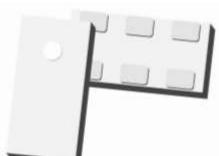




Ultra Low Profile 0603 RF Crossover



Description

The (patent pending) X0060L5050AHF is an ultra-small low profile crossover that enables the transition of two intersecting RF traces in an easy to use industry standard SMT package. The 0603 crossover is ideal for any critical applications where layout and available space are a premium and resorting to addition PWB layers and larger overall footprints are unacceptable. With low insertion loss and high isolation packaged with cost in mind, this novel component delivers.

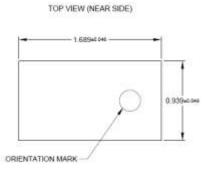
Detailed Electrical Specifications*: Specifications subject to change without notice.

Features:

- 0 -6000 MHz.
- 0.7mm Height Profile
- 50 Ohm RF-RF Crossover
- All Wireless Frequencies
- Low Insertion Loss
- LOW INSCRION LOS
- High Isolation
- Surface Mountable
- Tape & Reel
- Non-conductive Surface
- RoHS Compliant
- Halogen Free

opecinications subject to change without no		OOM (25°	C)	
Parameter	Min.	Typ.	Max	Unit
Frequency	0		6000	MHz
Port Impedance		50		Ω
Return Loss	16	19		dB
Insertion Loss		0.1	0.15	dB
Isolation (cross-talk)				
0 – 700 MHz	45	53		dB
700 - 1700 MHz	40	47		dB
1700 - 2200 MHz	39	46		dB
2200 - 3000 MHz	37	43		dB
3000 - 6000 MHz	27	31		dB
Power Handling			2	Watts
Operating Temperature	-55		+85	°C

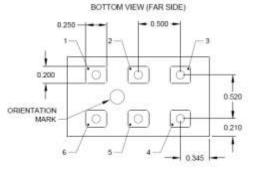
Outline Drawing



Dimensions are in mm



INPUT / OUTPUT
INPUT / OUTPUT
OUTPUT / INPUT
GROUND
OUTPUT / INPUT
GROUND



Tolerances are Non-Cumulative

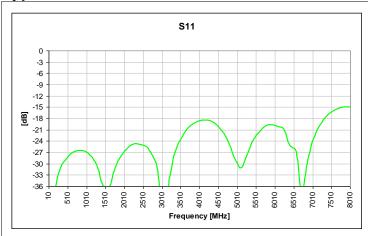


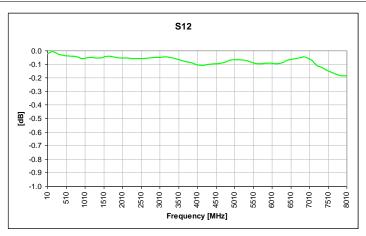
Visit us at www.anaren.com

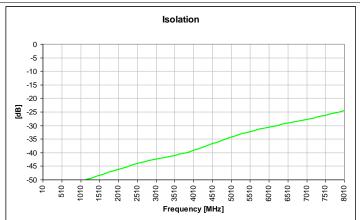
USA/Canada: (315) 432-8909 Toll Free: (800) 411-6596 Europe: +44 2392-232392 Asia: +86 512-62749282

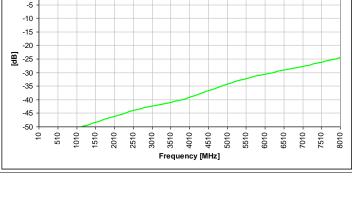


Typical Broadband Performance: 10 MHz. to 8.01 GHz.









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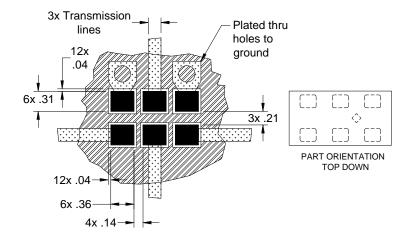
Mounting Configuration:

In order for Xinger surface mount components to work optimally, the proper impedance transmission lines must be used to connect to the RF ports. If this condition is not satisfied, insertion loss, Isolation and VSWR may not meet published specifications.

All of the Xinger components are constructed from ceramic filled PTFE composites which possess excellent electrical and mechanical stability having X and Y thermal coefficient of expansion (CTE) of 17 ppm/°C.

An example of the PCB footprint used in the testing of these parts is shown on below. In specific designs, the transmission line widths need to be adjusted to the unique dielectric coefficients and thicknesses as well as varying pick and place equipment tolerances.







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Model X0060L5050AHF

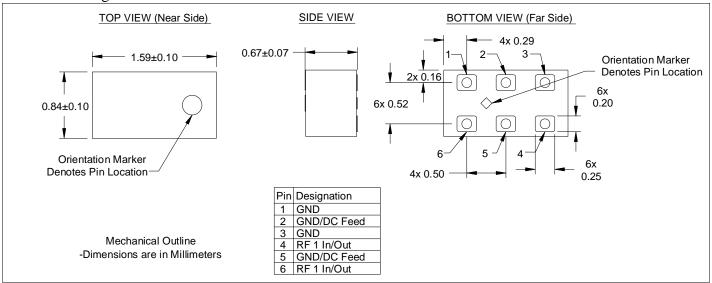
Rev C



App Note:

X0060L5050AHF can also be used as a jumper by slightly changing the pin out designation as shown below in the outline drawing.

Outline Drawing





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