imall

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



Contact us

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Ultra Low Profile 0805 Power Divider 50Ω to 50Ω

Description

The PD2425J5050S2 is a low profile, sub-miniature Wilkinson power divider in an easy to use surface mount package. The PD2425J5050S2 is ideal for high volume manufacturing and delivers higher performances than traditional printed and lumped element solutions. The PD2425J5050S2 is matched to 50 Ω and has a height profile of 0.5 mm which is ideal for high level integrations in the following markets: WiMAX, 802.11b & g, Bluetooth, ZigBee, and XM & Sirius radio. The PD2425J5050S2 does not include the resistive element and therefore, requires an external resistor for operation. The PD2425J5050S2 is available on tape and reel for high volume manufacturing pick and place.

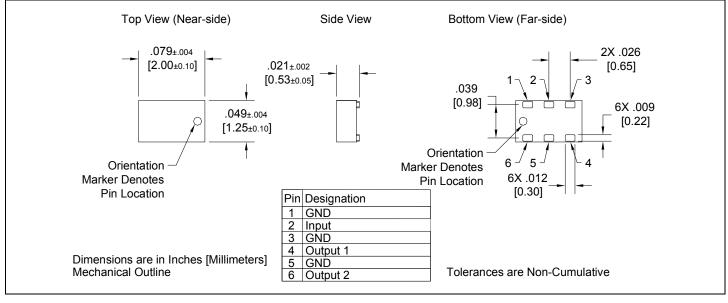
Detailed Electrical Specifications: Specifications subject to change without notice.

		ROOM (25°C)			
Features:	Parameter	Min.	Тур.	Max	Unit
• 2400-2500 MHz	Frequency	2400		2500	MHz
• 22 dB Isolation (output ports)	Input Port Impedance		50		Ω
 Good Return Loss 0.5 mm Height Profile 50Ω Input / 50Ω Outputs 	Output Port Impedance		50		Ω
	Return Loss	18	25		dB
Low Insertion Loss	Insertion Loss*		0.3	0.4	dB
Surface Mountable	Amplitude Balance		0.1	0.2	dB
Tape & Reel	Phase Balance		1	2	Degrees
Non-conductive Surface Rouge Compliant	Isolation (Output Ports)	22	33		dB
 RoHS Compliant External Resistor Required 	Power Handling			2	Watts
	Operating Temperature	-55		+85	°C

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

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Outline Drawing

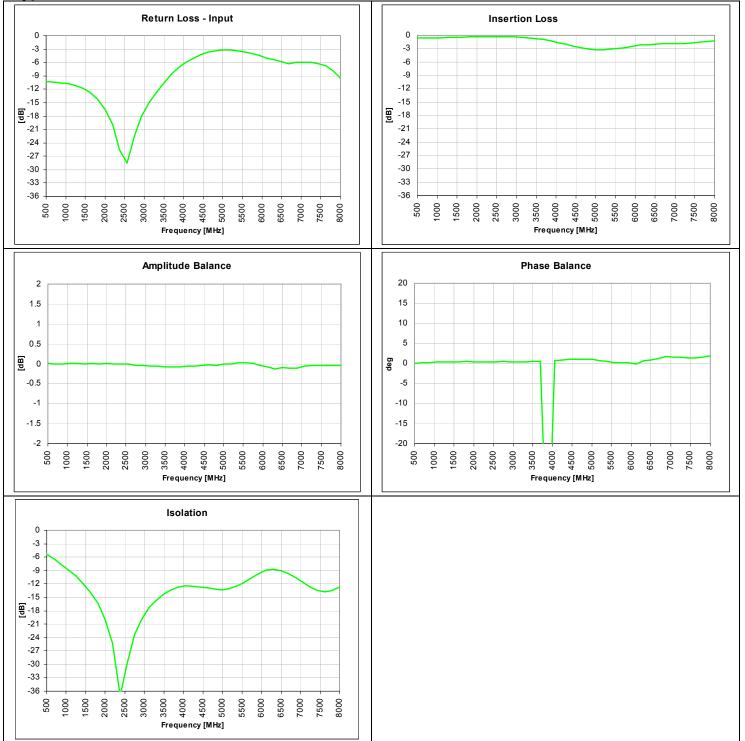




Available on Tape and Reel for Pick and Place Manufacturing. USA/Canada: (315) 432-8909 Toll Free: (800) 411-6596 Europe: +44 2392-232392



Typical Broadband Performance: 500 MHz. to 8.0 GHz.



