

## 2 to 18GHz 20dB Directional Coupler

**FPC07237**

### DESCRIPTION

DLI introduces its new and broadband high frequency wire bondable (WB) catalog directional coupler (WB of a surface mount version FPC07180). This coupler incorporate DLI's high dielectric ceramic material which provide small size and minimal performance variation over temperature. They are available in symmetrical.

### FEATURES

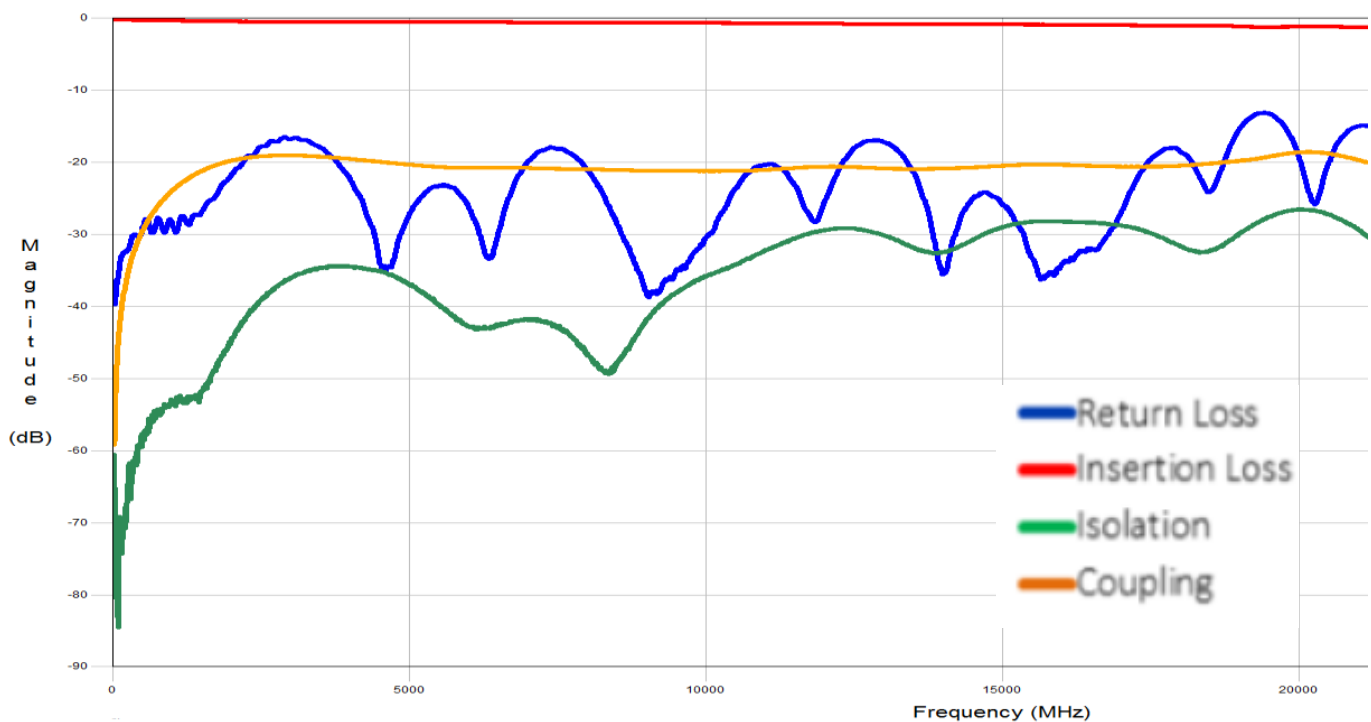
- Small Size
- Moisture Sensitivity Level: MSL1
- Frequency Stable over Temperature
- Operating & Storage Temp: -55°C to +125°C
- Characteristic Impedance: 50Ω

### SPECIFICATIONS\*

Parameter	Frequency (GHz)	Min	Max
Passband Insertion Loss* (dB)	2-18		0.8
Passband Return Loss (dB)		15	
Coupling (dB)		20	+/-1.5
Directivity (dB)		10	
Input Power (W)			TBD
Size (LxWxH)	0.500 x 0.150 x .015 in 12.7 x 3.81 x 0.381 mm		

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

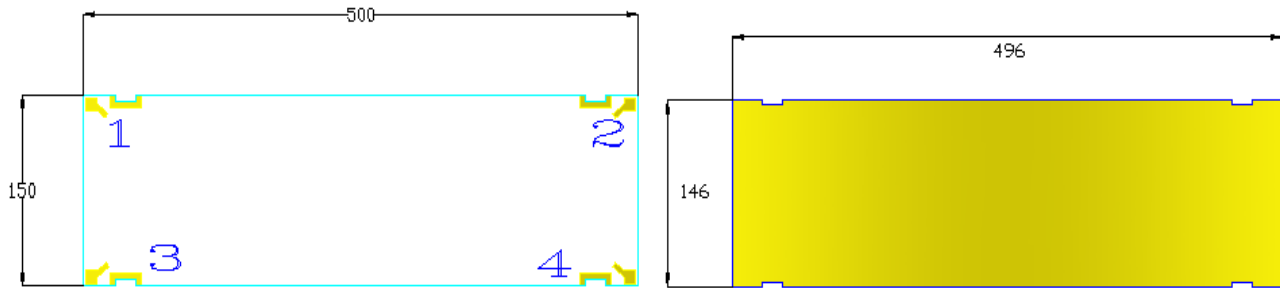
### Typical Measured Performance



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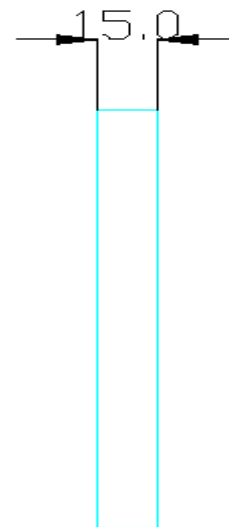
**Physical Dimensions Unit = mils**



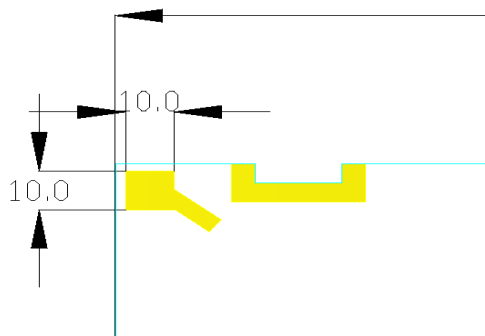
**Top**

**Bottom**

FPC07237 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**

