



# 6-18GHz 4-way Wilkinson Power Divider

**PDW06089**



DLI • Novacap • Syfer • Voltronics

www.dilabs.com

www.knowlesc capacitors.com

## 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

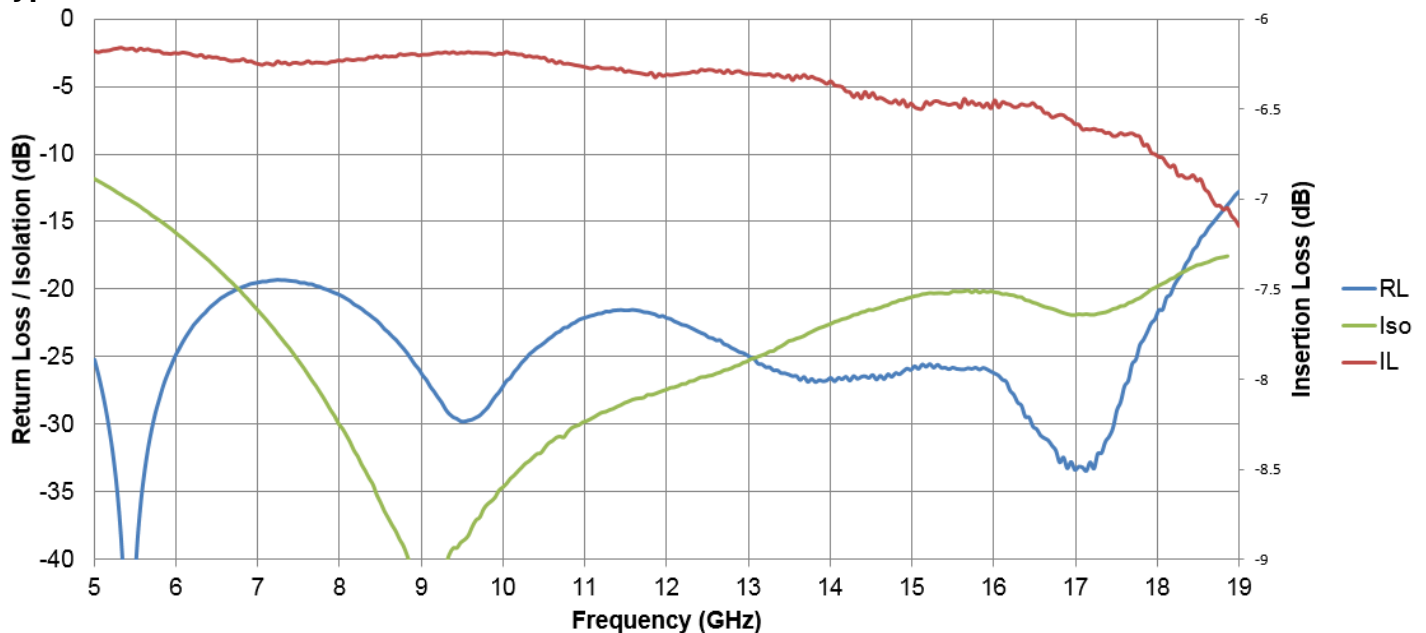
- Small Size
- Broadband 6 to 18GHz Performance
- Frequency Stable over Temperature
- Solder Surface Mount Package
- Excellent Repeatability
- Operating Temp: -55°C to +125°C
- Characteristic Impedance: 50Ω

