

QUAD HYBRID - QHD-2Z-2.45G

TECHNICAL FEATURE

FEATURES

- 2.3 - 2.7 GHz
- High Power - 25 Watts CW
- Low Loss
- Low VSWR
- Surface Mount
- Tape & Reel



PERFORMANCE

Frequency Range.....	2.3 - 2.7 GHz
Isolation.....	20 dB min.
Insertion Loss.....	0.35 dB max.
VSWR.....	1.35:1 max.
Amplitude Balance.....	±0.3 dB max.
Phase Balance.....	90 ± 3° max.
Input Power.....	25 watts max.
Size.....	0.175 x 0.175 x 0.086 inches
Weight.....	0.003 oz.
RF Interface.....	Surface mount
Operating Temperature Range.....	-55 to +85°C

DESCRIPTION

The Multi-Mix PICO® QHD series provides a 3 dB, quadrature coupler with low insertion loss, high isolation, and high power handling in a small outline. Accurate phase and amplitude balance make them ideal for applications involving IQ networks, power amplifiers, signal distribution and processing.

The QHD series is an easy to install SMD designed specifically for the full spectrum of wireless applications. The high stability ceramic filled PTFE dielectrics utilized in these components are compatible with common substrates such as FR-4, G-10, and polyamide. The wrap around ground plane provides excellent EM shielding.

Applications:

- WiFi
- Wireless lans
- Point to point radio
- RFID

PACKAGE OUTLINE / TAPE & REEL ORIENTATION

NOTES:
1. ALL DIMENSIONS ARE IN INCHES.
2. TOLERANCES: -3 PLACE DECIMALS; ±.005.

DIRECTION OF FEED →

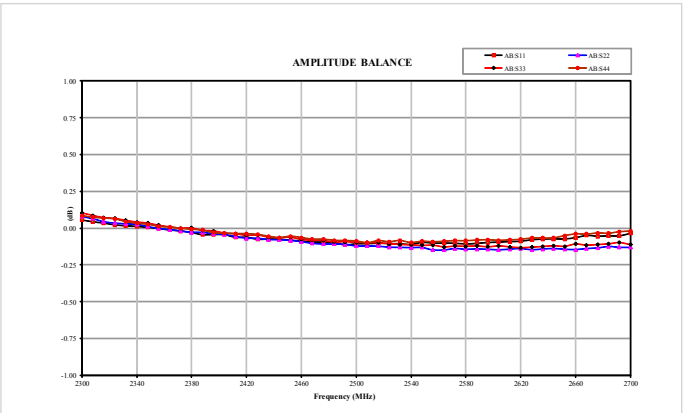
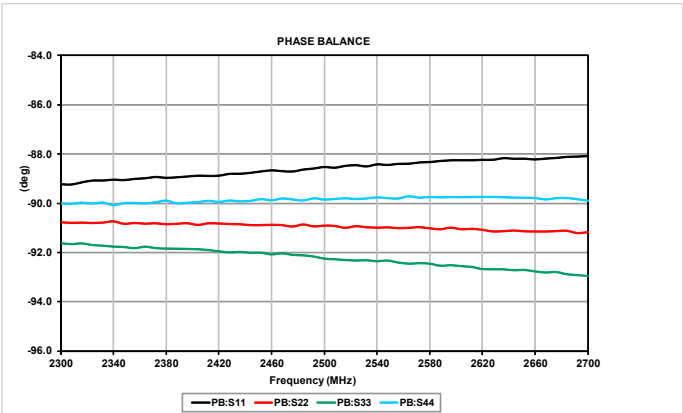
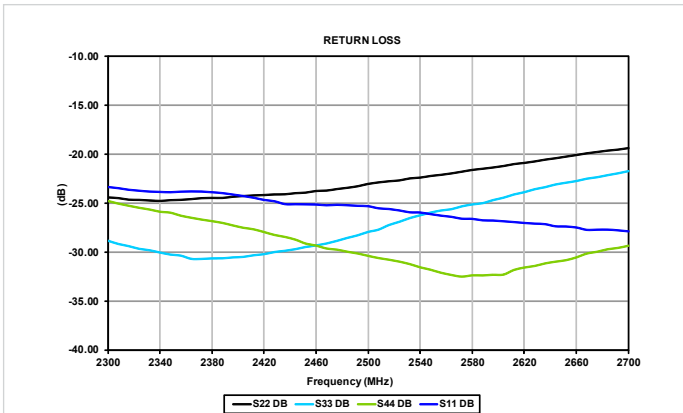
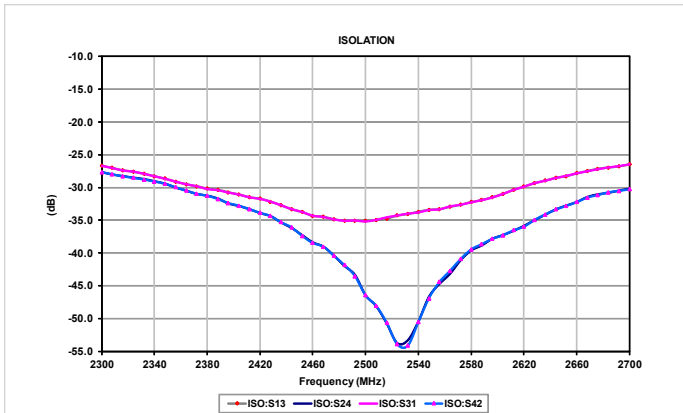
MARKED SIDE UP

SECTION "A"-A"

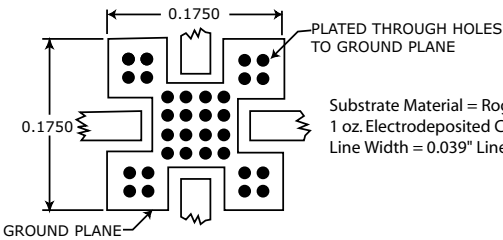
	W	P ₁	P ₀	A ₀	B ₀	K ₀
ENGLISH (in)	0.4724	0.3150	0.1575	0.1949	0.1988	0.1083
METRIC (mm)	12.00	8.00	4.00	4.95	5.05	2.75

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PERFORMANCE DATA



MOUNTING GUIDELINES



Substrate Material = Rogers RO4003; 0.020" Thickness;
 1 oz. Electrodeposited Copper Feed Transmission Lines = Grounded CPW;
 Line Width = 0.039" Line-Ground Spacing = 0.015"

TRUTH TABLE

	1	2	3	4
1	In	0	Isolated	-90
2	0	In	-90	Isolated
3	Isolated	-90	In	0
4	-90	Isolated	0	In