

QUAD HYBRID - QHD-2BH-0.45G

TECHNICAL FEATURE

FEATURES

- 380 - 520 MHz
- High Isolation
- Low Loss
- Excellent Phase / Amplitude Balance
- Surface Mount



PERFORMANCE

Frequency Range.....	380 - 520 MHz
Isolation	28 dB min.
Insertion Loss	0.20 dB max.
VSWR.....	1.15:1 max.
Amplitude Balance	± 0.20 dB max.
Phase Balance	$90 \pm 2^\circ$ max.
Input Power	200 watts max.
RF Interface.....	Surface mount
Operating Temperature Range	-55 to +85°C

DESCRIPTION

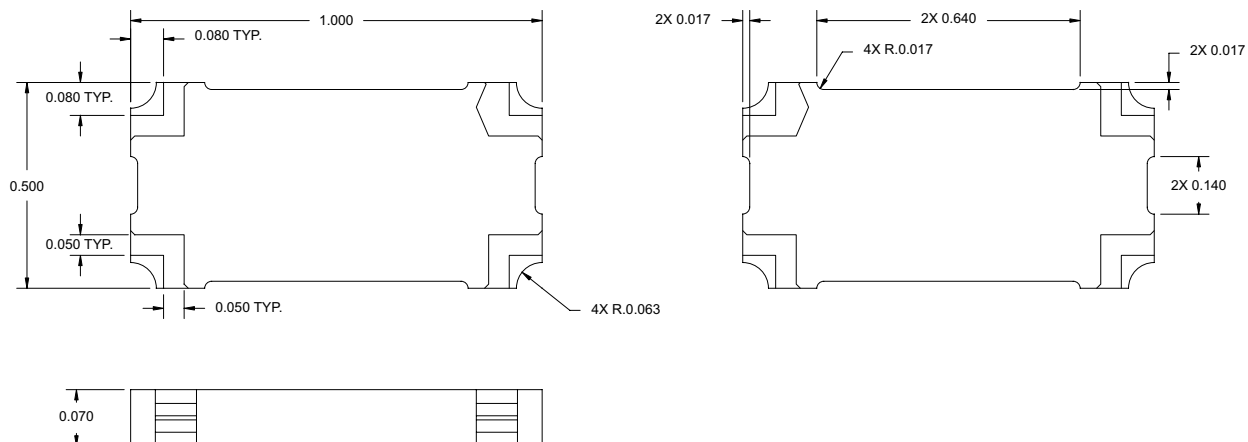
The QHD-2BH-0.45G series is a member of the Multi-Mix® QHD family of 3-dB 90° couplers for use in the 380-520 MHz range. The QHD-2BH-0.45G exhibits low insertion loss, low VSWR, and high isolation. Excellent phase and amplitude balance and high RF power handling capability make this series ideal for use in base station power amplifiers in particular and radio transceivers, receiver/antenna multicouplers and RF signal distribution and processing equipment in general.

The construction of QHD quad hybrids is based on fusion bonded multiplayer stripline structures. The fusion bonding process yields homogeneous monolithic dielectric structures with reliability, ruggedness, and electrical and thermal performance that are superior to conventional adhesive bonding techniques

Applications:

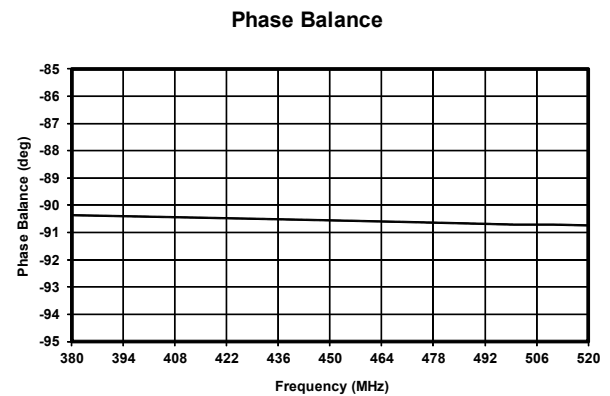
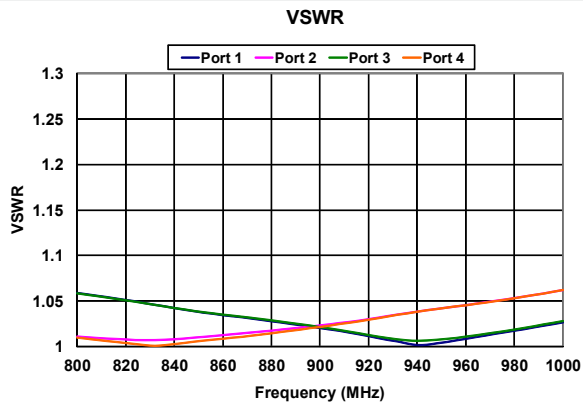
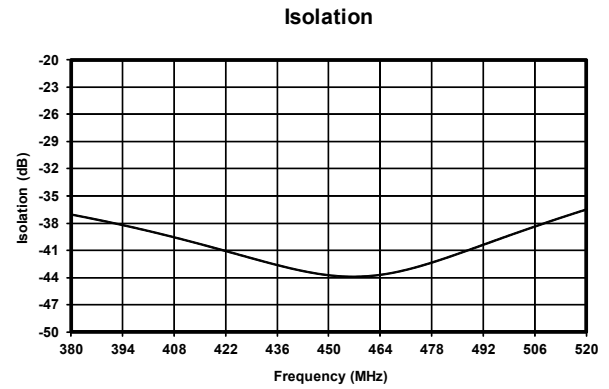
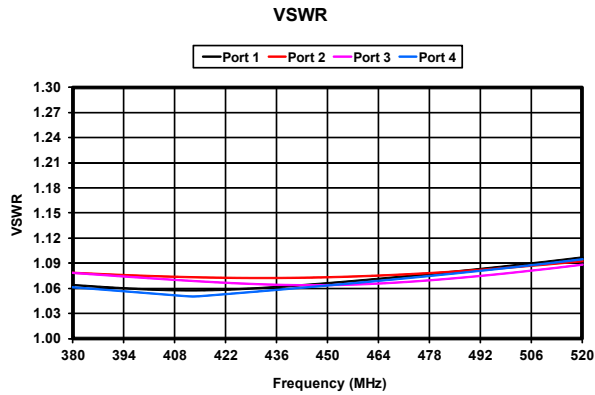
- CDMA 450 base station power amplifiers
- UHF land mobile radiobase station power amplifiers
- UHF radar (400-500 MHz)

