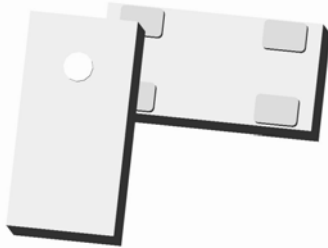


Xinger®

Ultra Low Profile 0603 RF Jumper



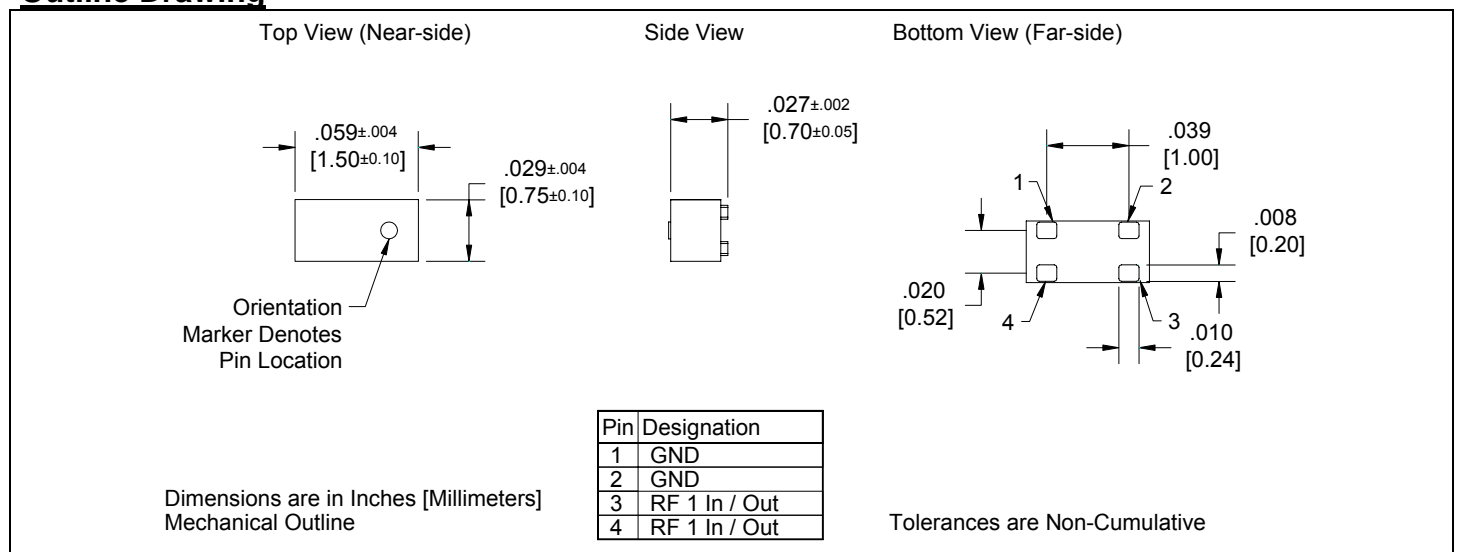
Description

The (patent pending) J0060L7575A00 is an ultra-small low profile jumper that enables the transition of two intersecting RF traces in an easy to use industry standard SMT package. The 0603 jumper permits one path to continue on the PWB while the other path is jumped within the component. The jumper is ideal for any critical applications where layout and available space are a premium and resorting to additional PWB layers and larger overall footprints are unacceptable. With low insertion loss and high isolation packaged with cost in mind, this novel component delivers.

