

Description

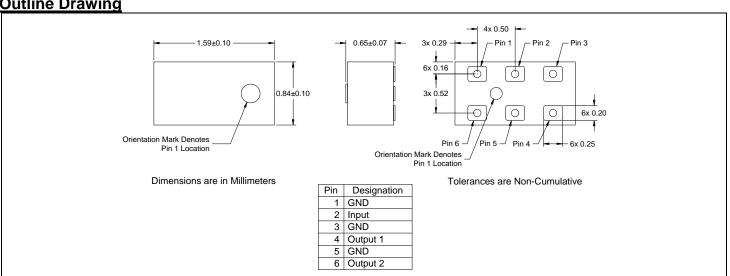
The PD4859L5050S2HF is a low profile, sub-miniature Wilkinson power divider in an easy to use surface mount package. The PD4859L5050S2HF is ideal for high volume manufacturing and delivers higher performances than traditional printed and lumped element solutions. The PD4859L5050S2HF is matched to 50 Ω and has a height profile of 65mm, which is ideal for high-level integrations in the following markets: 5G, LTE. The PD4859L5050S2HF does not include the resistive element and therefore, requires an external resistor for operation. The PD4859L5050S2HF is available on tape and reel for high volume manufacturing pick and place.

Detailed Electrical Specifications: Specifications subject to change without notice.

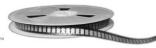
				ROOM (25°C)						
Parameter	Min.	Тур.	Max	Min.	Тур.	Max	Min.	Тур.	Max	Unit
Frequency	3000		6000	3900		4100	4600		5200	MHz
Input Port Impedance		50			50			50		Ω
Output Port Impedance		50			50			50		Ω
Return Loss	10	10.5		11	13		14	15		dB
Insertion Loss*		0.6	0.7		0.4	0.6		0.4	0.5	dB
Amplitude Balance		0.05	0.3		0.06	0.2		0.05	0.2	dB
Phase Balance		0.7	2		0.5	2.2		0.7	2	Degrees
Isolation (Output Ports)	9	10		13	15		19	20		dB
Power Handling @85C			2			2			2	Watts
Operating Temperature	-55		+140	-55		+140	-55		+140	℃

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

Outline Drawing



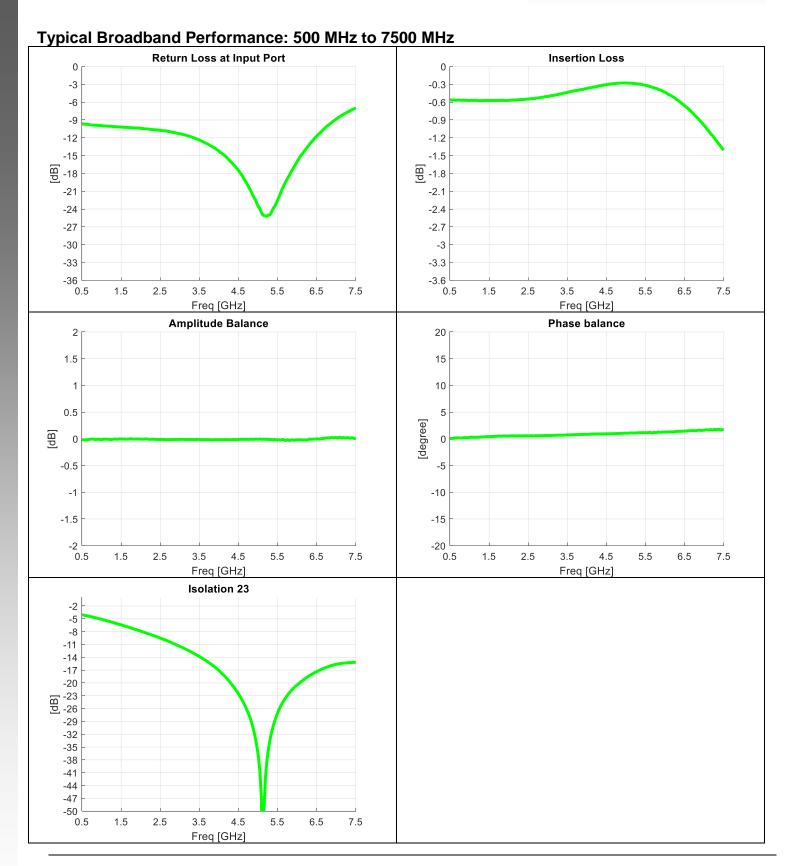




Available on Tape and Reel for Pick and Place Manufacturing.

USA/Canada: (315) 233-5510 Toll Free: (833) 389-6402 Europe: +44 2392-232392 Asia: +86 512 62749282 RevB



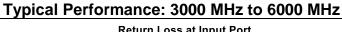


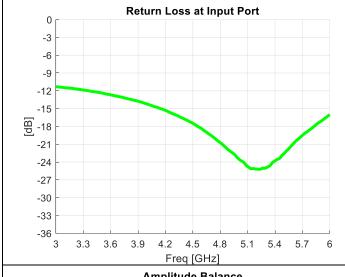
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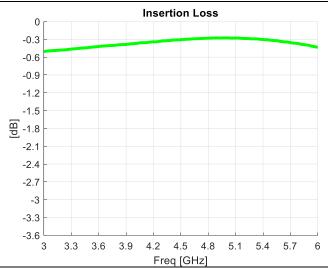
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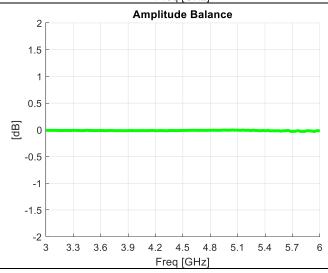


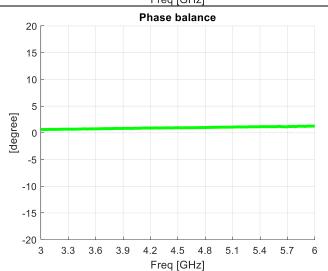


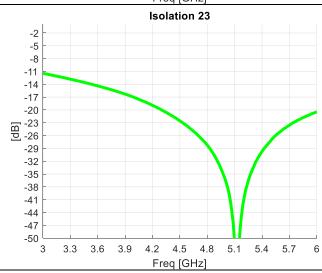














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Model PD4859L5050S2HF

RevB



Mounting Configuration:

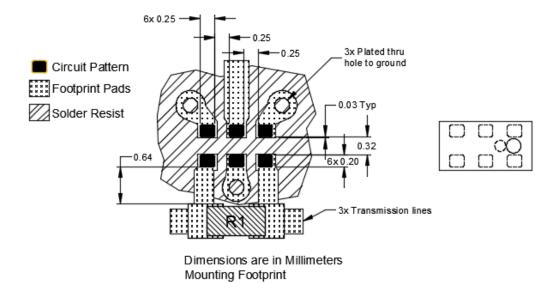
In order for Xinger surface mount components to work optimally, the proper impedance transmission lines must be used to connect to the RF ports. If this condition is not satisfied, insertion loss, Isolation and VSWR may not meet published specifications.

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 PD2635L050S2HF is a Wilkinson power divider, an external $0603\ 100\Omega$ resistor must be mounted in locations R1 as shown in the Figure below.

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.

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.

Pad Footprint w/ 0402 Resistor Location









Packaging and Ordering Information

Parts are available in reel and are packaged per EIA 481-D. Parts are oriented in tape and reel as shown below. Minimum order quantities are 4000 per reel.