PACKAGE OUTLINE

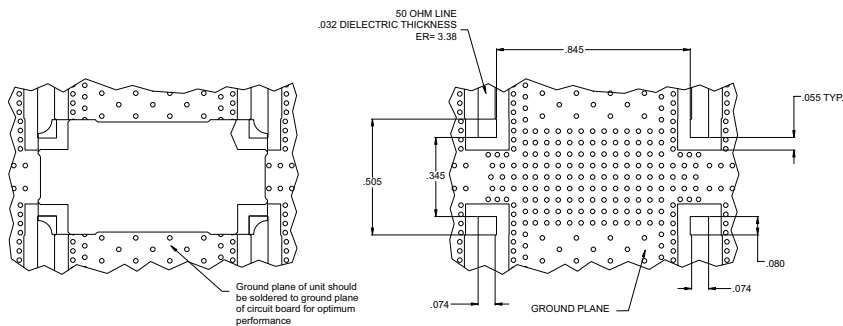


QUAD HYBRID - QHD-2BH-0.45G

PERFORMANCE DATA



MOUNTING GUIDELINES



TRUTH TABLE

	1	2	3	4
1	Input	Iso	-90°	0°
2	Iso	Input	0°	-90°
3	-90°	0°	Input	Iso
4	0°	-90°	Iso	Input

QUAD HYBRID - QHDZ-2BH-0.15G

TECHNICAL FEATURE

FEATURES

- 130 - 174 MHz
- High Isolation
- Low Loss
- Excellent Phase / Amplitude Balance
- High Power Handling
- Surface Mount



PERFORMANCE

Frequency Range	225 - 400 MHz
Isolation	20 dB min.
Insertion Loss	0.20 dB max.
VSWR	1.12:1 max.
Amplitude Balance	± 0.4 dB max.
Phase Balance	$90 \pm 3^\circ$ max.
Input Power	125 watts max.
RF Interface	Surface mount
Operating Temperature Range	-55 to +95°C

DESCRIPTION

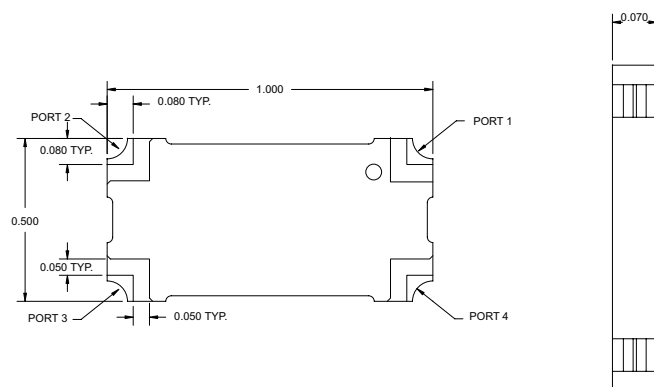
The QHDZ-2BH-0.15G series is a member of the Multi-Mix[®] Zapper[®] QHDZ family of 3-dB 90° couplers for use in the 130-174 MHz range. The QHDZ-2BH-0.15G exhibits low insertion loss, low VSWR, and high isolation. Excellent phase and amplitude balance and high RF power handling capability make this series ideal for use in base station power amplifiers in particular and radio transceivers, receiver/antenna multicouplers and RF signal distribution and processing equipment in general.

The construction of QHDZ quad hybrids is based on fusion bonded multiplayer stripline structures. The fusion bonding process yields homogeneous monolithic dielectric structures with reliability, ruggedness, and electrical and thermal performance that are superior to conventional adhesive bonding techniques.

