

DC- 40 GHz Flip Chip Resistive Divider

PDR06380

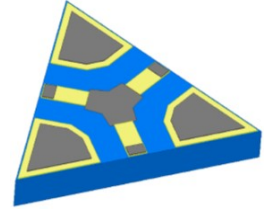
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DESCRIPTION

A flip chip resistive divider ideal for applications where small size and broad band performance are critical for success. This component is ideal for test and measurement and optical applications. The divider is provided with all pads ENIG plated for solder surface mount integration.

FEATURES

- Small Size
- Frequency Stable over Temperature
- Flip Chip Solder Surface Mountable
- Available with AuSn Bumped I/O Pads
- Moisture Sensitivity Level: MSL1
- Operating & Storage Temp: -55°C to +125°C
- Characteristic Impedance: 50Ω

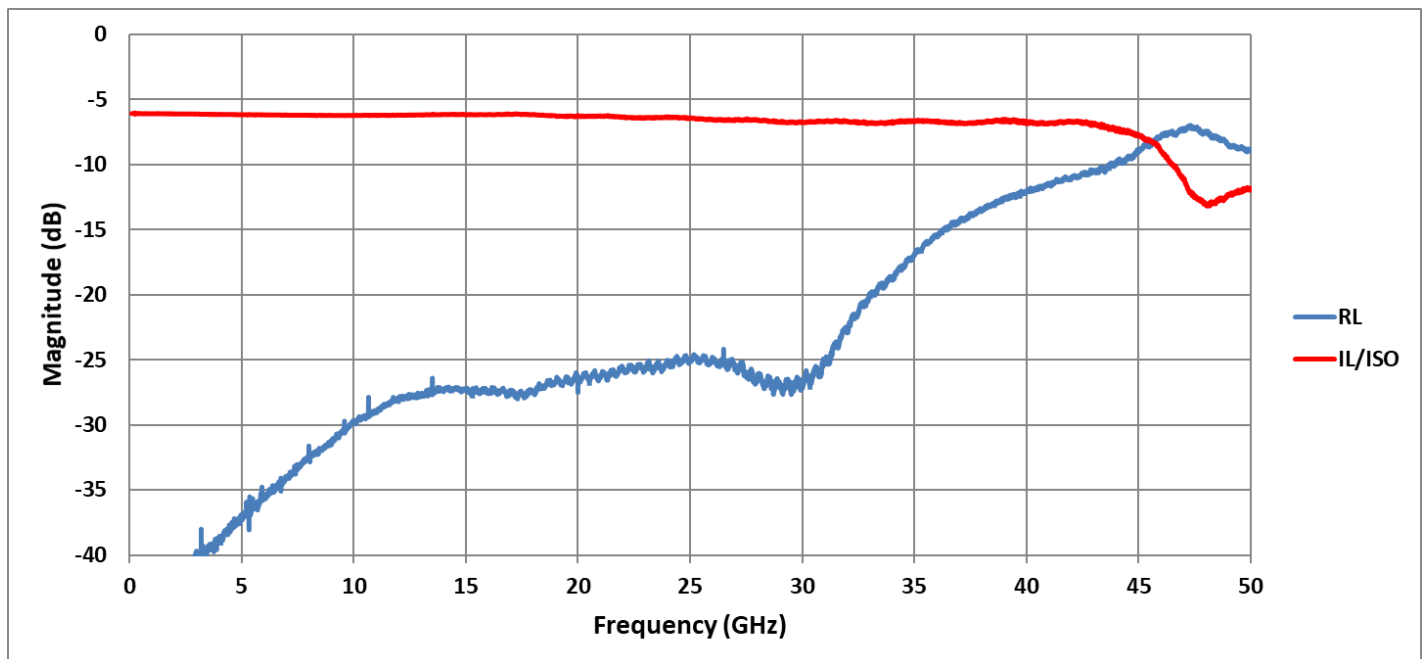


SPECIFICATIONS*

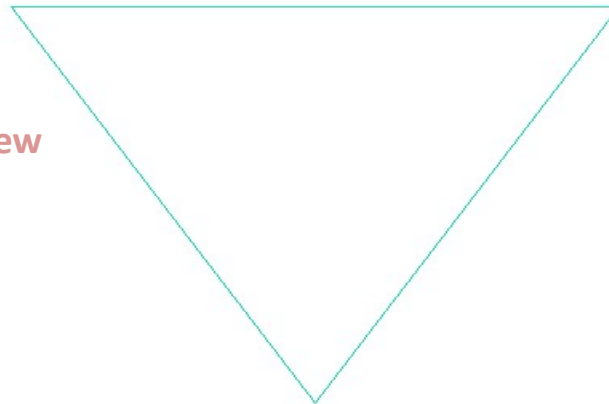
Parameter	Frequency	Min	Typ	Max
Excess Insertion Loss (dB)	DC - 40GHz		0.5dB	1dB
Return Loss (dB)	DC - 30GHz	20dB	25dB	
	30-40GHz	10dB	15dB	
Size (LxWxH)		0.075 x 0.065 x 0.010 in 1.905 x 1.651 x 0.254 mm		

