6-18GHz 4-way Wilkinson Power Divider

PDW06089

www.dilabs.com

DLI • Novacap • Syfer • Voltronics

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DESCRIPTION

DLI's 6-18GHz 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

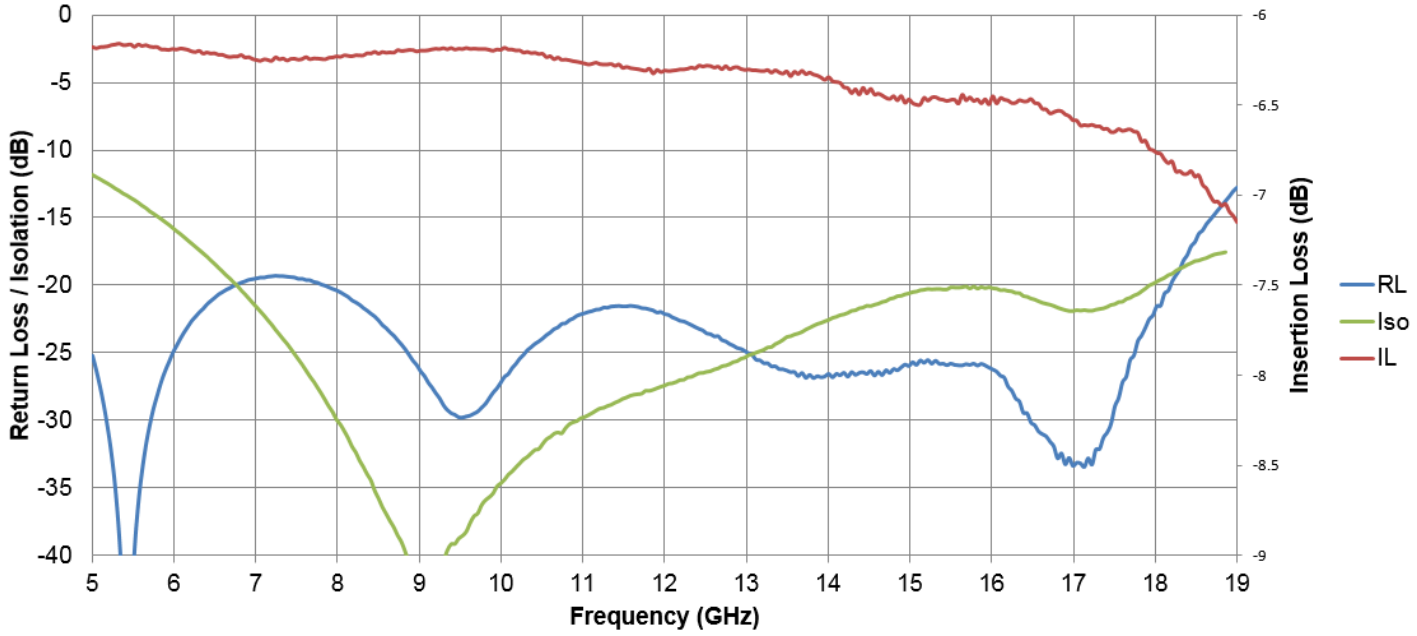
- Small Size
- Broadband 6 to 18GHz Performance
- Frequency Stable over Temperature
- Solder Surface Mount Package
- Excellent Repeatability
- Operating Temp: -55˚C to +125˚C
- Characteristic Impedance: 50Ω