Applications:

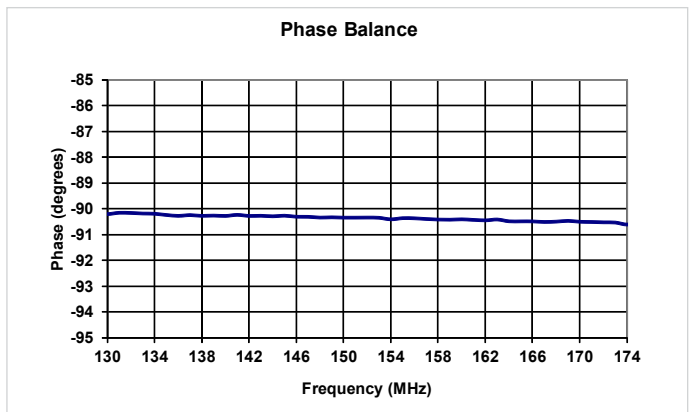
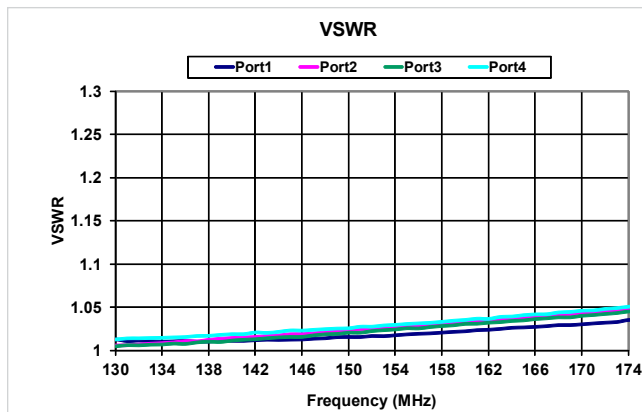
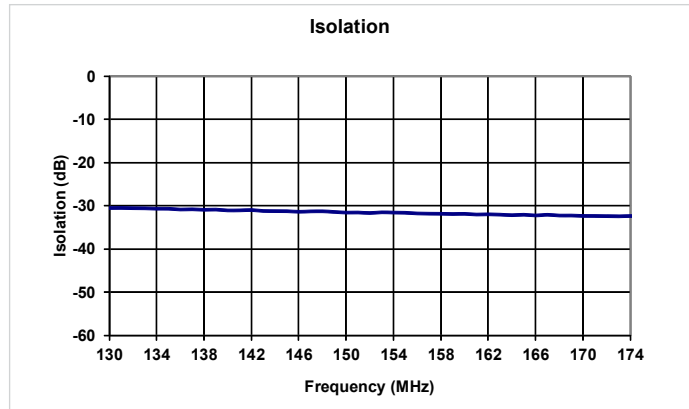
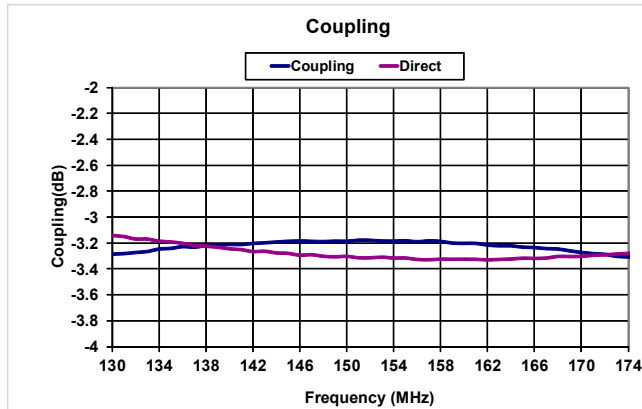
- VHF land mobile radio base station power amplifiers

PACKAGE OUTLINE

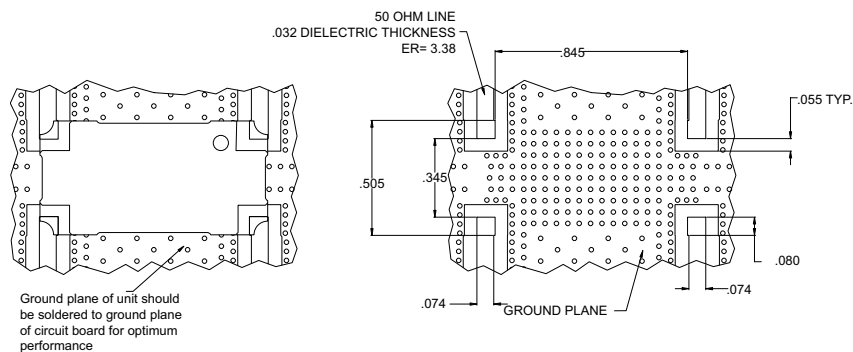


QUAD HYBRID - QHDZ-2BH-0.15G

PERFORMANCE DATA



MOUNTING GUIDELINES



TRUTH TABLE

	1	2	3	4
1	Input	Iso	-90°	0°
2	Iso	Input	0°	-90°
3	-90°	0°	Input	Iso
4	0°	-90°	Iso	Input

QUAD HYBRID - QHD-3C-10G

TECHNICAL FEATURE

FEATURES

- 2.0 - 18.0 GHz
- High Isolation
- Low Loss
- Excellent Phase / Amplitude Balance
- Co-planar launch
- Ni/Au finish



