

High Power Miniature Hybrid 3dB 90° Couplers



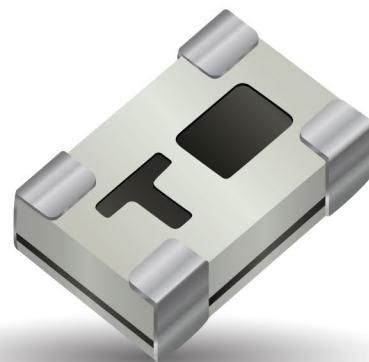
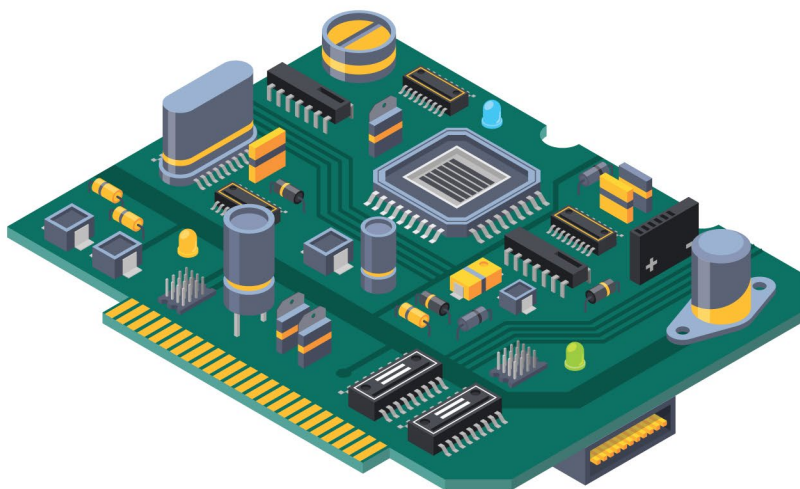
PART DESCRIPTION

Also known as a 3dB Hybrid, or hybrid coupler, this 4-port RF device splits an input signal into two equal amplitude outputs whose phases are shifted by 90°.

KYOCERA AVX Thin Film 3dB Hybrid couplers provide a miniature part with excellent high-frequency performance in a variety of frequency bands compatible with various types of applications such as RF balanced amplifiers and signal distribution.

This component is widely used in Heavy Duty Radios and in Precision GPS Systems, among other applications.

Improve your design and reduce PCB size



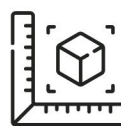
TYPICAL APPLICATIONS



COMMUNICATION



BASE STATION



INSTRUMENTATION



AUTOMOTIVE

Hybrid 3dB 90° Couplers

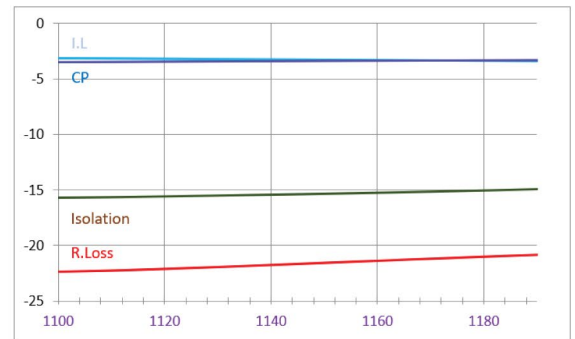
KEY FEATURES

- » Sizes: 0603 / 0805 (0402 will be launched soon)
- » Wide Operating Frequency: 800MHz – 6GHz
- » Power Handling up to 10W continues
- » Low Insertion Loss 0.2dB
- » Excellent amplitude and phase balance
- » High Repeatability Part-to-Part and Lot-to-Lot
- » Temperature Stability
- » Low Profile

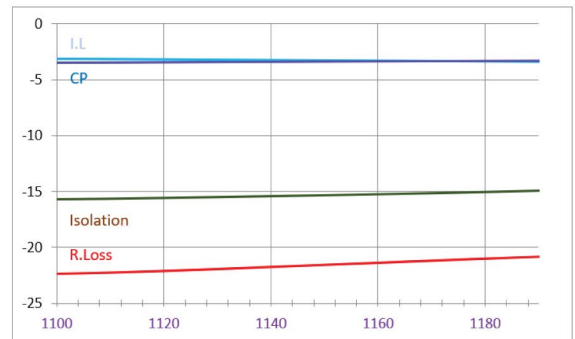
BENEFITS

- » Excellent amplitude and Phase balance control
- » High Power Handling
- » Linearity Improvement
- » Cost reduction
- » PCB size reduction

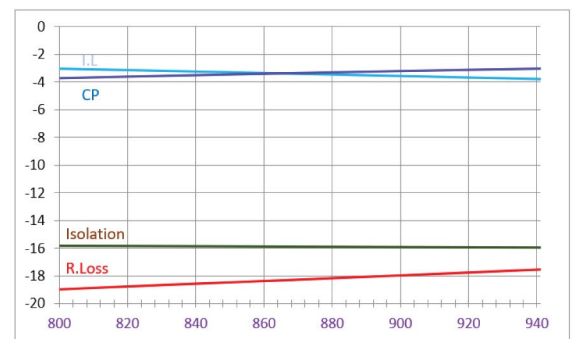
DB0805A1376ASTR
Wide band GPS (L1&L5)



DB0805A0870ASTR
Heavy Duty Radio



DB0805A1176ASTR
Single band GPS (L1)



AVX THIN FILM PRODUCTS

- » [Accu-P Tight Tolerance Capacitors](#)
- » [Accu-L Tight Tolerance Capacitors](#)
- » [High Directivity Couplers](#)
- » [Wide Band Couplers](#)
- » [Band Pass Filters](#)
- » [Low Pass Filters](#)
- » [Low Current Fuses](#)