



Narrow Band High Isolation 3dB Low PIM Hybrid 4-Port Coupler

AMA-1248-3HYB-716-HIO (1725-1850 MHz)

AMA-1249-3HYB-716-HIO (890-960 MHz)



Description

AMA-1248 and AMA-1249 series 3dB Hybrid couplers are designed for low PIM, high isolation, high performance mobile phone network applications. A typical 38-40dB isolation can be achieved for each coupler when terminated by Rojone's cable load (AMA-5257 series) and perfectly matched with the network.

AMA-1248 is for 1725-1850MHz band applications, while AMA-1249 is for 890-960MHz band applications. They are designed for low intermodulation operation, and are RoHS compliant.

Custom frequency bands are available on request. Please contact sales@rojone.com.au with your specifications.

Specifications

General Specifications

Frequency Range	1725-1850 MHz (AMA-1248) 890-960 MHz (AMA-1249)
Coupler Type	4 Port Directional
Power Handling	200W cw (@25°C), 500W peak
Coupling Value	3 dB
Return Loss	< -30 dB
Isolation	38-40 dB (typical)*
AMP Balance	< 0.5 dB (< 0.3 dB typical)
PIM	< -150 dBc @ 43 dBm x2 -155 dBc to -165 dBc (typical)
Through Loss	3.5 dB maximum (3.2 dB typical)
Op. Temperature	-40°C to +65°C
RF Connector	DIN 716 Female
Humidity	< 99%, no condensation
Weight	820g

** Note: Coupler is terminated with RF Load which has return loss <- 35dB to achieve isolation 38-40dB.*



Test Results (Typical Isolation)