PERFORMANCE

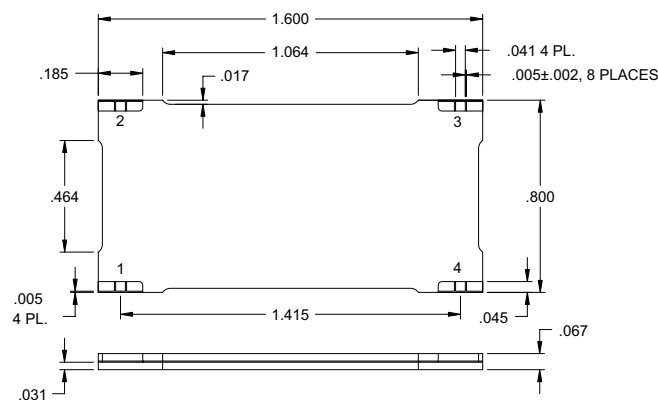
Frequency Range.....	2.0 - 18.0 GHz
Isolation	15 dB min.
Insertion Loss	2.0 dB max.
VSWR.....	1.5:1 max.
Amplitude Balance	± 1.0 dB max.
Phase Balance	$90 \pm 8^\circ$ max.
Input Power	30 watts typ.
RF Interface.....	Gold plated CPW launch
Operating Temperature Range	-55 to +85°C

DESCRIPTION

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

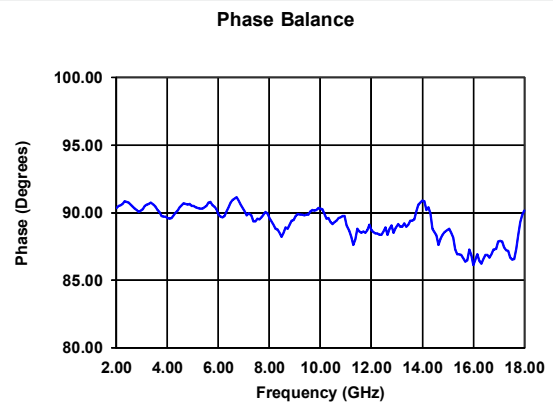
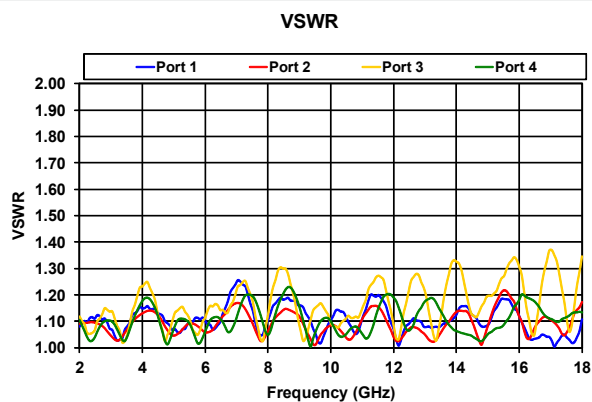
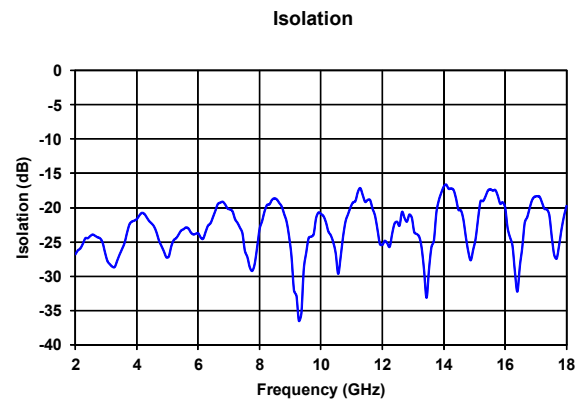
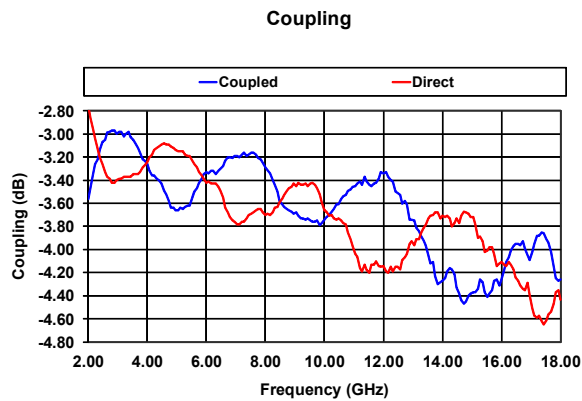
QHD quad hybrids are fusion bonded multilayer stripline assemblies. The fusion bonding process yields a homogeneous monolithic dielectric structure with reliability, ruggedness, and electrical performance that is superior to conventional adhesive bonding techniques.

PACKAGE OUTLINE



QUAD HYBRID - QHD-3C-10G

PERFORMANCE DATA



TRUTH TABLE

TRUTH TABLE				
	1	2	3	4
1	Input	0°	90°	Iso
2	0°	Input	Iso	90°
3	90°	Iso	Input	0°
4	Iso	90°	0°	Input

QUAD HYBRID - QHD-2H-1.5G

TECHNICAL FEATURE

FEATURES

- 1.0 - 2.0 GHz
- High Isolation
- Low Loss
- Excellent Phase / Amplitude Balance
- Surface Mount
- Tape & Reel Available



