

Hybrid Couplers 3 dB, 90°



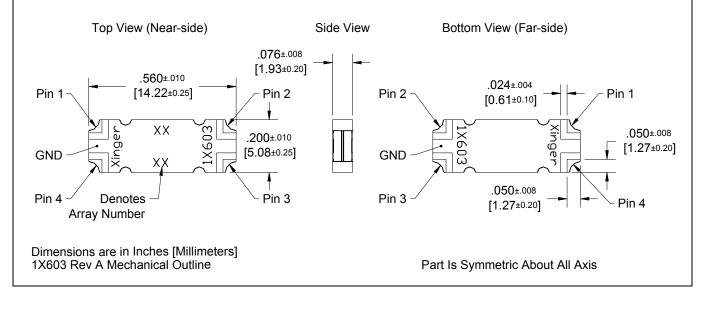
Description

The 1X603 is a low profile, miniature 3dB hybrid coupler in an easy to use surface mount package for ISM and wireless LAN applications. The 1X603 is designed for balanced amplifiers and signal distribution and is an ideal solution for the ever increasing demands of the wireless industry for smaller printed circuit boards. 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	Isolation	Insertion Loss	VSWR	
GHz	dB Min	dB Max	Max:1	
2.3 – 2.7	22	0.20	1.18	
Amplitude Balance	Phase Balance	Power	ΘJC	Operating Temp.
dB Max	Degrees	Ave. CW Watts	°C/Watt	°C
± 0.20	± 3	60	27.8	-55 to +85
	GHz 2.3 – 2.7 Amplitude Balance dB Max	FrequencyIsolationGHzdB Min2.3 - 2.722Amplitude Balance dB MaxPhase BalanceDegrees	FrequencyIsolationInsertion LossGHzdB MindB Max2.3 - 2.7220.20Amplitude Balance dB MaxPhase BalancePower Ave. CW Watts	FrequencyIsolationInsertion LossVSWRGHzdB MindB MaxMax:12.3 - 2.7220.201.18Amplitude BalancePhase BalancePower Max:2OJCdB MaxDegreesAve. CW Watts°C/Watt

**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

Features





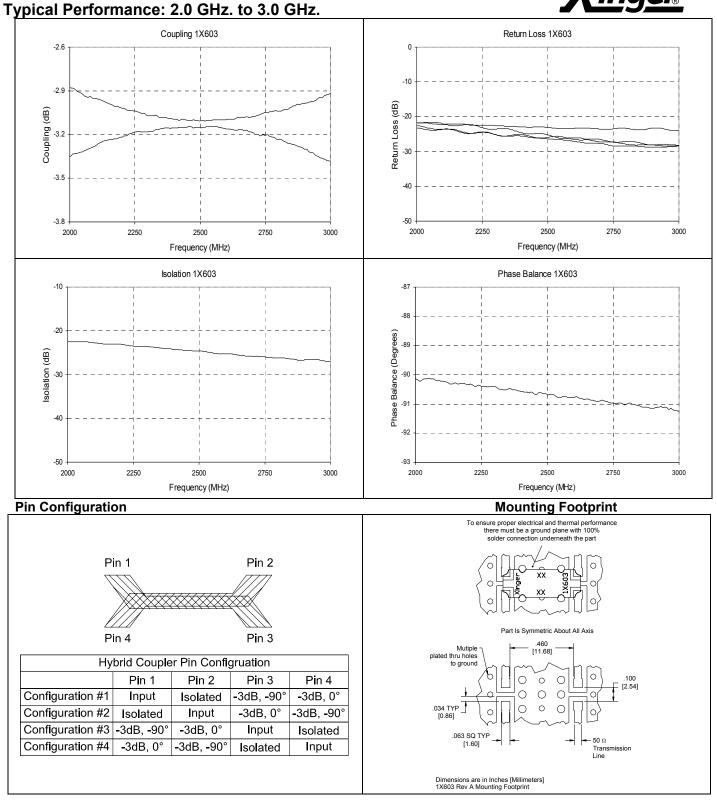
Available on Tape and Reel For Pick and Place Manufacturing.

USA/Canada: (315) 432-8909 Toll Free: (800) 544-2414 +44 2392-232392 Europe:

This datasheet has been downloaded from http://www.digchip.com at this page



Xinger.



USA/Canada: Toll Free: Europe: (315) 432-8909 (800) 544-2414 +44 2392-232392

Available on Tape and Reel For Pick and Place Manufacturing.

