

50 Ω to 50 Ω

Ultra Low Profile 0805 Power Divider

inger.



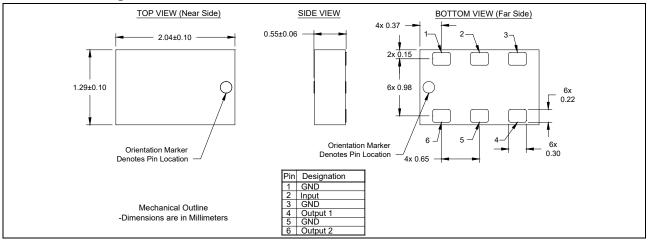
Description:

The PD0810J5050S2HF is a low profile, sub-miniature Wilkinson power divider in an easy to use surface mount package. The PD0810J5050S2HF is ideal for high volume manufacturing and delivers higher performances than traditional printed and lumped element solutions. The PD0810J5050S2HF 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: GSM, WCDMA, Home Cordless, and RFID. The PD0810J5050S2HF does not include the resistive element and therefore, requires an external resistor for operation. The PD0810J5050S2HF is available on tape and reel for high volume manufacturing pick and place.

Detailed Electrical Specifications:					
Features:		ROOM (25°C)			
• 800 – 100 MHz	Parameter	Min.	Тур.	Max	Unit
 21dB Isolation (output ports) 0.5mm Height Profile 50Ω Outputs/Inputs External resistors required 	Frequency	800		1000	MHz
	Input Port Impedance		50		Ω
	Output Port Impedance		50		Ω
Low Insertion Loss	Return Loss	14	19		dB
Surface Mountable	Insertion Loss*		0.5	0.6	dB
 Tape & Reel Non-conductive Surface RoHS Compliant Halogen Free 	Amplitude Balance		0.3	0.8	dB
	Phase Balance		1	4	Degrees
	Isolation (Output Ports)	17	21		dB
	Power Handling @85ºC			2	Watts
	Operating Temperature	-55		+85	°C
* Insertion Loss stated at room temperature (Insertion Loss is approximately 0.1 dB higher at +85 °C)					

Insertion Loss stated at room temperature (Insertion Loss is approximately 0.1 dB higher at +85 °C) **Specification subject to change without notice

Outline Drawing:



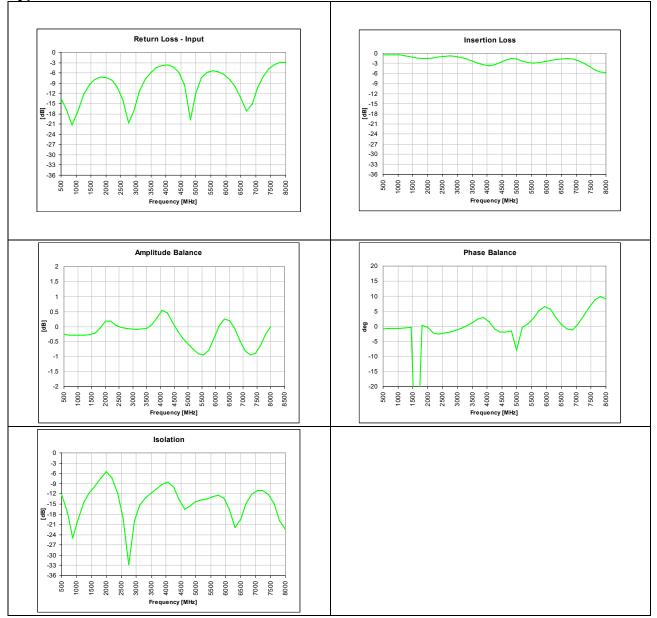
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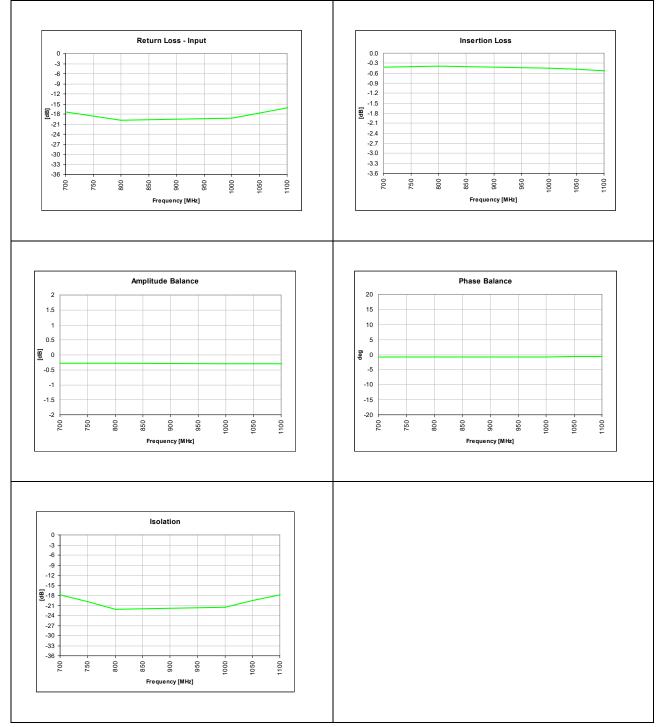
Typical Broadband Performance: 500 MHz. to 8.0 GHz.



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Typical Performance: 700 MHz. to 1100 MHz.



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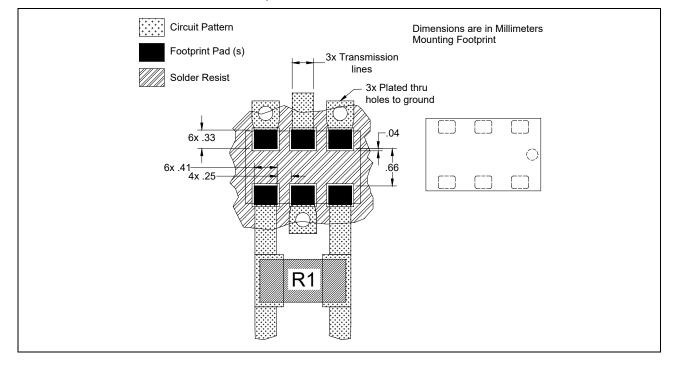


Mounting Configuration:

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 PD0810J5050S2HF 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.



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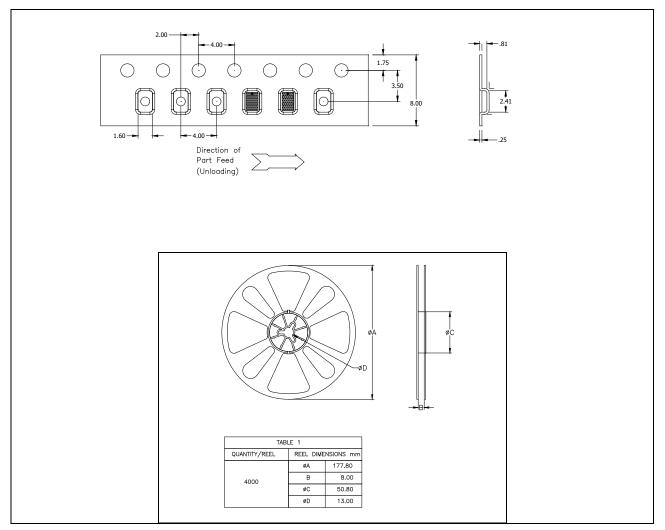
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Packaging and Ordering Information:

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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