PERFORMANCE

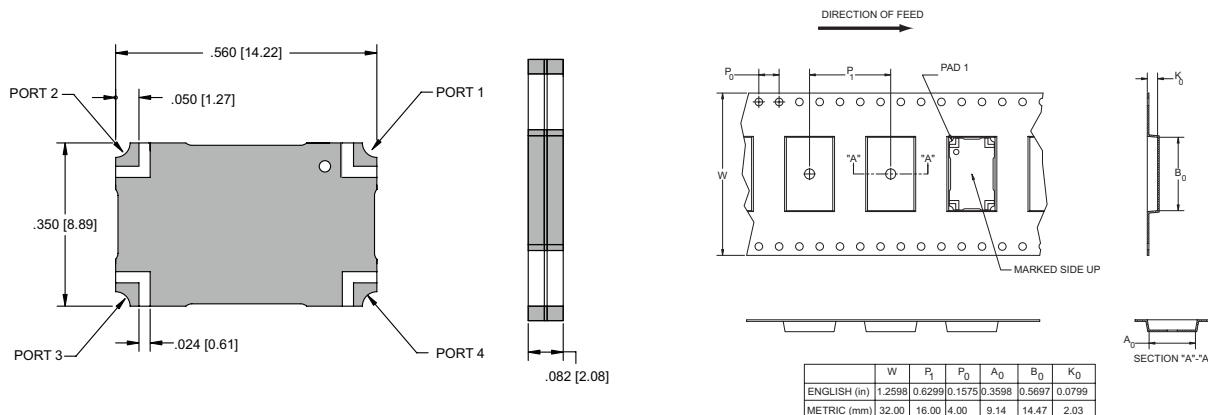
Frequency Range.....1200 - 1850 MHz, 1400 - 1700 MHz
1000 - 2000 MHz
 Isolation23, 23 dB min.
20 dB min.
 Insertion Loss0.20, 0.18 dB max.
0.25 dB max.
 VSWR.....1.20:1, 1.15:1 max.
1.20:1 max.
 Amplitude Balance ± 0.5 dB max.
 Phase Balance $90 \pm 2^\circ$, $90 \pm 2^\circ$ max.
 $90 \pm 3^\circ$ max.
 Input Power200 watts max.
 RF Interface.....Surface mount
 Operating Temperature Range-55 to +95°C

DESCRIPTION

The Multi-Mix® QHD series provides a 3 dB 90° coupling with low insertion loss, low VSWR, and high isolation. Accurate phase and amplitude balance make this series ideal for use in IQ networks, power amplifiers, radio transceivers, receiver multicouplers and RF signal distribution and processing equipment.

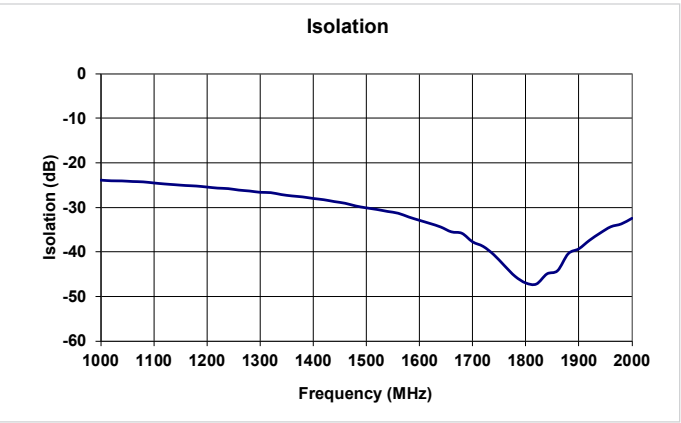
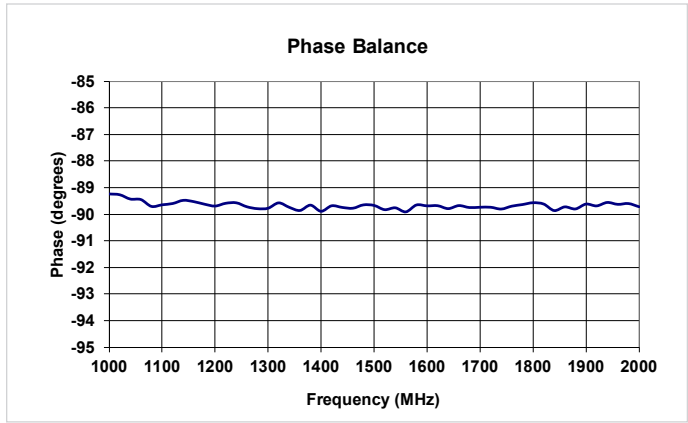
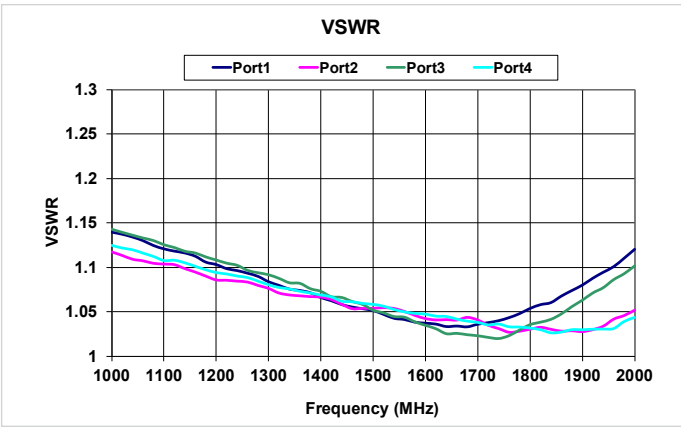
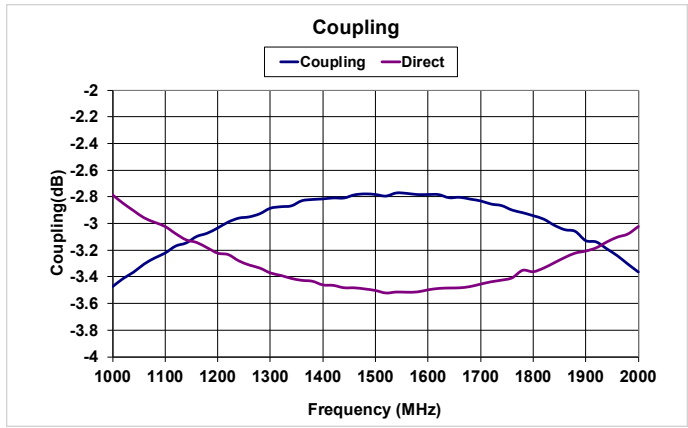
QHD quad hybrids are fusion bonded multilayer stripline devices. The fusion bonding process yields a homogeneous monolithic dielectric structure with reliability, ruggedness, and electrical performance that is superior to conventional adhesive bonding techniques.