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

Typical Measured Performance



Side View



SEE NOTE 2.3

SEE NOTE 2.1

SEE NOTE 2.2

RESISTOR

DETAIL A

.065

.075

RF Pads

Ground Pads

ENIG plated for solder surface mount integration.

2. METALLIZATION:

2.1

200 μ INCHES MIN. Au OVER

2.2

3-6 μ INCHES Au OVER

50 μ INCHES MIN. Ni OVER

200 μ INCHES MIN. Au OVER

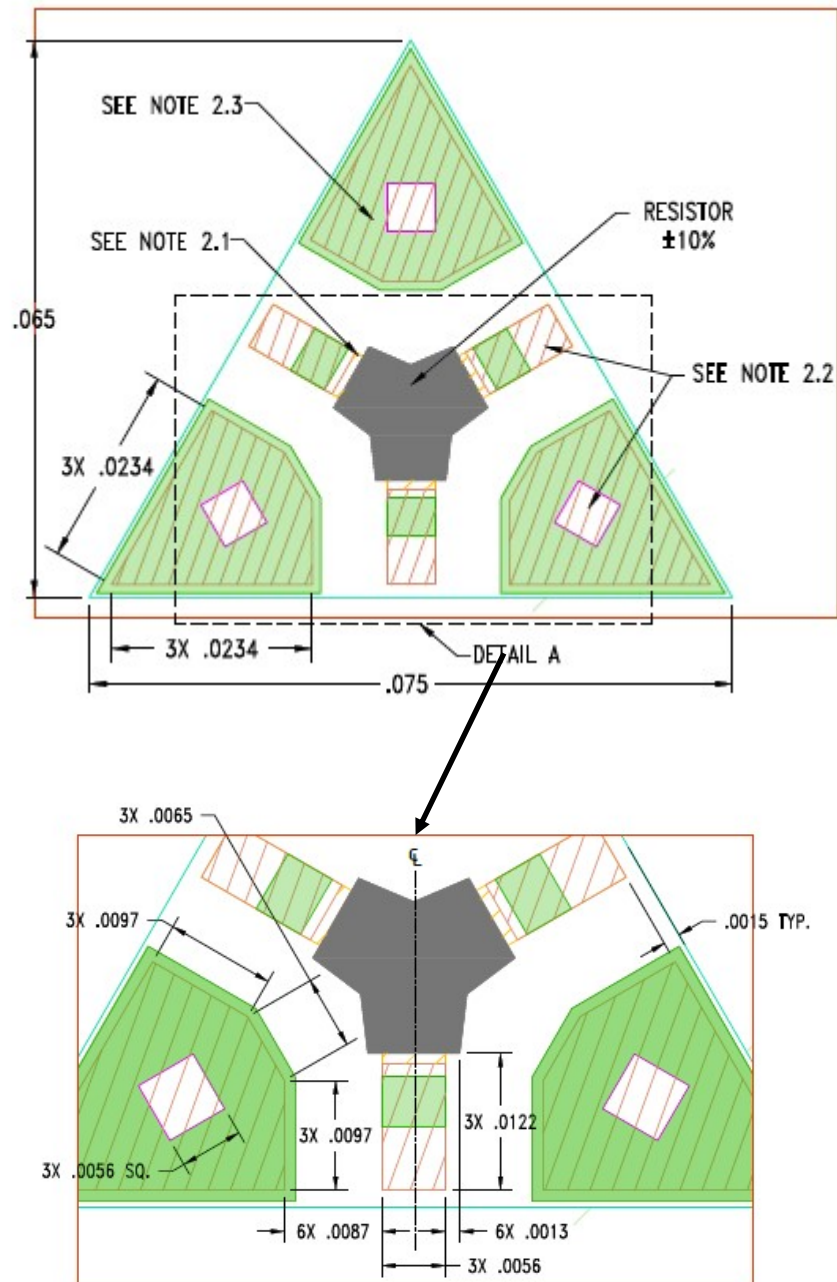
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Recommended PCB (Unit = inches)

