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# Ultra Low Profile 0805 Power Divider $75\Omega$ to $75\Omega$

#### **Description**

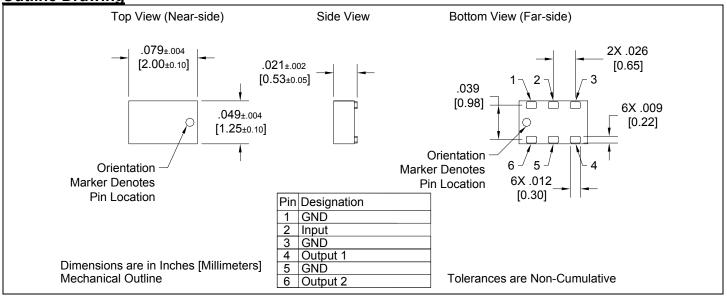
The PD0409J7575S2 is a low profile, sub-miniature Wilkinson power divider in an easy to use surface mount package. The PD0409J7575S2 is ideal for high volume manufacturing and delivers higher performances than traditional printed and lumped element solutions. The PD0409J7575S2 is matched to 75  $\Omega$  and has a height profile of 0.5 mm which is ideal for high level integrations in the following markets: GSM, WCDMA, DVB-H (Europe) and Terrestrial TV. The PD0409J7575S2 does not include the resistive element and therefore, requires an external resistor for operation. The PD0409J7575S2 is available on tape and reel for high volume manufacturing pick and place.

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

	ROOM (25°C)			
ər	Min.	Тур.	Max	Unit
ÿ	400		900	MHz
t Impedance		75		Ω
ort Impedance		75		Ω
DSS	10	12		dB
Loss*		0.5	0.6	dB
e Balance		0.1	0.6	dB
alance		1	3	Degrees
(Output Ports)	8.2	9.3		dB
andling			2	Watts
g Temperature	-55		+85	°C
	er by t Impedance ort Impedance bss Loss* e Balance alance (Output Ports) andling g Temperature	erMin.cy400t Impedance10ort Impedance10css10Loss*400e Balance8.2andling8.2	erMin.Typ.cy400t Impedance75ort Impedance75oss1012Loss*0.5e Balance0.1alance1(Output Ports)8.29.3andling-55	er Min. Typ. Max   cy 400 900   t Impedance 75 900   ort Impedance 75 900   oss 10 12   Loss* 0.5 0.6   e Balance 1 3   (Output Ports) 8.2 9.3   andling 2 2   g Temperature -55 +85

\* Insertion Loss stated at room temperature (Insertion Loss is approximately 0.1 dB higher at +85 °C)

#### **Outline Drawing**



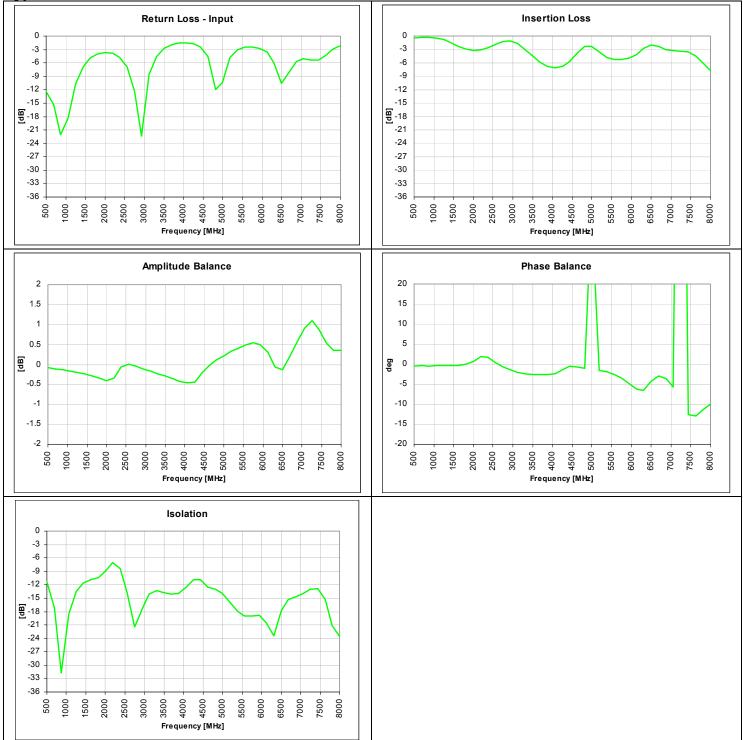




Available on Tape and Reel for Pick and Place Manufacturing. USA/Canada: (315) 432-8909 Toll Free: (800) 411-6596 Europe: +44 2392-232392



