

2 to 18GHz 10dB Directional Coupler

FPC09291

DESCRIPTION

DLI introduces a wide band wire bondable (WB) catalog directional coupler(WB of surface mount version FPC07234). This coupler incorporates DLI's high dielectric ceramic materials which provide small size and minimal performance variation over temperature.

FEATURES

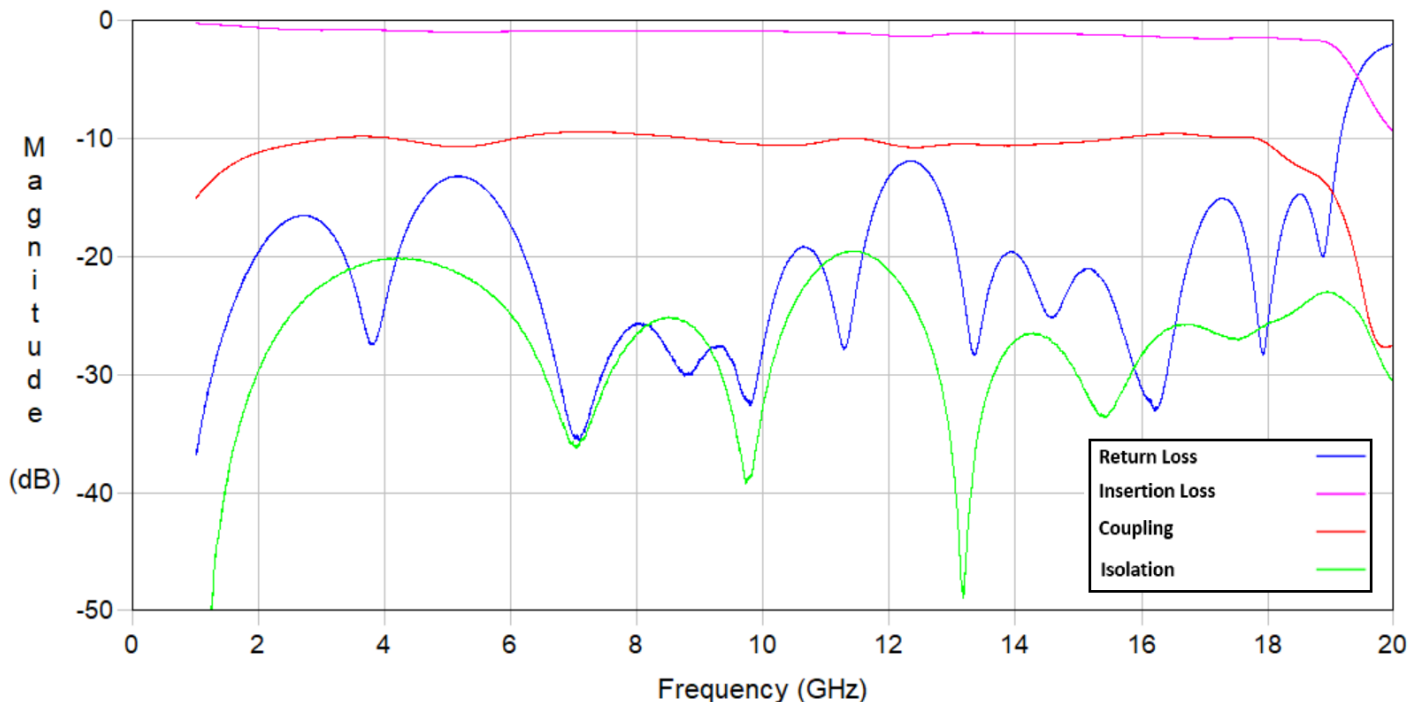
- Small Size
- Solder Surface Mount Package
- Moisture Sensitivity Level: MSL1
- Frequency Stable over Temperature
- Operating & Storage Temp: -55°C to +125°C
- Characteristic Impedance: 50Ω

SPECIFICATIONS*

Parameter	Frequency (GHz)	Min	Max
Passband	2-18		1.2
Excess Insertion Loss* (dB)			
Passband Return Loss (dB)		10	
Coupling (dB)		10	± 1.5
Directivity (dB)		10	
Input Power (W)			TBD
Size (LxWxH)	0.500 x 0.150 x .030 in 12.7 x 3.81 x 0.76 mm		

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

Typical Measured Performance

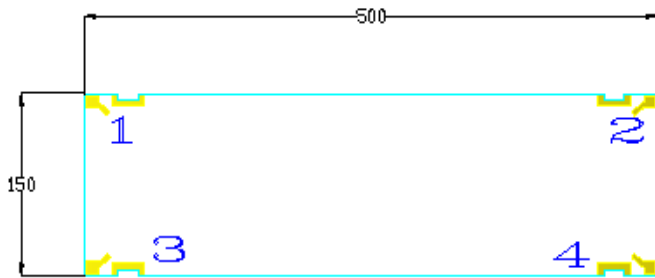


*Typical measured performance mounted on RO4350B test board at 25°C.

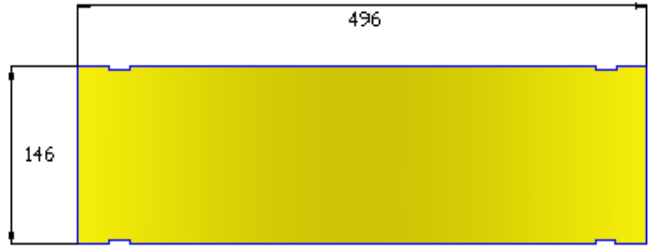
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Physical Dimensions = mils

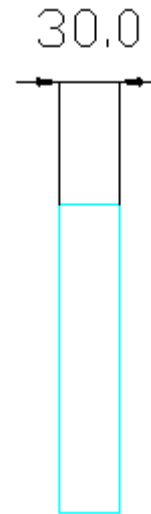


Top

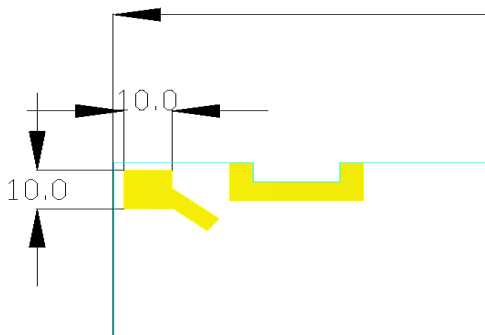


Bottom

FPC09291 Coupler Port Configuration				
	Port 1	Port 2	Port 3	Port 4
Configuration_1	Input	Output	Coupled	Isolated
Configuration_2	Output	Input	Isolated	Coupled
Configuration_3	Coupled	Isolated	Input	Output
Configuration_4	Isolated	Coupled	Output	Input



Side



4 X I/O's

