

Xinger®

Ultra Low Profile 0603 RF Crossover

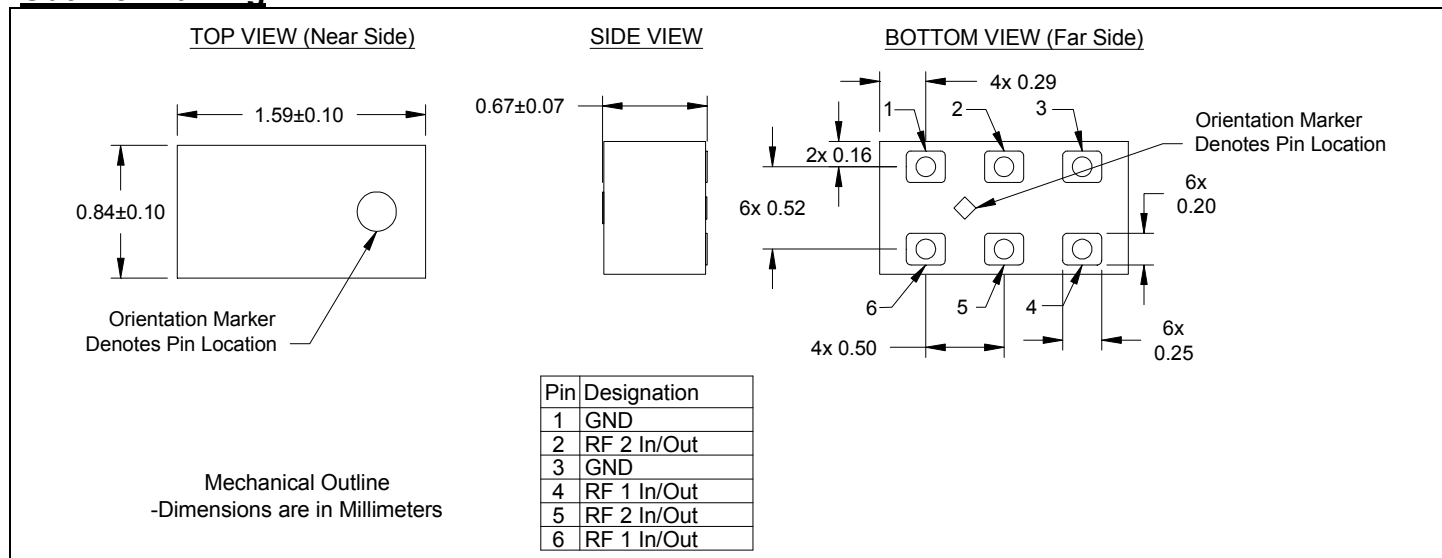
Description

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.

