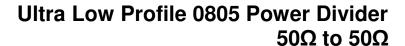
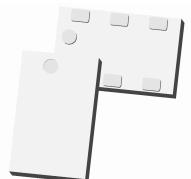
**BOOM (25°C)** 









#### **Description**

The PD2328J5050S2HF is a low profile, sub-miniature Wilkinson power divider in an easy to use surface mount package. The PD2328J5050S2HF is ideal for high volume manufacturing and delivers higher performances than traditional printed and lumped element solutions. The PD2328J5050S2HF is matched to 50  $\Omega$  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 PD2328J5050S2HF does not include the resistive element and therefore, requires an external resistor for operation. The PD2328J5050S2HF is available on tape and reel for high volume manufacturing pick and place.

-55

**Detailed Electrical Specifications:** Specifications subject to change without notice.

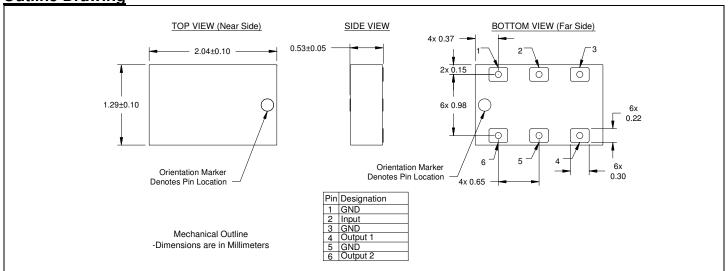
	1100W (25 0)			
Parameter	Min.	Тур.	Max	Unit
Frequency	2300		2800	MHz
Input Port Impedance		50		Ω
·		50		Ω
· ·	15			dB
	13		0.5	dB
				<u> </u>
•		0.1		dB
		1	2	Degrees
, , ,	17	21		dB
Power Handling @85C			2	Watts
		Parameter Min.  Frequency 2300 Input Port Impedance Output Port Impedance Return Loss 15 Insertion Loss* Amplitude Balance Phase Balance Isolation (Output Ports) 17	Parameter         Min.         Typ.           Frequency         2300           Input Port Impedance         50           Output Port Impedance         50           Return Loss         15         19           Insertion Loss*         0.3           Amplitude Balance         0.1           Phase Balance         1           Isolation (Output Ports)         17         21	Parameter         Min.         Typ.         Max           Frequency         2300         2800           Input Port Impedance         50         50           Output Port Impedance         50         15           Return Loss         15         19           Insertion Loss*         0.3         0.5           Amplitude Balance         0.1         0.3           Phase Balance         1         2           Isolation (Output Ports)         17         21

<sup>\*</sup> Insertion Loss stated at room temperature (Insertion Loss is approximately 0.1 dB higher at +85 °C)

**Operating Temperature** 

# **Outline Drawing**

Halogen Free





Visit us at www.anaren.com

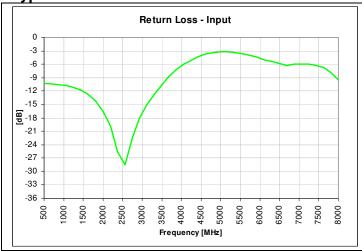
USA/Canada: (315) 432-8909 Toll Free: (800) 411-6596 Europe: +44 2392-232392 Asia: +86 512-62749282

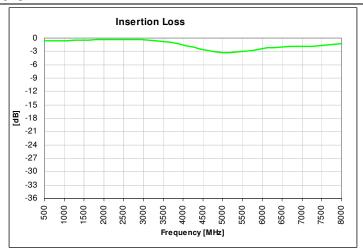
+95

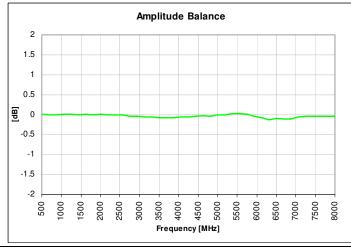
<sup>o</sup>C

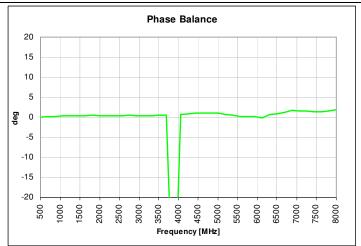


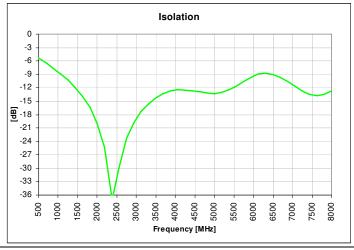
# Typical Broadband Performance: 500 MHz. to 8.0 GHz.













