

# Xinger®



## Directional Couplers 6 dB

### Description

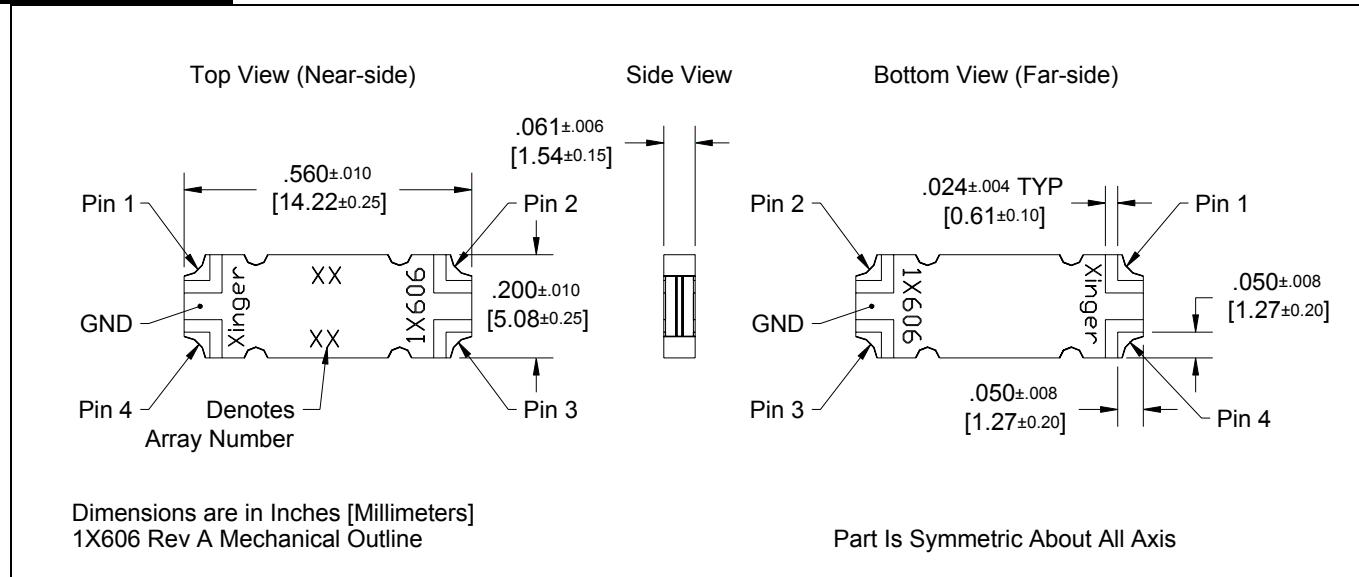
The 1X606 is a low profile 6dB directional coupler in an easy to use miniature surface mount package for MMDS and WLAN applications. The 1X606 is ideal for inline split/combine amplifiers and for power injection and can be used in most high power designs. Parts have been subjected to rigorous qualification testing and units are 100% tested. They are manufactured using materials with x and y thermal expansion coefficients compatible with common substrates such as FR4, G-10 and polyamide.

### ELECTRICAL SPECIFICATIONS\*\*

Frequency	Mean Coupling	Insertion Loss	VSWR	Freq. Sensitivity
GHz	dB	dB Max	Max:1	dB Max
2.3 – 2.6	6.0 ± 0.5	0.25	1.20	±0.30
Directivity	Power Handling	ΘJC	Operating Temp.	
dB Min	Watts	°C / Watt	°C	
20	45	16.7	-55 to +85	

