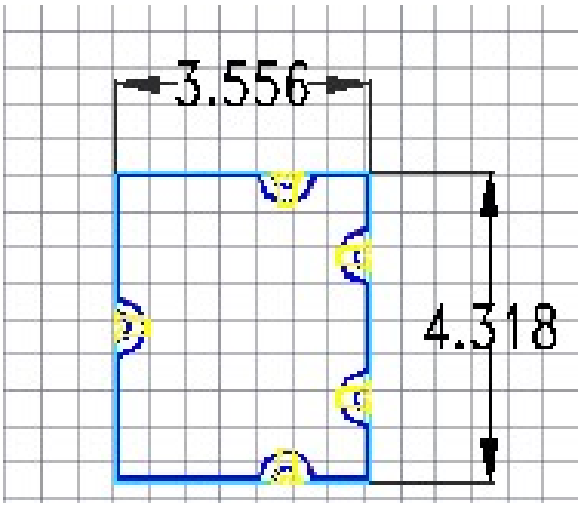
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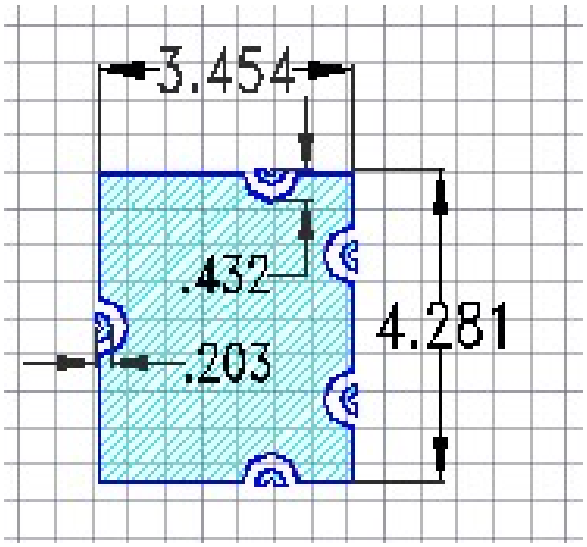
Physical Dimensions

Units = mm

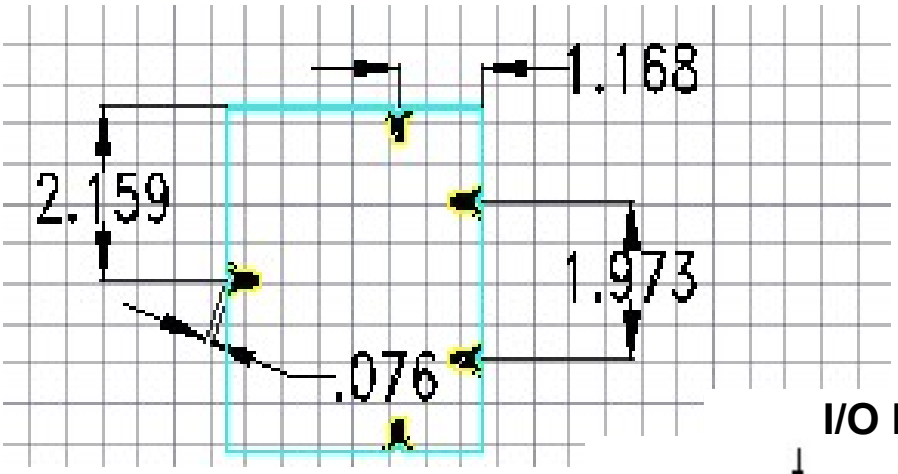
Top View



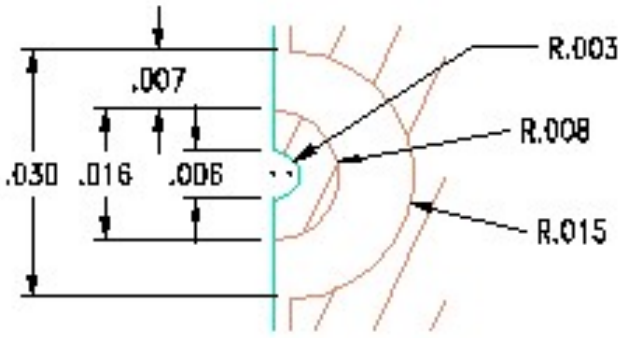
Bottom View



Top View Details



I/O Detail (inches)

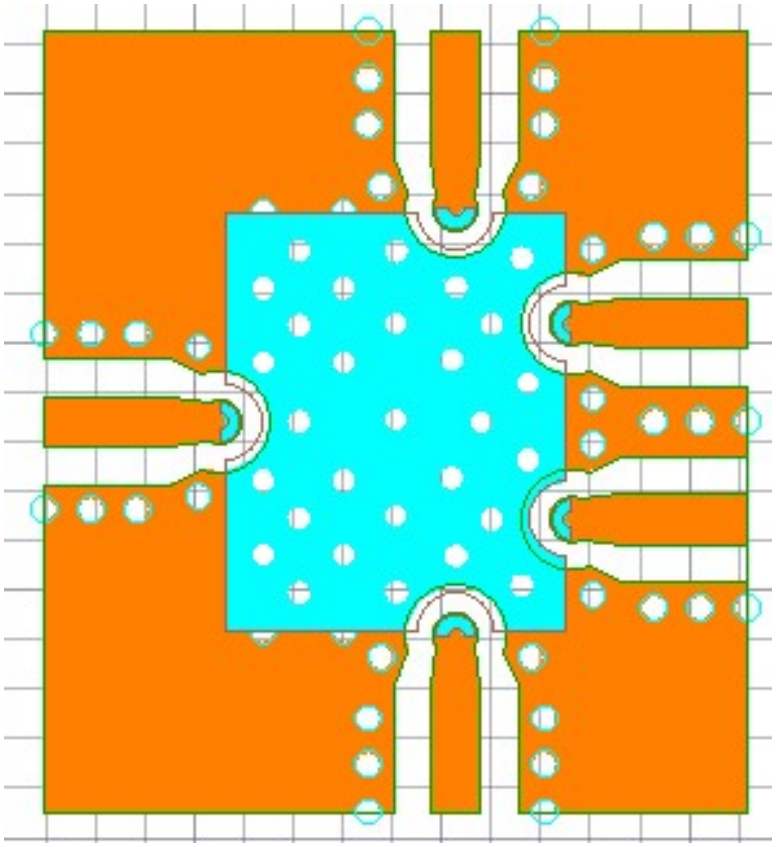


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Recommended PCB Layout



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.