## 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



2777 Route 20 East, Cazenovia, NY 13035 | Ph.: (315)655-8710 | KCCSales@knowles.com



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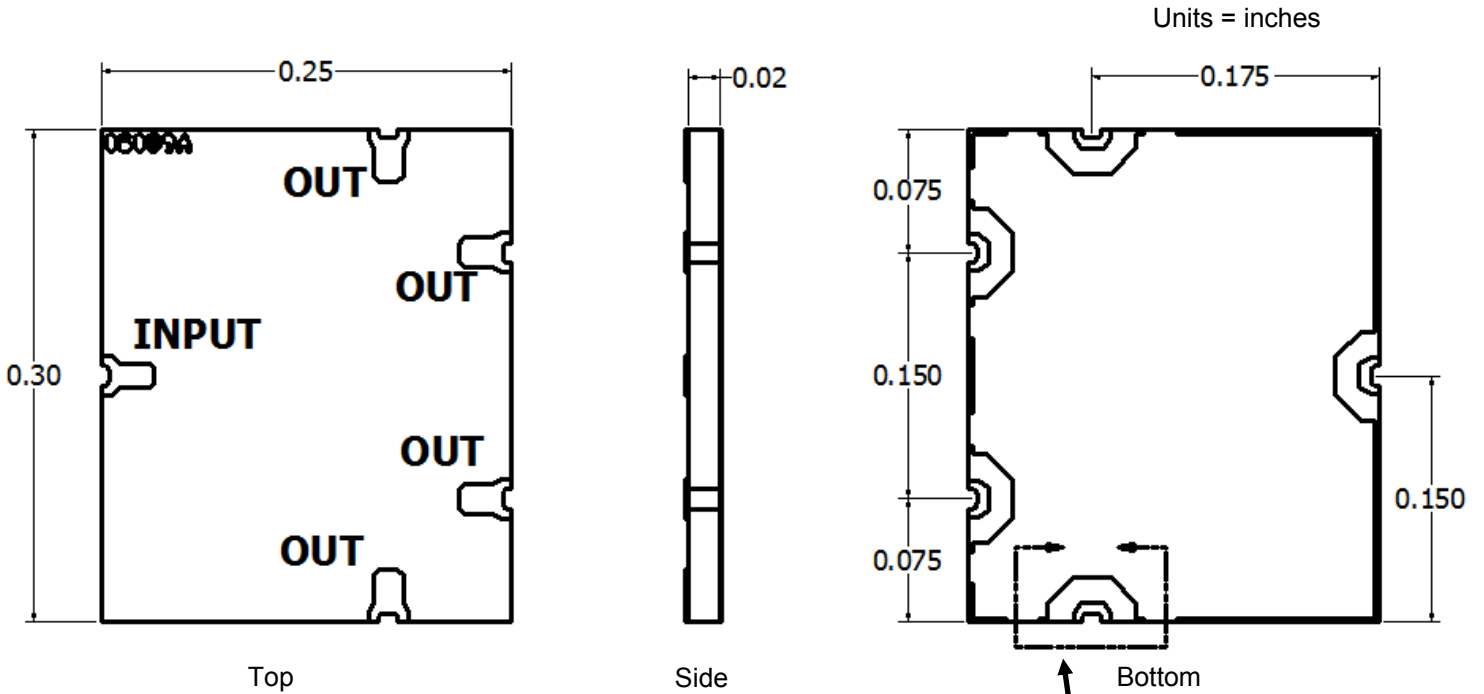


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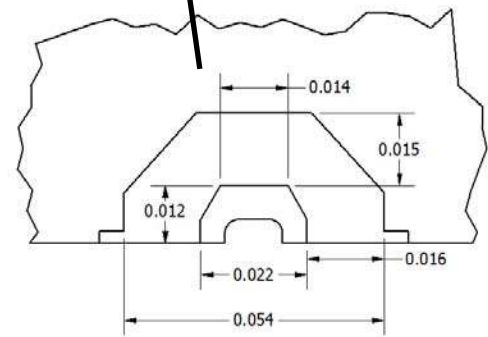
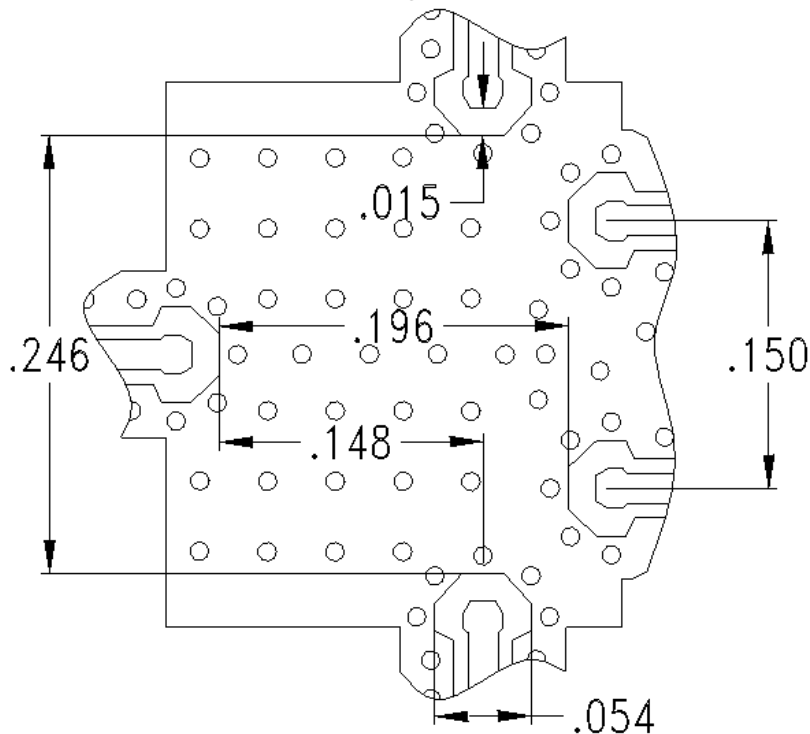
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## Physical Dimensions



## Recommended PCB Layout



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

