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With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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# 8 to 12GHz 25dB Directional Coupler

FPC06077



DLI • Novacap • Syfer • Voltronics

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## DESCRIPTION

DLI introduces its new high frequency surface mountable catalog direction couplers. These couplers incorporate DLI's high dielectric ceramic materials which provide small size and minimal performance variation over temperature. The components are well matched for monitoring incident and reflected power.

## FEATURES

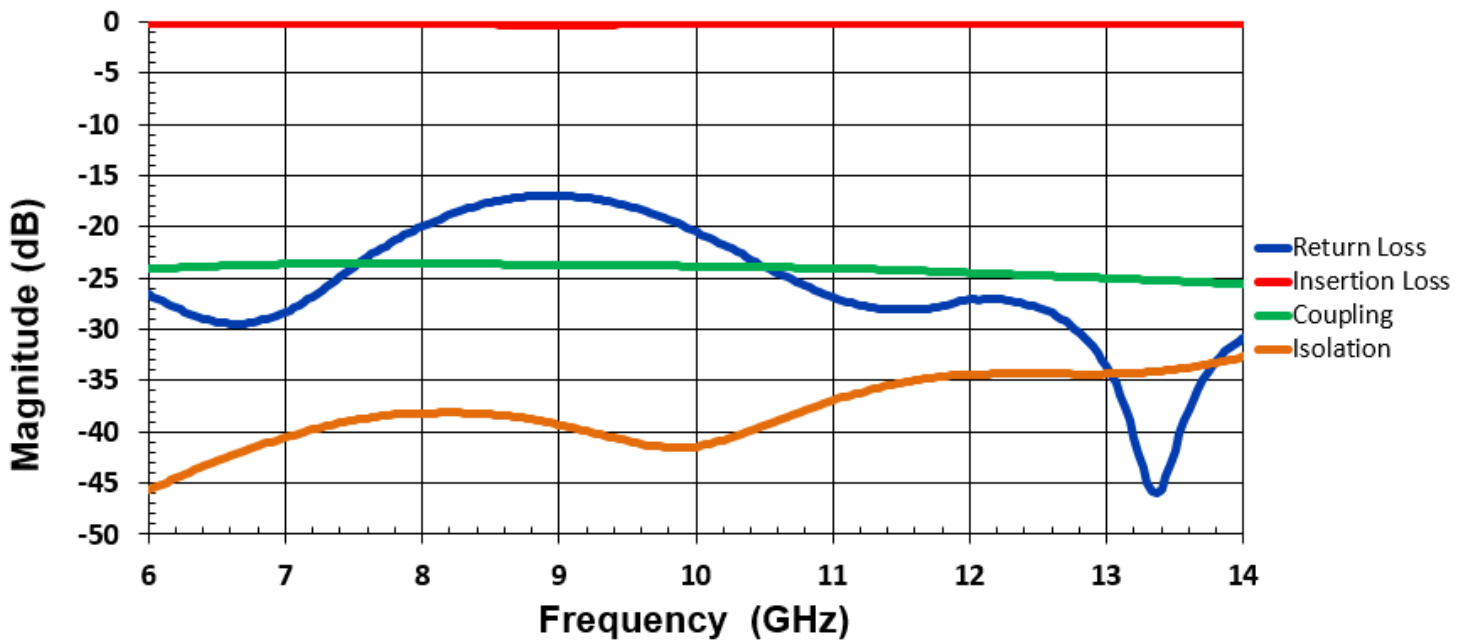
- Small Size
- Frequency Stable over Temperature
- Solder Surface Mountable
- Excellent Repeatability
- Operating Temp: -55°C to +125°C
- Characteristic Impedance: 50Ω

## SPECIFICATIONS\*

Parameter	Frequency (GHz)	Min	Max
Passband Insertion Loss* (dB)	8 - 12		0.3
Min Passband Return Loss (dB)		15	
Coupling (dB)		23	25
Directivity (dB)		10	
Size (LxWxH)	0.120 x .080 x .015 in 3.048 x 2.032 x .381mm		

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

## Typical Measured Performance



\*Typical measured performance mounted on RO4350B test board at 25°C.