PACKAGE OUTLINE / TAPE & REEL ORIENTATION

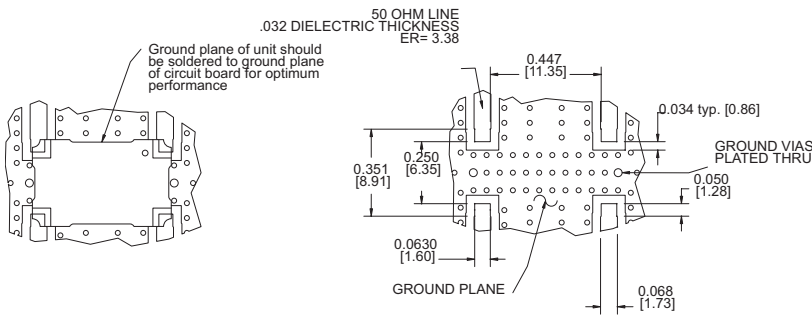


QUAD HYBRID - QHD-2H-1.5G

PERFORMANCE DATA



MOUNTING GUIDELINES



TRUTH TABLE

	1	2	3	4
1	Input	Iso	-90°	0°
2	Iso	Input	0°	-90°
3	-90°	0°	Input	Iso
4	0°	-90°	Iso	Input

QUAD HYBRID - QHDZ-2H-1.5G

TECHNICAL FEATURE

FEATURES

- 1000 - 2000 MHz
- High Isolation
- Low Loss
- Excellent Phase / Amplitude Balance
- Surface Mount
- Tape & Reel Available



PERFORMANCE

Frequency Range.....	1000 - 2000 MHz
Isolation	23 dB min.
Insertion Loss	0.25 dB max.
VSWR.....	1.2:1 max.
Amplitude Balance	± 0.5 dB max.
Phase Balance	$90 \pm 3^\circ$ max.
Input Power	200 watts max.
RF Interface.....	Surface mount
Operating Temperature Range	-55 to +95°C

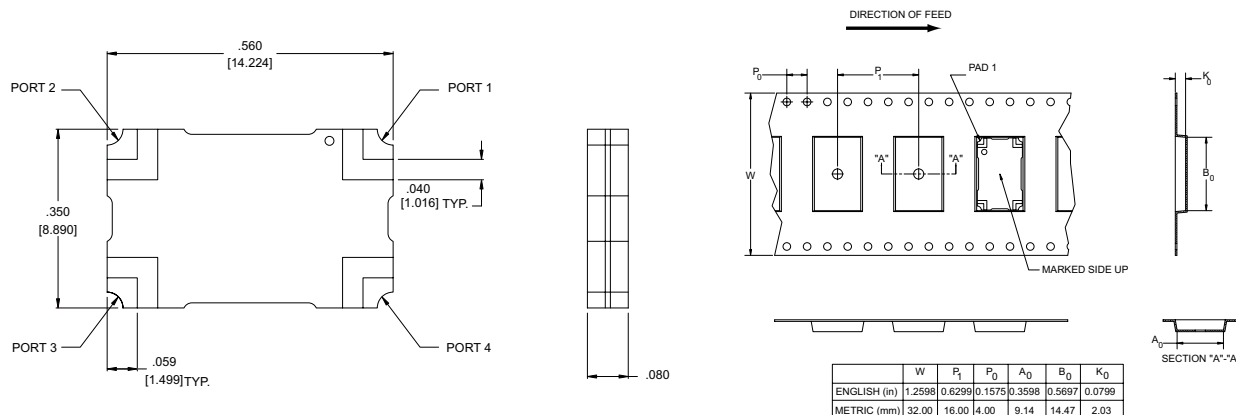
DESCRIPTION

The Multi-Mix® Zapper® QHDZ series provides a 3 dB 90° coupling with low insertion loss, low VSWR, and high isolation. Accurate phase and amplitude balance make this series ideal for use in IQ networks, power amplifiers, radio transceivers, receiver multicouplers and RF signal distribution and processing equipment.