USA/Canada: Toll Free: Europe:

(315) 432-8909 (800) 411-6596 +44 2392-232392

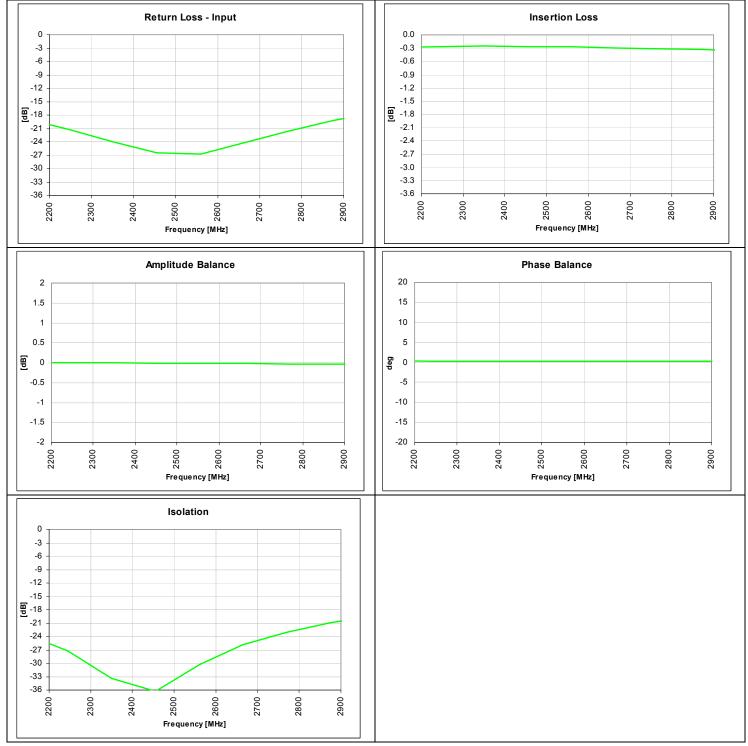
Available on Tape and Reel for Pick and Place Manufacturing.





Model PD2425J5050S2

Typical Performance: 2200 MHz. to 2900 MHz.





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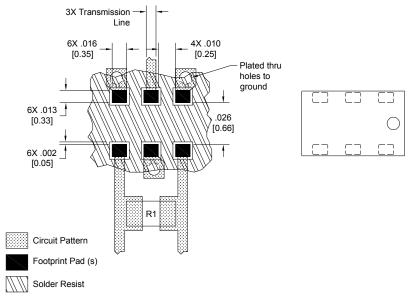
Mounting Configuration:

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 PD2425J5050S2 is a Wilkinson power divider, an external 0603 100 Ω 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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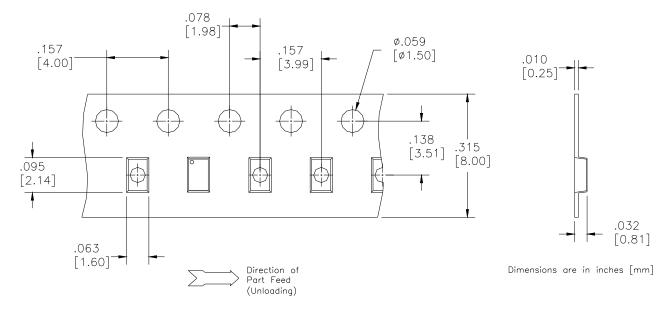
Available on Tape and Reel for Pick and Place Manufacturing.

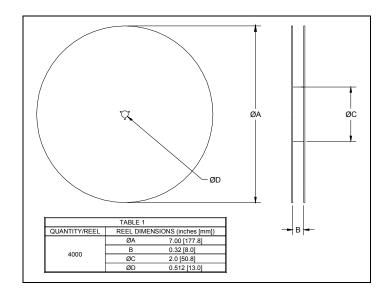




Packaging and Ordering Information

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.







Available on Tape and Reel for Pick and Place Manufacturing. USA/Canada: Toll Free: Europe:

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

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Available on Tape and Reel for Pick and Place Manufacturing.