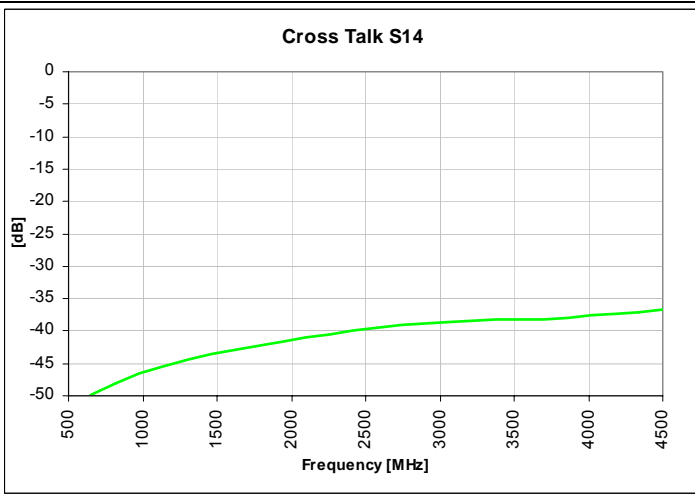
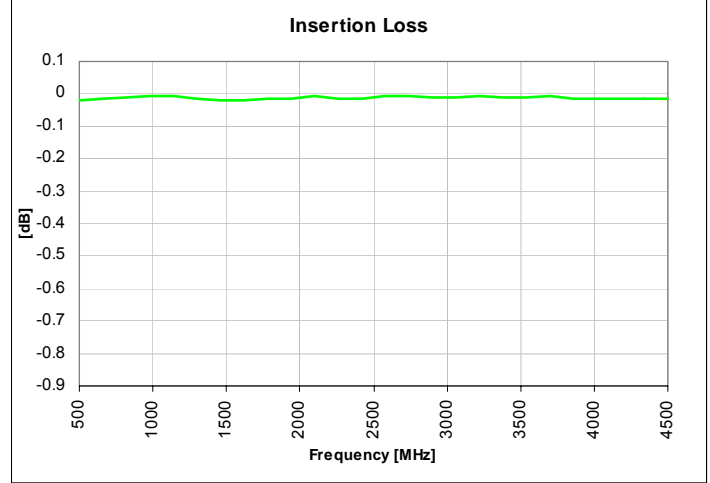
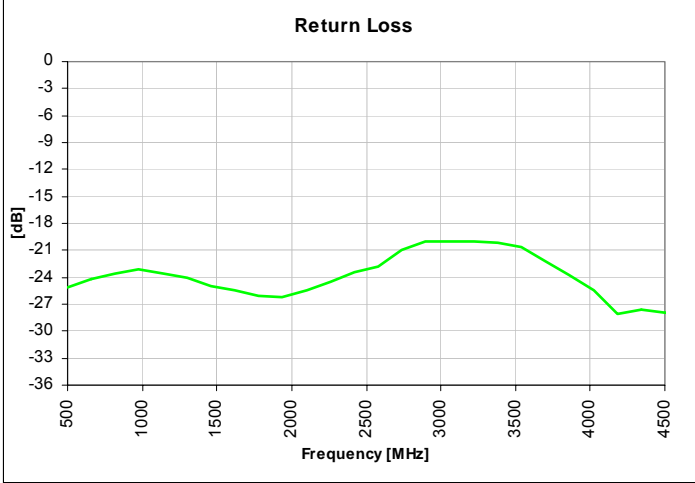
Detailed Electrical Specifications*: Specifications subject to change without notice.

Features:	Parameter	ROOM (25°C)			Unit	
		Min.	Typ.	Max		
<ul style="list-style-type: none"> • 0 – 2500 MHz. • 0.7mm Height Profile • 75 Ohm RFJumper • All Wireless Frequencies • Low Insertion Loss • High Isolation • Surface Mountable • Tape & Reel • Non-conductive Surface • RoHS Compliant 	Frequency	0		2500	MHz	
	Port Impedance		75		Ω	
	Return Loss	19	22		dB	
	Insertion Loss		0.13	0.2	dB	
	Isolation (cross-talk)					
	0 – 700 MHz	45	51		dB	
	700 - 1700 MHz	40	45		dB	
	1700 - 2200 MHz	38	43		dB	
	Power Handling			2	Watts	
	Operating Temperature	-55		+85	°C	

Outline Drawing



Typical Broadband Performance: 500 MHz. to 4500 MHz.



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

Available on Tape and
Reel for Pick and Place
Manufacturing.



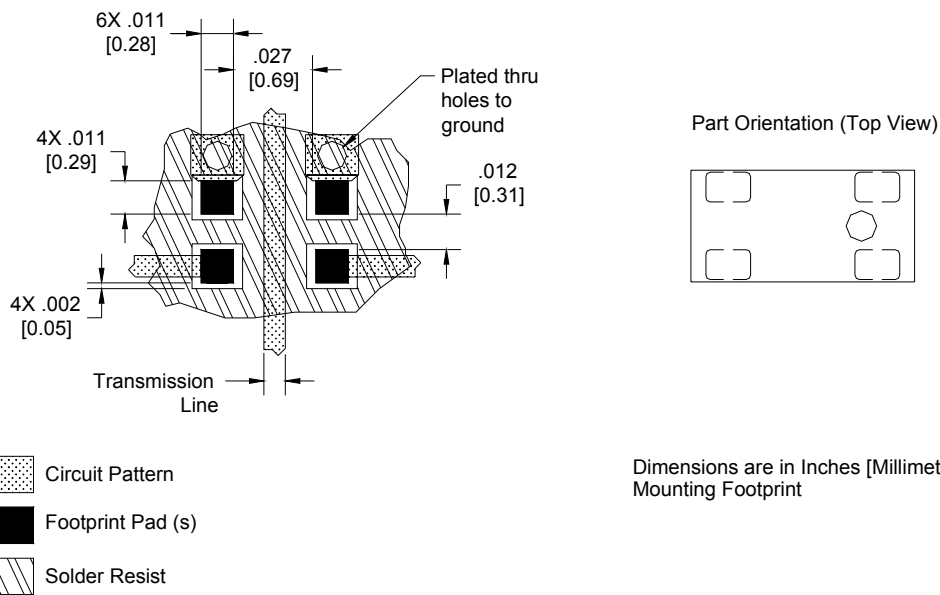
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Mounting Configuration:

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.

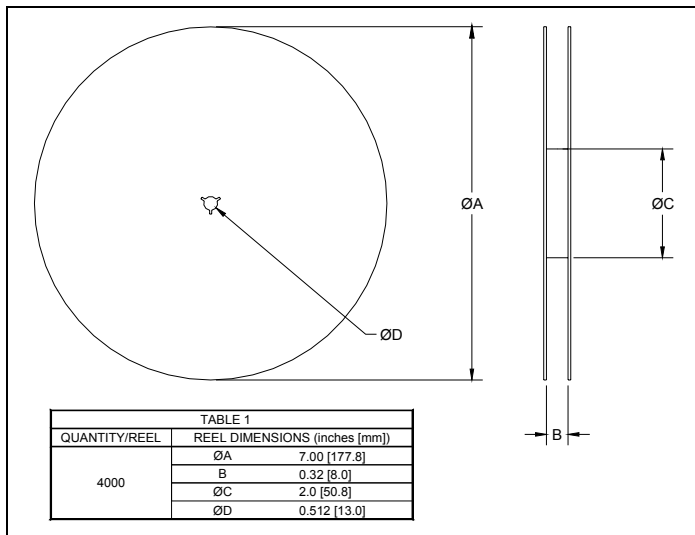
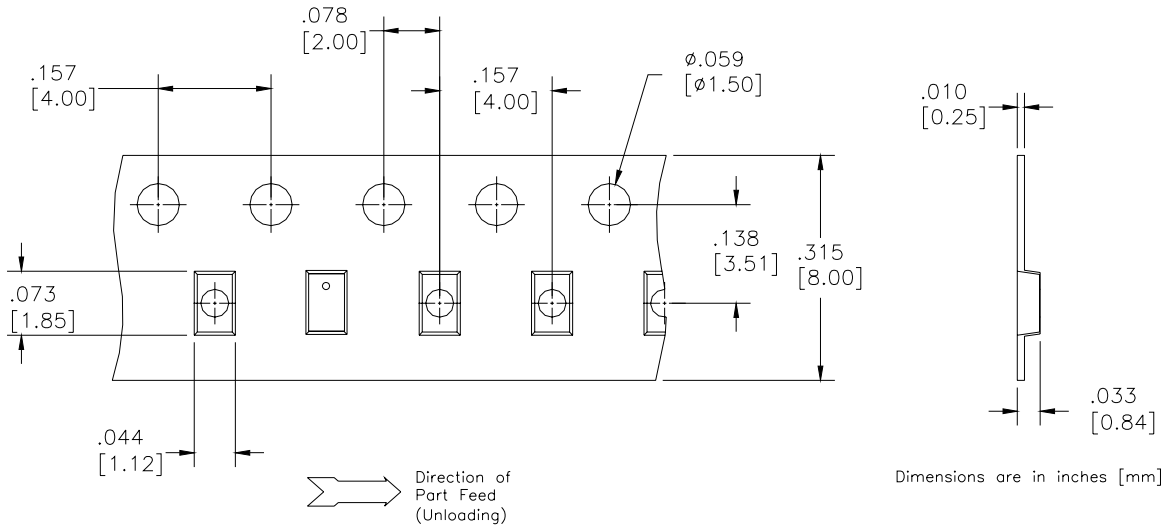
All of the Xinger components are constructed from ceramic filled PTFE composites which possess excellent electrical and mechanical stability having X and Y thermal coefficient of expansion (CTE) of 17 ppm/°C.

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.



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.



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

Available on Tape and Reel for Pick and Place Manufacturing.



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BD 2425 J 50 100 A 00

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

