

Xinger®

Hybrid Couplers 3 dB, 90°



Description

The JP503AS is a low profile, high performance 3dB hybrid coupler in an easy to use, manufacturing friendly surface mount package. It is designed for W-CDMA and other 3G applications. The JP503AS is designed for balanced amplifiers, variable phase shifters and attenuators, LNAs, signal distribution and is an ideal solution for the ever-increasing demands of the wireless industry for smaller printed circuit boards and high performance. Parts have been subjected to rigorous qualification testing and they are manufactured using materials with coefficients of thermal expansion (CTE) compatible with common substrates such as FR4, G-10, RF-35, RO4003 and polyimide. Produced with 6 of 6 RoHS compliant tin immersion finish.

Features:

- 2.0 – 2.3 GHz.
- 3G Frequencies
- Low Loss
- High Isolation
- 90° Quadrature
- Surface Mountable
- Tape And Reel
- Lead Free
- 100% Tested

ELECTRICAL SPECIFICATIONS**

Frequency	Isolation	Insertion Loss	VSWR	Operating Temp.
GHz	dB Min	dB Max	Max:1	
2.0 – 2.3	20	0.30	1.20	
Amplitude Balance	Phase Balance	Power	⊙JC	°C
dB Max	Degrees	Ave. CW Watts	°C/Watt	
± 0.25	± 3	25	27.5	-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

