DIELECTRIC LABORATORIES
a Knowles Precision Devices brand

4 to 8GHz 20dB Directional Coupler

FPC06152

PRECISION DEVICES knowles
COMPEX • DLI • JOHANSON MFG
NOVACAP • SYFER • VOLTRONICS
www.knowlescapacitors.com

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

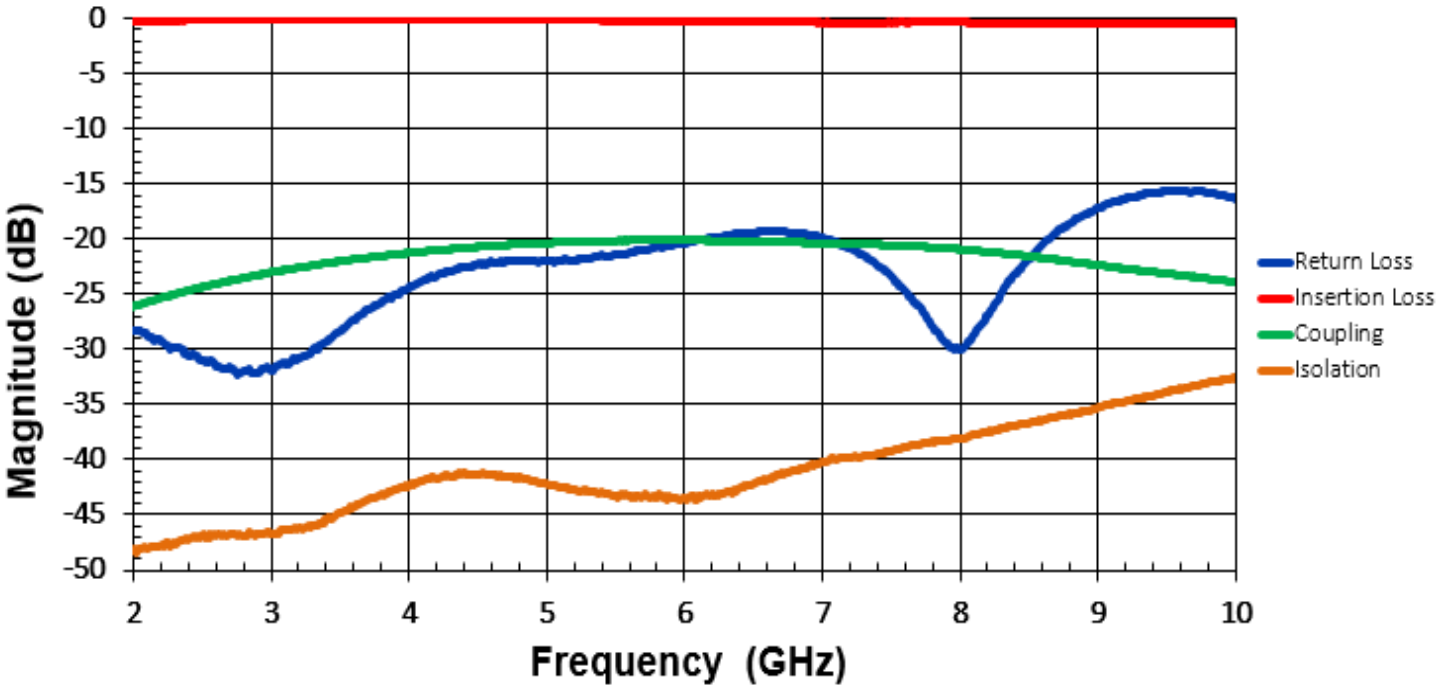
- Small Size
- Fully Shielded Component
- Wirebond
- Moisture Sensitivity Level: MSL1
- Frequency Stable over Temperature
- Operating & Storage Temp: -55˚C to +125˚C
- Characteristic Impedance: 50Ω

SPECIFICATIONS*

Parameter	Frequency (GHz)	Min	Max
Passband Insertion Loss* (dB)	4 - 8		0.3
Passband Return Loss (dB)		15	
Coupling (dB)		20	22
Directivity (dB)		16	
Input Power			TBD
Size (LxWxH)	0.170 x .080 x .015 in 4.572 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.