QHDZ quad hybrids are fusion bonded multilayer stripline devices. The fusion bonding process yields a homogeneous monolithic dielectric structure with reliability, ruggedness, and electrical performance that is superior to conventional adhesive bonding techniques. Applications:

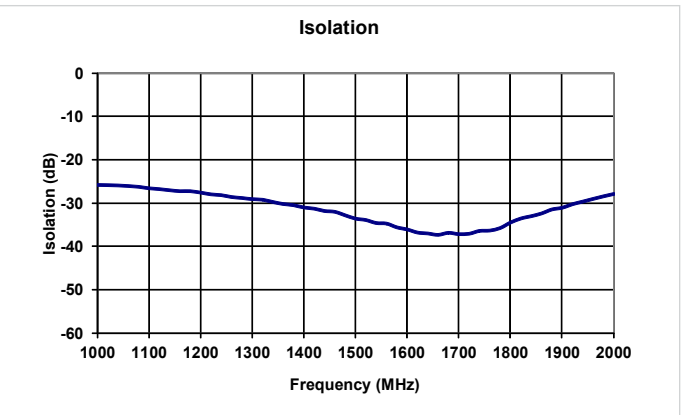
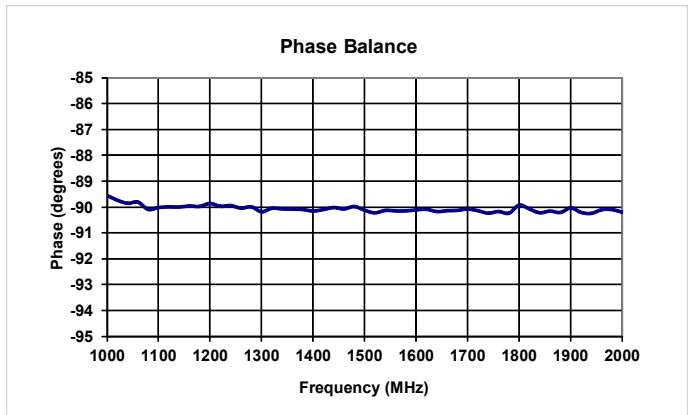
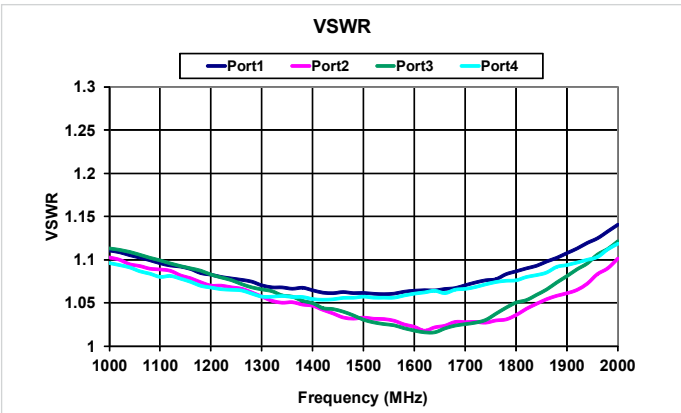
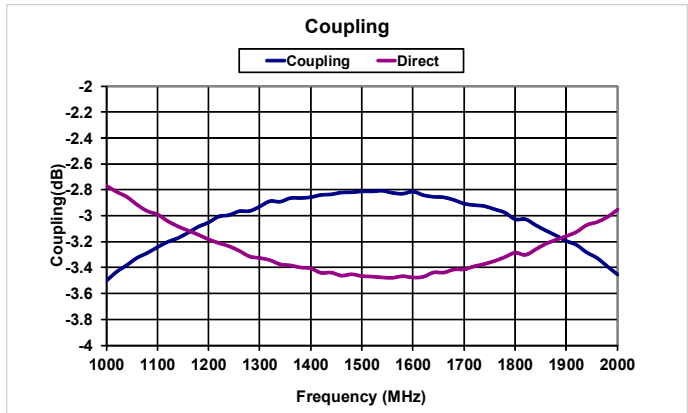
- JTRS

PACKAGE OUTLINE / TAPE & REEL ORIENTATION

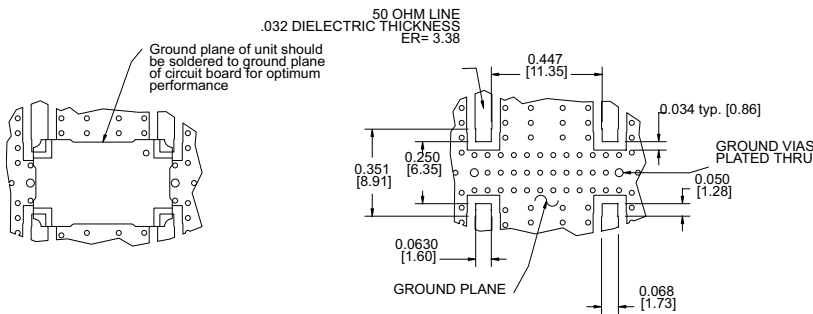


QUAD HYBRID - QHDZ-2H-1.5G

PERFORMANCE DATA



MOUNTING GUIDELINES



TRUTH TABLE

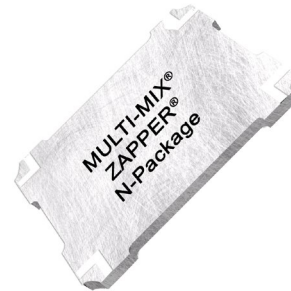
	1	2	3	4
1	Input	Iso	-90°	0°
2	Iso	Input	0°	-90°
3	-90°	0°	Input	Iso
4	0°	-90°	Iso	Input

