



Ultra Low Profile 0805 Power Divider 50Ω to 50Ω

Description:

The PD6080J5050S2HF is a low profile, sub-miniature Wilkinson power divider in an easy to use surface mount package. The PD6080J5050S2HF is ideal for high volume manufacturing and delivers higher performances than traditional printed and lumped element solutions. The PD6080J5050S2HF 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: RFID, fixed satellite, and mobile satellite. The PD6080J5050S2HF does not include the resistive element and therefore, requires an external resistor for operation. The PD6080J5050S2HF is available on tape and reel for high volume manufacturing pick and place.

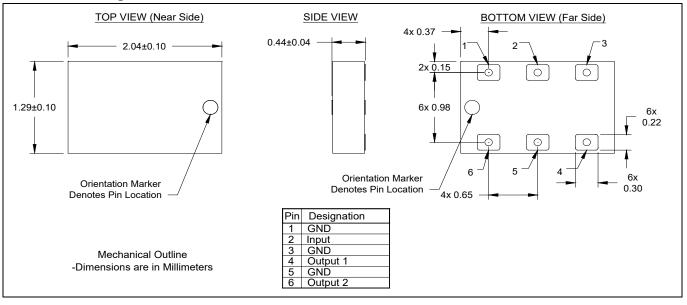
Detailed Electrical Specifications:

Specifications subject to change without notice.

Features:		ROOM (25°C)			
• 6000 – 8000 MHz	Parameter	Min.	Тур.	Max	Unit
15dB Isolation (output ports)	Frequency	6000		8000	MHz
 Good Return Loss 0.5mm Height Profile 	Input Port Impedance		50		Ω
 50Ω Outputs/Inputs 	Output Port Impedance		50		Ω
Low Insertion Loss	Return Loss	9	12		dB
Surface Mountable	Insertion Loss*		0.6	0.9	dB
 Tape & Reel Non-conductive Surface 	Amplitude Balance		0.2	0.5	dB
 RoHS Compliant 	Phase Balance		2	5	Degrees
Halogen Free	Isolation (Output Ports)	12	15		dB
	Power Handling @85°C			2	Watts
	Operating Temperature	-55		+105	°C

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

Outline Drawing:

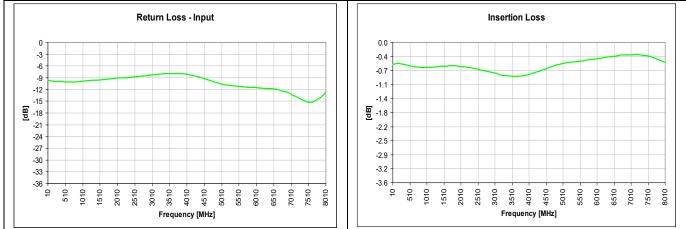


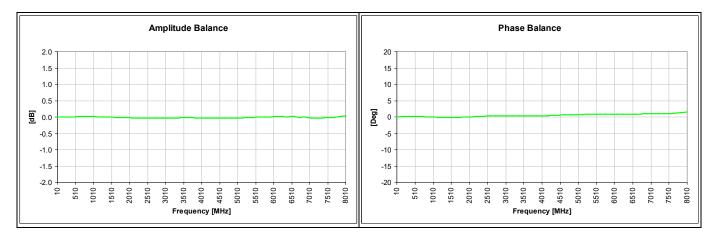
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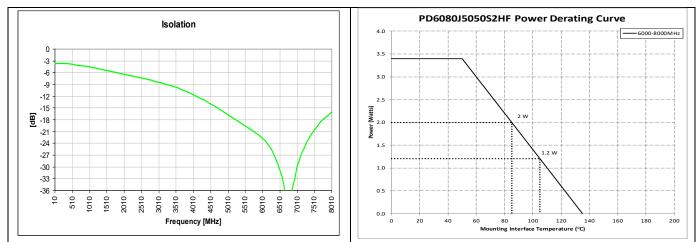
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Typical Performance: 10 MHz. to 8.01 GHz.





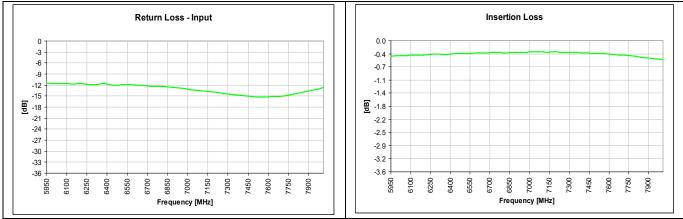


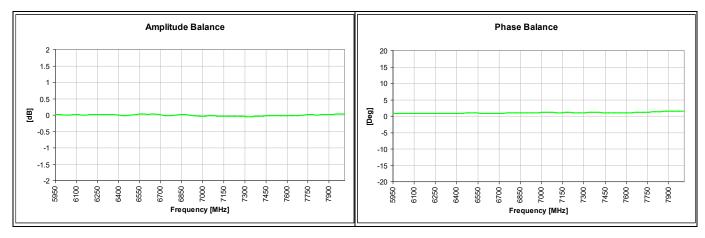
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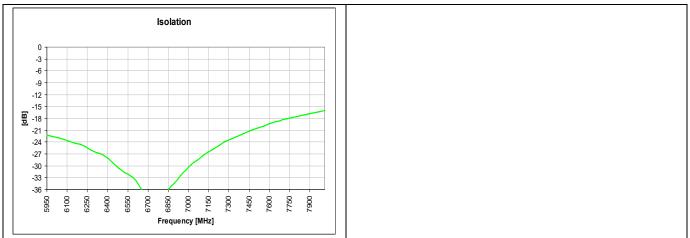
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Wide Band Performance: 5950 MHz. to 8010 MHz.







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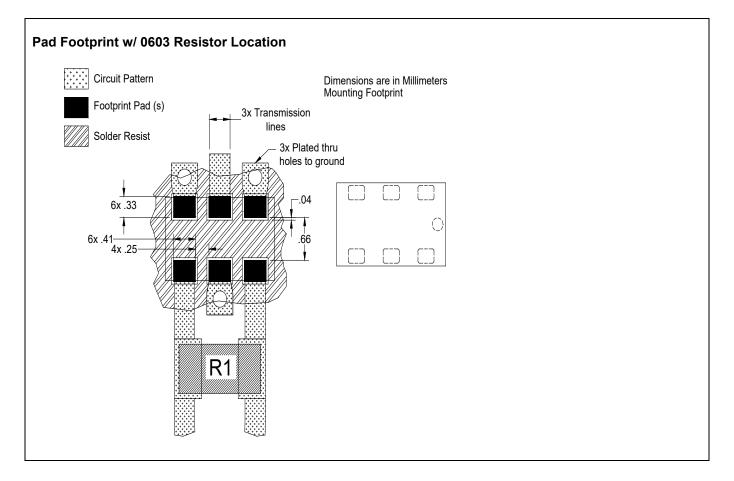


Mounting Configuration:

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 PD6080J5050S2HF 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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