



Hybrid Couplers 3 dB, 90°

+44 2392-232392

Europe:



Description

The 1A1305-3 is a low profile 3dB hybrid coupler in an easy to use surface mount package covering the entire DCS and PCS bands. The 1A1305-3 is ideal for balanced amplifiers and signal distribution 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**

| Features: • 1.5 – 2.2 GHz | Frequency | Isolation | Insertion Loss | VSWR | | |
|---|----------------------|------------------|-------------------|---------|--------------------|--|
| Low Loss | MHz | dB Min | dB Max | Max:1 | | |
| High Isolation | 1.7 – 2.0 | 23 | 0.23 | 1.18 | | |
| 90° Quadrature | 1.5 – 2.2 | 20 | 0.25 | 1.20 | | |
| Surface MountableTape And Reel | Amplitude Balance | Phase Balance | Power | ΘJC | Operating Temp. | |
| Convenient Package100% Tested | dB Max | Degrees | Ave. CW Watts | °C/Watt | °C | |
| | ± 0.30 | ± 3 | 100 | 14.6 | -55 to +85 | |
| | ± 0.40 | ± 3 | 100 | 14.6 | -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

What'll we think of next



Place Manufacturing.



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.

