Model X0060L5050A00



Ultra Low Profile 0603 RF Crossover



Description

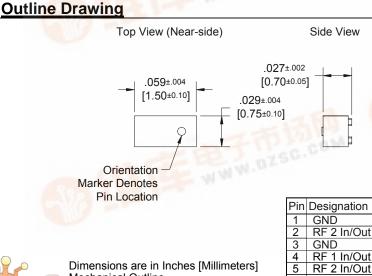
The (patent pending) X0060L5050A00 is an ultra-small low profile crossover that enables the transition of two intersecting RF traces in an easy to use industry standard SMT package. The 0603 crossover is ideal for any critical applications where layout and available space are a premium and resorting 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:

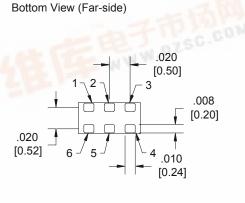
- 0-6000 MHz.
- 0.7mm Height Profile
- 50 Ohm RF-RF Crossover
- All Wireless Frequencies
- **Low Insertion Loss**
- **High Isolation**
- **Surface Mountable**
- Tape & Reel
- **Non-conductive Surface**
- **RoHS Compliant**

	- 1 C	ROOM (25°C)			
	Parameter	Min.	Тур.	Max	Unit
	Frequency	0		6000	MHz
	Port Impedance		50		Ω
1	Return Loss	16	19		dB
	Insertion Loss		0.1	0.15	dB
	Isolation (cross-talk)				676
	0 – 700 MHz	45	53	布加	dB
	700 - 1700 MHz	40	47	DZSC.C	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



Dimensions are in Inches [Millimeters]

Mechanical Outline



Tolerances are Non-Cumulative



Available on Tape and Reel for Pick and

RF 1 In/Out

USA/Canada: Toll Free:

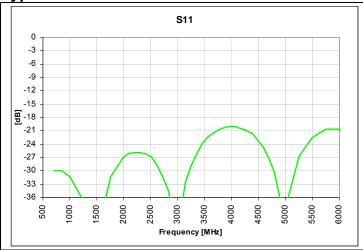
(315) 432-8909 (800) 411-6596

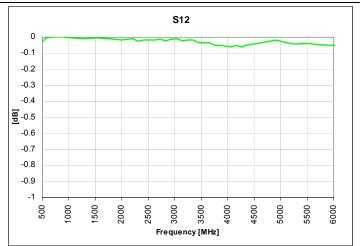
Model X0060L5050A00

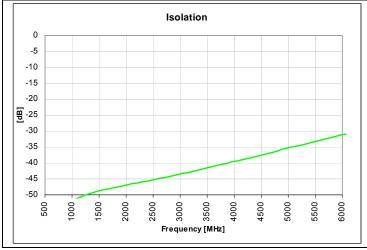




Typical Broadband Performance: 0 GHz. to 4.5GHz.









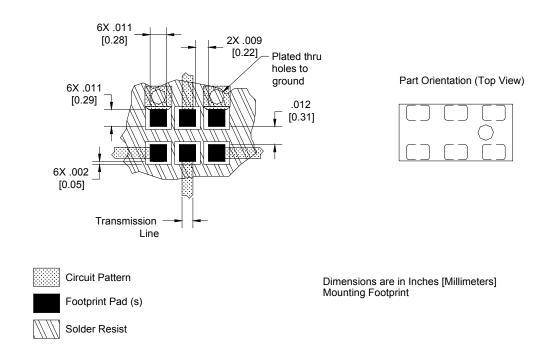


Mounting Configuration:

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.



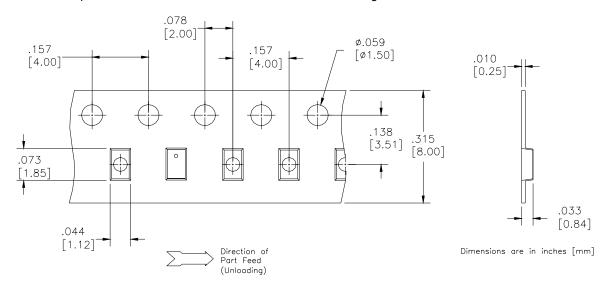


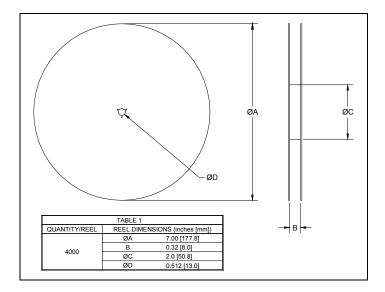




Packaging and Ordering Information

Parts are available in reel and are packaged per EIA 481-2. Parts are oriented in tape and reel as shown below. Minimum order quantities are 4000 per reel. See Model Numbers below for further ordering information.







BD 2425 J 50 100 A 00

Function	Frequency	Package	Unbalanced	'		Codes
		Dimensions	Impedance	+ Coupling	Finish	
B = Balun	0110 = 100 - 1000 MHz	A = 150 x 150 mils	50 = 50 Ohm	25 = 25 Ω Balanced	A = Gold	
BD = Balun + DC	0810 = 800 - 1000 MHz	(4mm × 4mm)	75 = 75 Ohm	$30 = 30 \Omega$ Balanced	P = Tin-Lead	
F = Filter	0922 = 950 - 2150 MHz	C = 120 x 120 mils		$50 = 50 \Omega$ Balanced		
FB = Filter / Balun	0826 = 800 - 6200 MHz	(3mm x 3mm)		75 = 75 Ω Balanced		
C = 3dB Coupler	1222 = 1200 - 2200 MHz	E = 100 x 80 mils		100 = 100 Ω Balanced		
DC = Directional	1416 = 1400 - 1600 MHz	(2.5mm x 2mm)		150 = 150 Ω Balanced		
J = RF Jumper	1722 = 1700 - 2200 MHz	$J = 80 \times 50 \text{ mils}$		200 = 200 Ω Balanced		
X = RF cross over	2326 = 2300 - 2600 MHz	(2mm x 1.25mm)		300 = 300 Ω Balanced		
	2425 = 2400 - 2500 MHz	L = 60 x 30 mils		400 = 400 Ω Balanced		
	3150 = 3100 - 5000 MHz	(1.5mm x 0.75mm)		03 = 3dB Hybrid		
	3436 = 3400 - 3600 MHz	N = 40 x 40 mils		10 = 10dB Directional		
	4859 = 4800 - 5900MHz	(1mm x 1mm)		20 = 20dB Directional		
	5153 = 5100 - 5300 MHz					
	5159 = 5100 - 5900 MHz					
	5759 = 5700 - 5900 MHz					