SPECIFICATIONS*

Parameter	Frequency Range (GHz)	Min	Typ.	Max
Nominal Power Splitting (dB)	6-18		6.0	
Nominal Phase Shift (Deg)			0.0	
Amplitude Balance (dB)				± .5
Phase Balance (Deg)				± 3.0
Excess Insertion Loss (dB)				1
Return Loss (dB)		14		
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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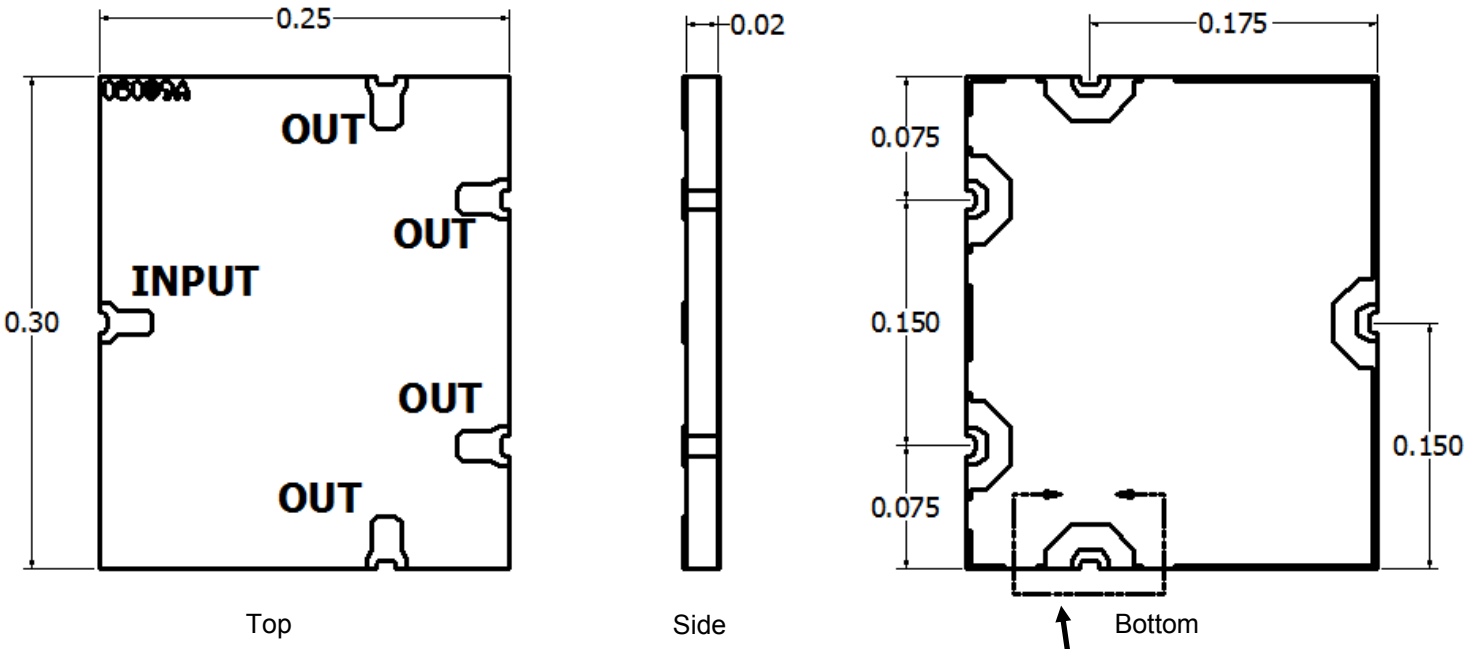
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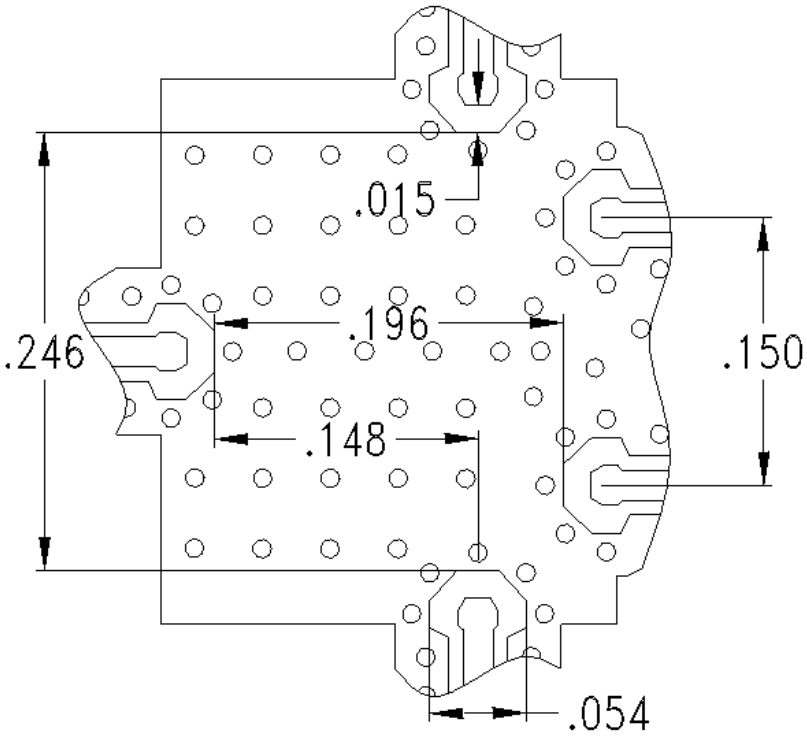
Physical Dimensions

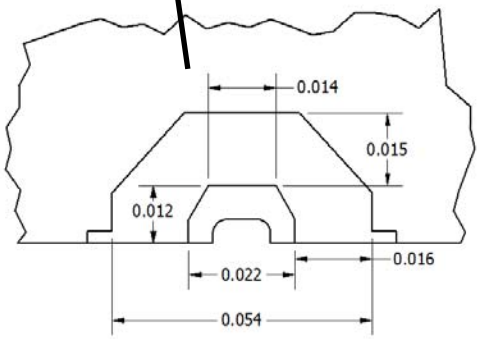
Units = inches



Top Side Bottom

Recommended PCB Layout





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

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