Visit us at www.anaren.com

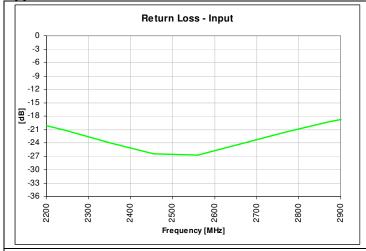
USA/Canada: (315) 432-8909 Toll Free: (800) 411-6596 Europe: +44 2392-232392 Asia: +86 512-62749282

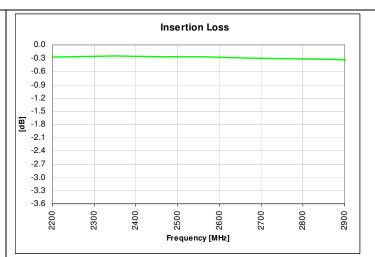


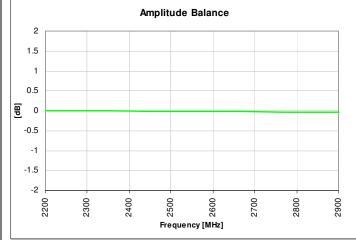


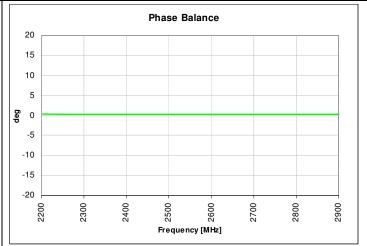


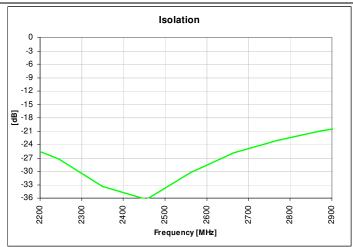
### Typical Performance: 2200 MHz. to 2900 MHz.

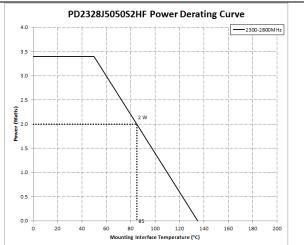














Visit us at www.anaren.com

USA/Canada: (315) 432-8909 Toll Free: (800) 411-6596 Europe: +44 2392-232392 Asia: +86 512-62749282





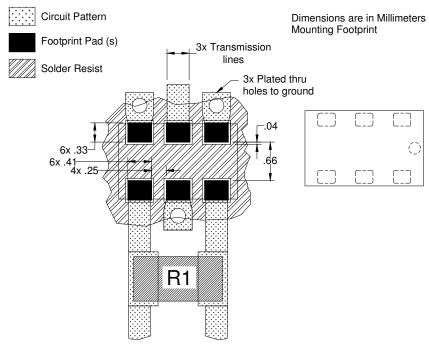
# Mounting Configuration:

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 PD2328J5050S2 is a Wilkinson power divider, an external  $0603\ 100\Omega$  resistor must be mounted in locations R1 as shown in the Figure below.

#### Pad Footprint w/ 0603 Resistor Locations





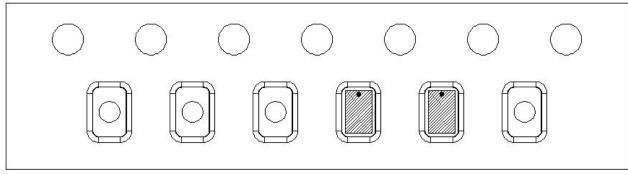
USA/Canada: (315) 432-8909 Toll Free: Europe:

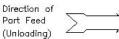
(800) 411-6596 +44 2392-232392 +86 512-62749282 Asia:

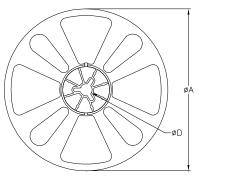


### **Packaging and Ordering Information**

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.







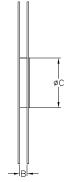


TABLE 1				
QUANTITY/REEL	REEL DIMENSIONS mm			
4000	ØΑ	177.80		
	В	8.00		
	øС	50.80		
	ØD	13.00		

USA/Canada: (315) 432-8909 Toll Free: (800) 411-6596 Europe: +44 2392-232392 Asia: +86 512-62749282