



Ultra Low Profile 0805 Power Divider 75Ω to 75Ω



Description:

The PD0922J7575D2HF is a low profile, sub-miniature Wilkinson power divider in an easy to use surface mount package and is ideal for high volume manufacturing while delivering higher performances than traditional printed and lumped element solutions. It has been designed for the following markets: DVB-S, GSM, DCS, PCS, WCDMA, GPS, 802.11a+g, Bluetooth, and Zigbee USA.

The PD0922J7575D2HF is matched to 75Ω and has a height profile of 0.8 mm. A two section Wilkinson design results in increased isolation performance. Two external resistors are required for operation. Components are available on tape and reel for high volume manufacturing pick and place.

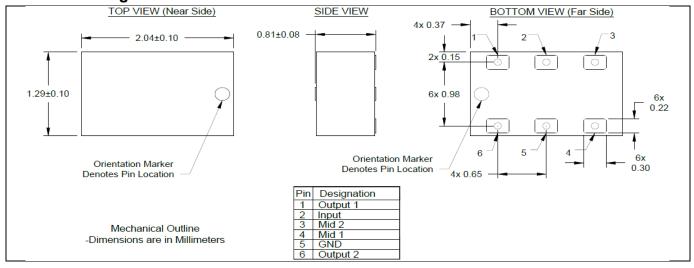
Detailed Electrical Specifications:

Specifications subject to change without notice.

		ROOM (25°C)			
<u>Features:</u>	Parameter	Min.	Тур.	Max	Unit
• 950 – 2150 MHz	Frequency	950		2150	MHz
• 16 dB Isolation (output ports)	Input Port Impedance		75		Ω
Good Return Loss O Smm Height Profile	Output Port Impedance		75		Ω
 0.8mm Height Profile 75Ω Outputs/Inputs 	Return Loss	9.5	11		dB
External resistors required	Insertion Loss*		0.8	1.0	dB
Low Insertion Loss	Amplitude Balance		0.4	0.7	dB
Surface Mountable	Phase Balance		2	3	Degrees
Tape & Reel	Isolation (Output Ports)	14	16	Ŭ	dB
Non-conductive Surface		14	10	0	
RoHS Compliant	Power Handling			2	Watts
Halogen Free	Operating Temperature	-55		+85	°C

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

Outline Drawing:

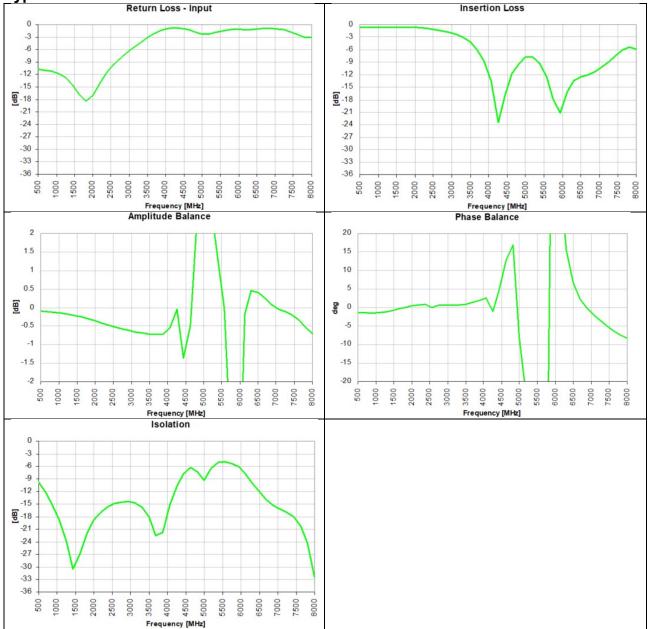


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Typical Broadband Performance: 500 MHz. to 8.0 GHz.

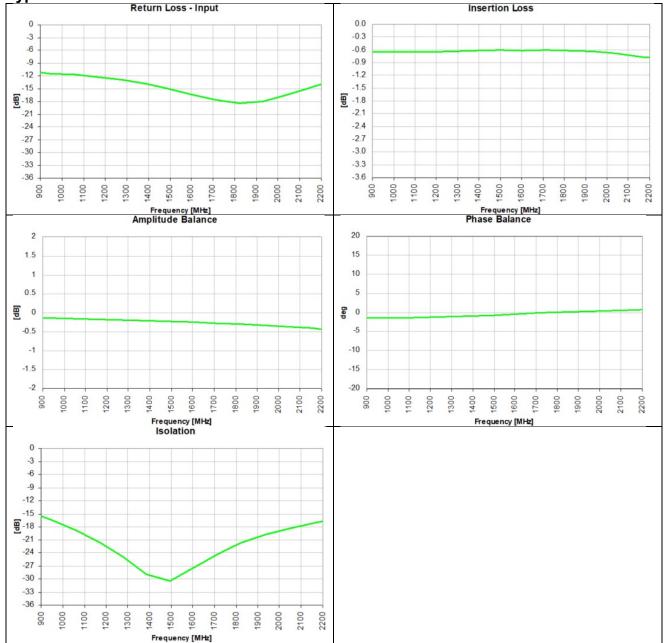


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Typical Performance: 900 MHz. to 2200 MHz.



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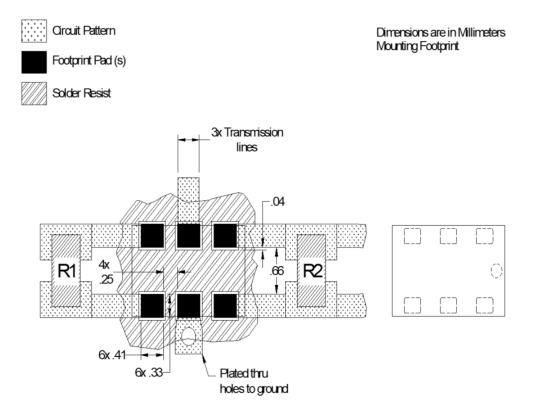
Mounting Configuration:

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.

All of the Xinger components are constructed from organic PTFE based composites which possess excellent electrical and mechanical stability. Xinger components are compliant to a variety of ROHS and Green standards and ready for Pb-free soldering processes. Pads are Gold plated with a Nickel barrier.

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 PD0922J7575D2HF is a Wilkinson power divider, external 0402 150 Ω and 300 Ω resistors must be mounted in locations R1 and R2 respectively, as shown in the Figure below.

Pad Footprint w 0402 Resistor Locations:



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