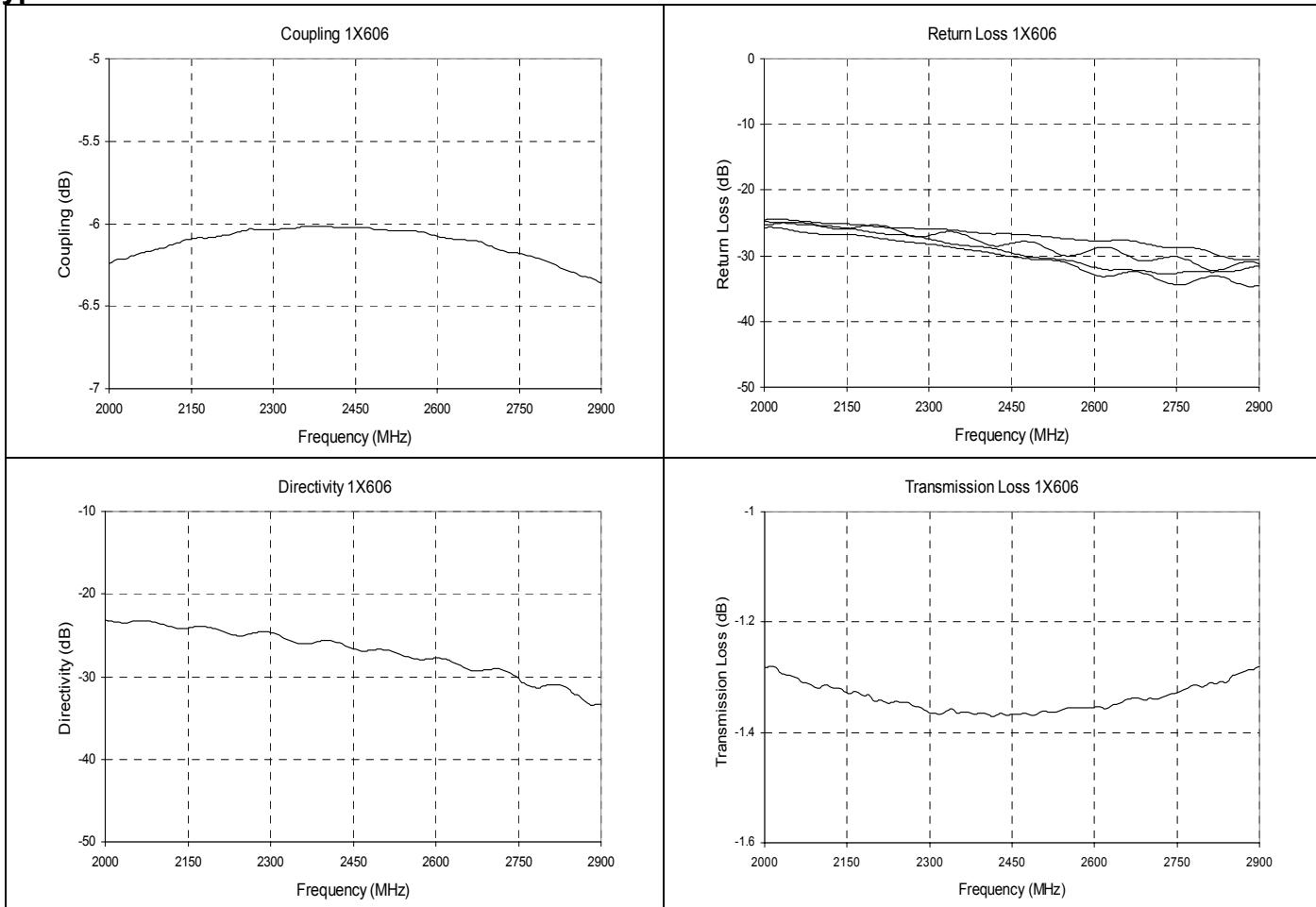
\*\*Specification based on performance of unit properly installed on microstrip printed circuit boards with 50 Ω nominal impedance. Specifications subject to change without notice.

### Outline Drawing

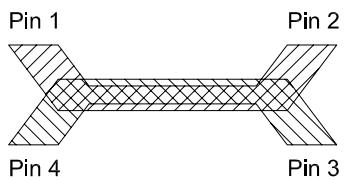


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## Typical Performance: 2.0 GHz. to 2.9 GHz.



## Pin Configuration

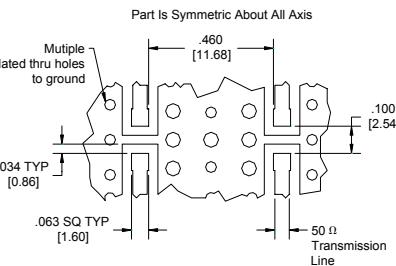
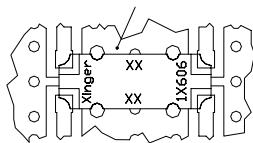


Directional Coupler Pin Configuration

	Pin 1	Pin 2	Pin 3	Pin 4
Configuration #1	Input	Output	Isolated	Coupled
Configuration #2	Output	Input	Coupled	Isolated
Configuration #3	Isolated	Coupled	Input	Output
Configuration #4	Coupled	Isolated	Output	Input

## Mounting Footprint

To ensure proper electrical and thermal performance there must be a ground plane with 100% solder connection underneath the part



Dimensions are in Inches [Millimeters]  
1X605 Rev A Mounting Footprint

USA/Canada: (315) 432-8909  
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Available on Tape and  
Reel For Pick and Place  
Manufacturing.



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