3X RF & 3X ground pad dimensions

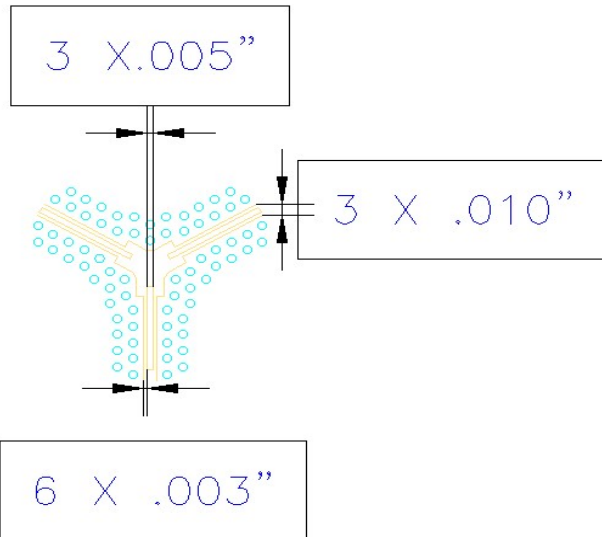


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Recommended PCB Layout (Unit = inches)



Recommend PCB board :

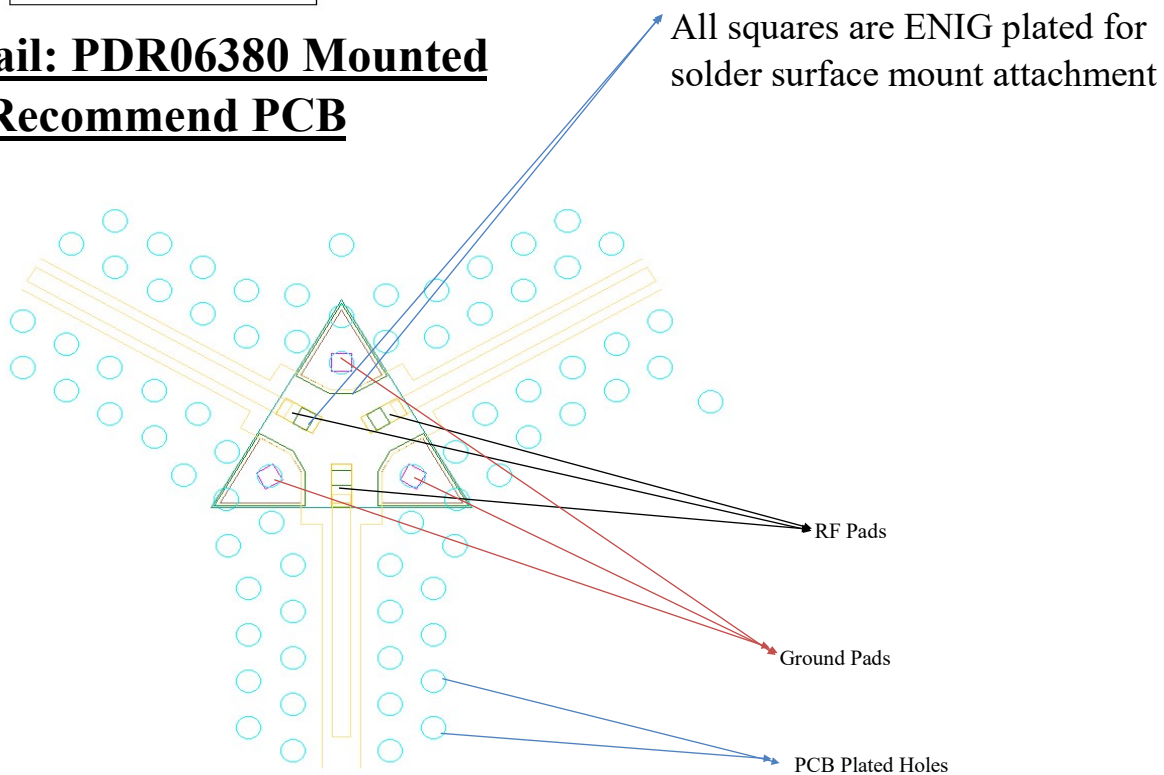
RF signal is carried on 50.0Ω GCPW trace with the following critical dimensions :

10.0 mil thick Alumina (AL) board

5.0 mil width RF trace (copper)

3.0 mil gap between the RF trace and PCB ground.

Detail: PDR06380 Mounted on Recommend PCB



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