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

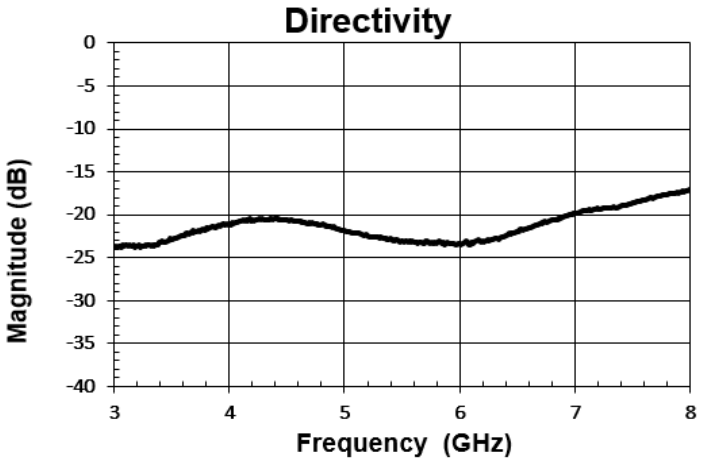
February 2018

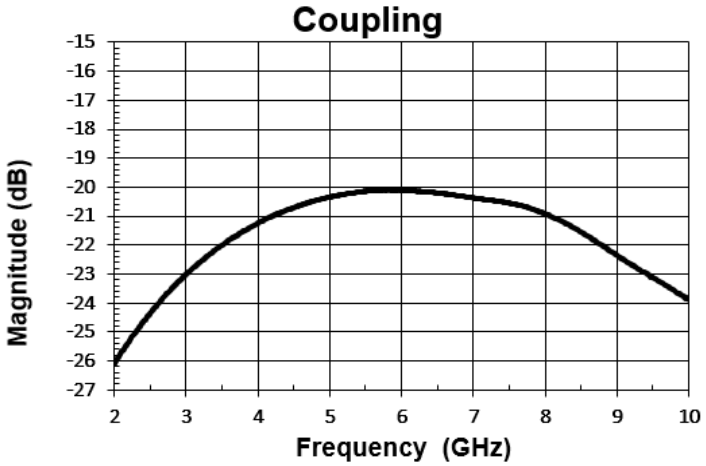
DIELECTRIC LABORATORIES
a Knowles Precision Devices brand

4 to 8GHz 20dB Directional Coupler

FPC06152

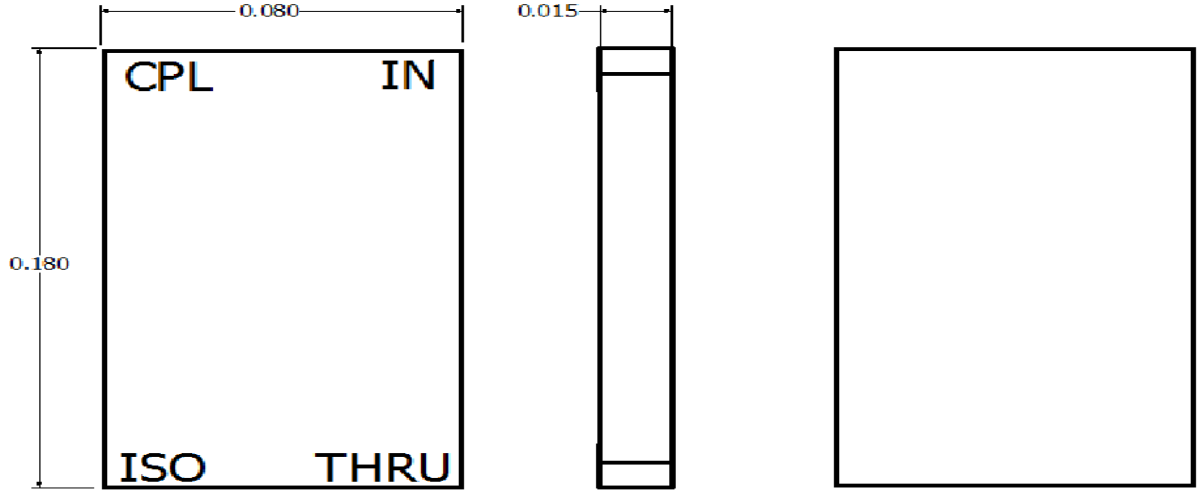
knowles PRECISION DEVICES
COMPEX • DLI • JOHANSON MFG
NOVACAP • SYFER • VOLTRONICS
www.knowlescapacitors.com





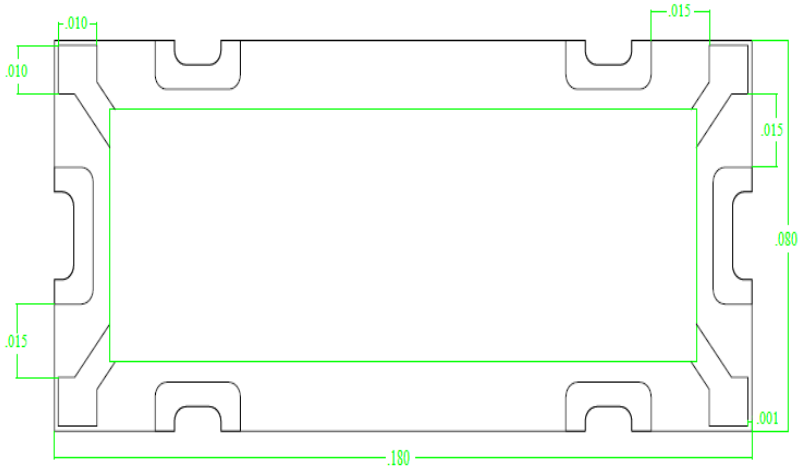
Physical Dimensions

Units = Inches



Top Side Bottom

Recommended PCB Layout



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

ISO 9001 QMI-SAI Global
AS 9100 QMI-SAI Global
RoHS 2011/65/EU Lead Free

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

February 2018