### Typical Broadband Performance: 500 MHz. to 8.0 GHz.



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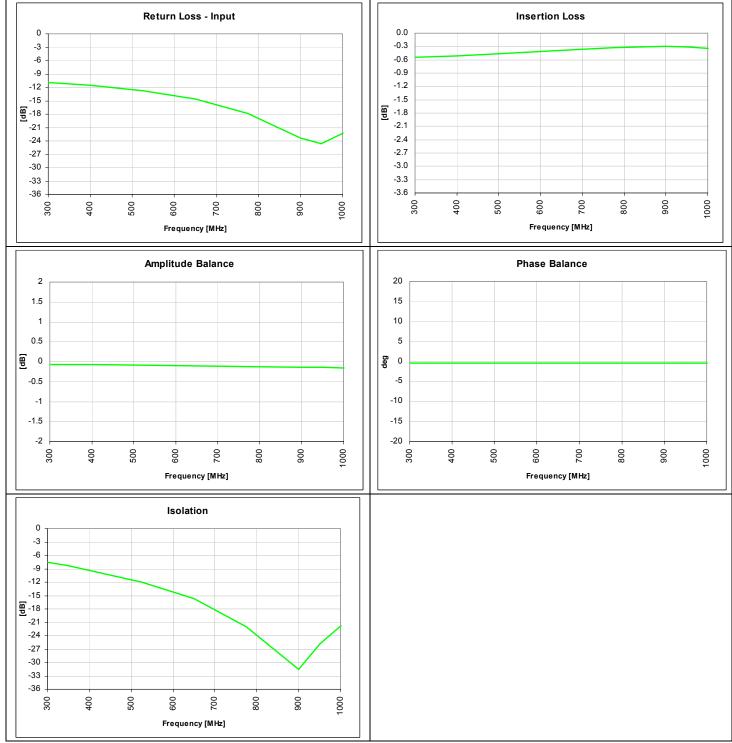
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# Model PD0409J7575S2

## Typical Performance: 300 MHz. to 1000 MHz.





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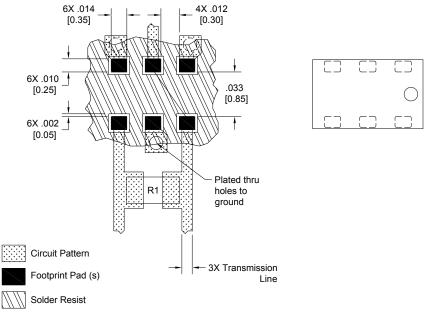
### Mounting Configuration:

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.

An example of the PCB footprint used in the testing of these parts is shown 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. In addition, since the PD0409J7575S2 is a Wilkinson power divider, an external  $0603\ 150\Omega$  resistor must be mounted in locations R1 as shown in the Figure below.

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.

#### Pad Footprint w/ 0603 Resistor Locations



Dimensions are in Inches [Millimeters] Mounting Footprint

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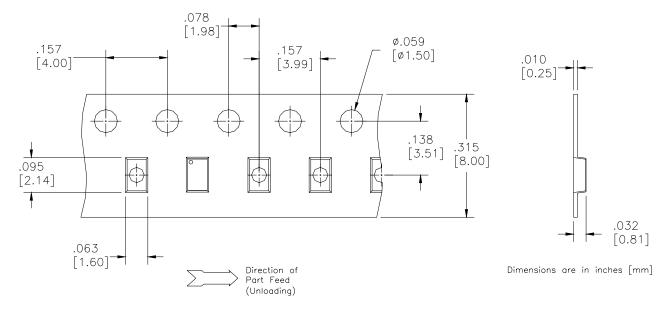
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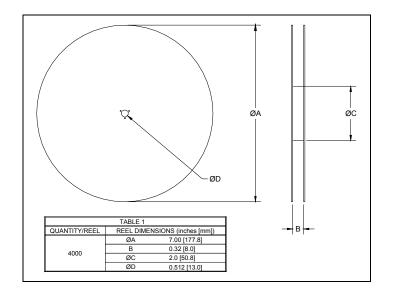




## Packaging and Ordering Information

Parts are available in reels 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.







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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	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		50 = 50 Ohm 75 = 75 Ohm	$\begin{array}{l} 25 = 25 \ \Omega \ \text{Balanced} \\ 30 = 30 \ \Omega \ \text{Balanced} \\ 50 = 50 \ \Omega \ \text{Balanced} \\ 75 = 75 \ \Omega \ \text{Balanced} \\ 100 = 100 \ \Omega \ \text{Balanced} \\ 150 = 150 \ \Omega \ \text{Balanced} \\ 200 = 200 \ \Omega \ \text{Balanced} \\ 200 = 300 \ \Omega \ \text{Balanced} \\ 400 = 400 \ \Omega \ \text{Balanced} \\ 400 = 400 \ \Omega \ \text{Balanced} \\ 10 = 10 \ \text{Balanced} \\ 10 = 20 \ \text{Balanced} \\ 10 = 10 \ Balance$	A = Gold P = Tin-Lead	

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Available on Tape and Reel for Pick and Place Manufacturing.



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