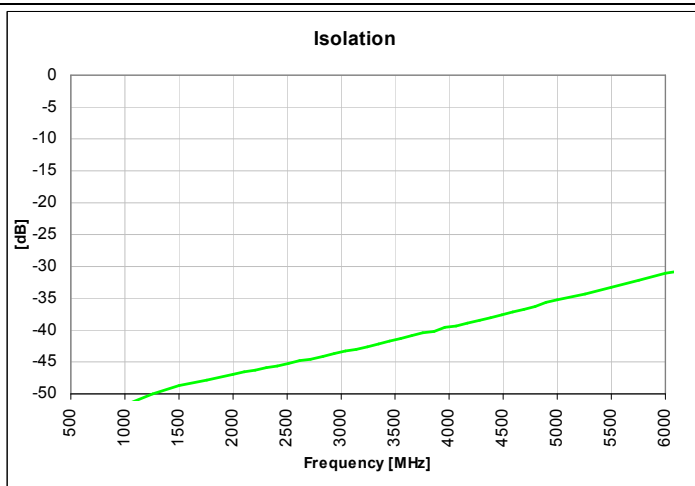
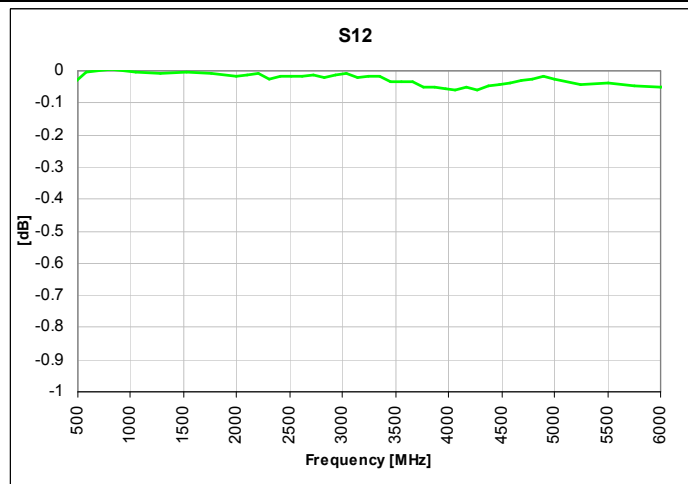
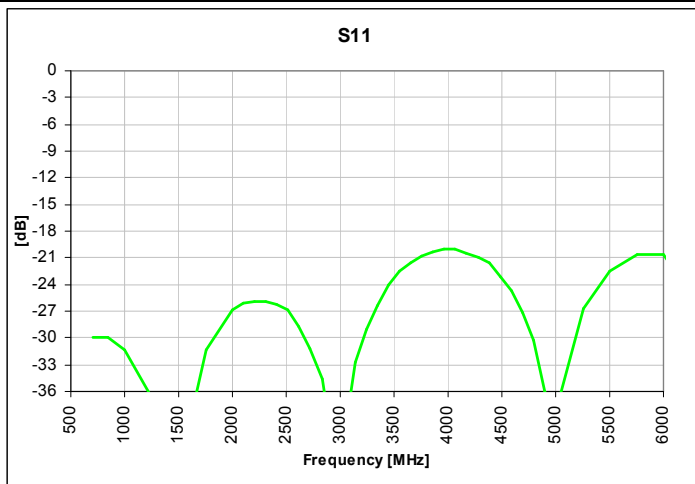
Detailed Electrical Specifications*: Specifications subject to change without notice.

Features:	Parameter	ROOM (25°C)			Unit
		Min.	Typ.	Max	
• 0 – 6000 MHz.	Frequency	0		6000	MHz
• 0.7mm Height Profile	Port Impedance		50		Ω
• 50 Ohm RF-RF Crossover	Return Loss	16	19		dB
• All Wireless Frequencies	Insertion Loss		0.1	0.15	dB
• Low Insertion Loss	Isolation (cross-talk)				
• High Isolation	0 – 700 MHz	45	53		dB
• Surface Mountable	700 - 1700 MHz	40	47		dB
• Tape & Reel	1700 - 2200 MHz	39	46		dB
• Non-conductive Surface	2200 - 3000 MHz	37	43		dB
• RoHS Compliant	3000 - 6000 MHz	27	31		dB
• Halogen Free	Power Handling			2	Watts
	Operating Temperature	-55		+85	°C

Outline Drawing



Typical Broadband Performance: 0 GHz. to 4.5GHz.



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.

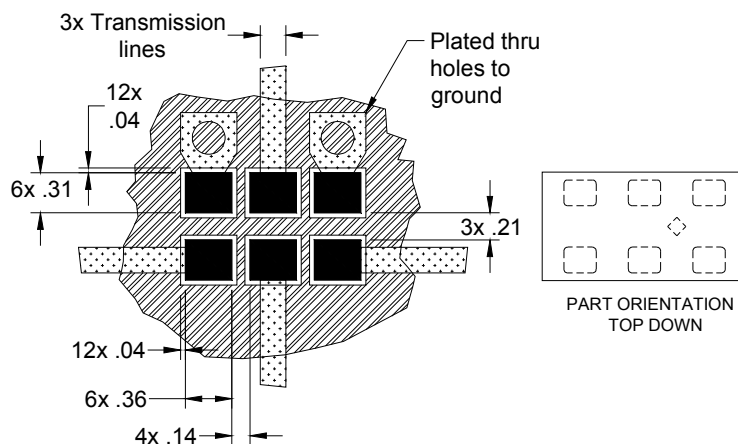
An example of the PCB footprint used in the testing of these parts is shown on below. In specific designs, the transmission line widths need to be adjusted to the unique dielectric coefficients and thicknesses as well as varying pick and place equipment tolerances.

 Circuit Pattern

 Footprint Pad (s)

 Solder Resist

Dimensions are in Millimeters
Mounting Footprint



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[X0060L5050AHF](#)