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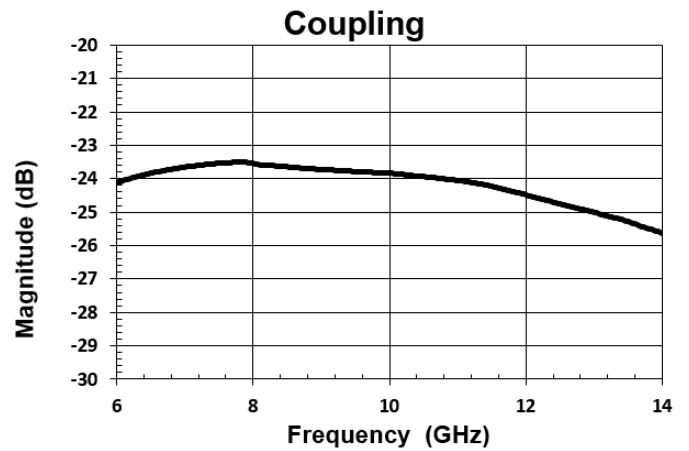
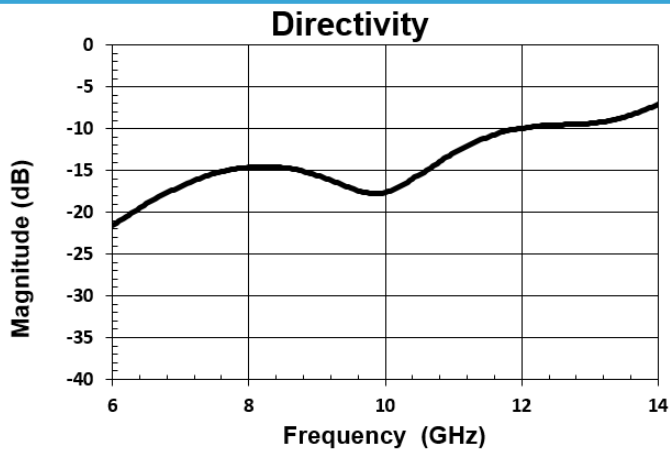
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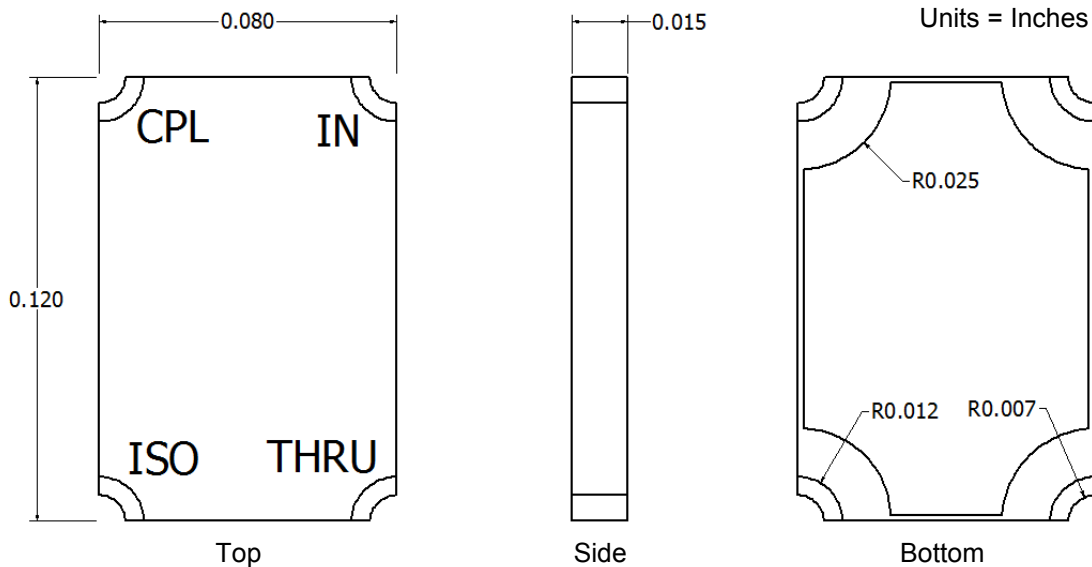
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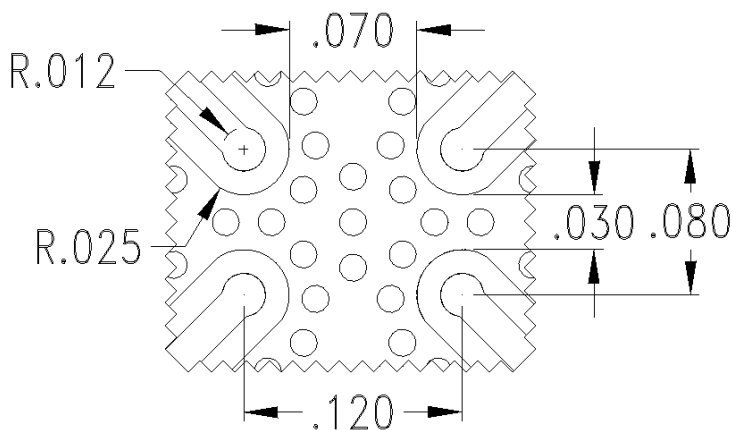
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## Physical Dimensions



## Recommended PCB Layout



- 50Ω trace dimensions are application specific.
- Ensure adequate grounding beneath the part.
- Trace feed locations can be horizontal, vertical, or angled.



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