QUAD HYBRID - QHDZ-2N-0.45G

TECHNICAL FEATURE

FEATURES

- 380 - 520 MHz
- High Isolation
- Low Loss
- Excellent Phase / Amplitude Balance
- High Power Handling
- Surface Mount



PERFORMANCE

Frequency Range.....	410 - 480 MHz
.....	380 - 520 MHz
Isolation	23 dB min.
.....	20 dB min.
Insertion Loss	0.2 dB max.
.....	0.3 dB max.
VSWR.....	1.15:1 max.
.....	1.20:1 max.
Amplitude Balance	±0.15 dB max.
.....	±0.3 dB max.
Phase Balance	90 ± 2° max.
.....	90 ± 3° max.
Input Power	200 watts max.
RF Interface.....	Surface mount
Operating Temperature Range	-55 to +95°C

DESCRIPTION

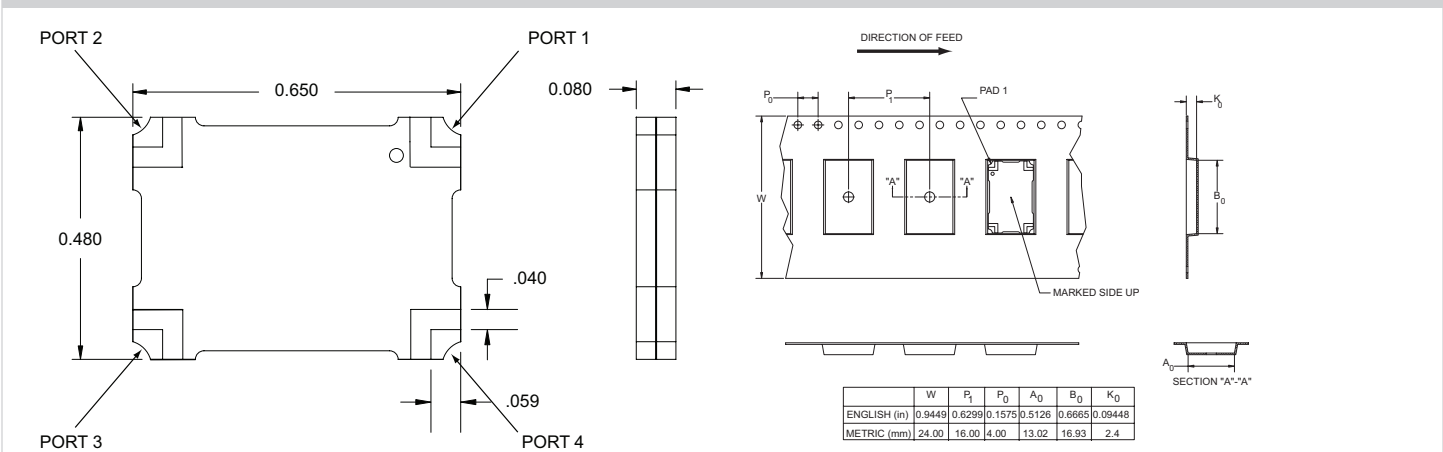
The QHDZ-2N-0.45G series is a member of the Multi-Mix® Zapper® QHDZ family of 3-dB 90° couplers for use in the 380-520 MHz range. The QHDZ-2N-0.45G exhibits low insertion loss, low VSWR, and high isolation. Excellent phase and amplitude balance and high RF power handling capability make this series ideal for use in base station power amplifiers in particular and radio transceivers, receiver/antenna multicouplers and RF signal distribution and processing equipment in general.

The construction of QHDZ quad hybrids is based on fusion bonded multiplayer stripline structures. The fusion bonding process yields homogeneous monolithic dielectric structures with reliability, ruggedness, and electrical and thermal performance that are superior to conventional adhesive bonding techniques.

Applications:

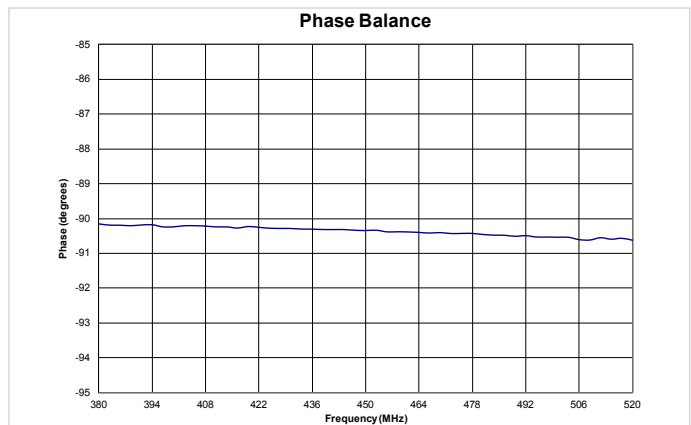
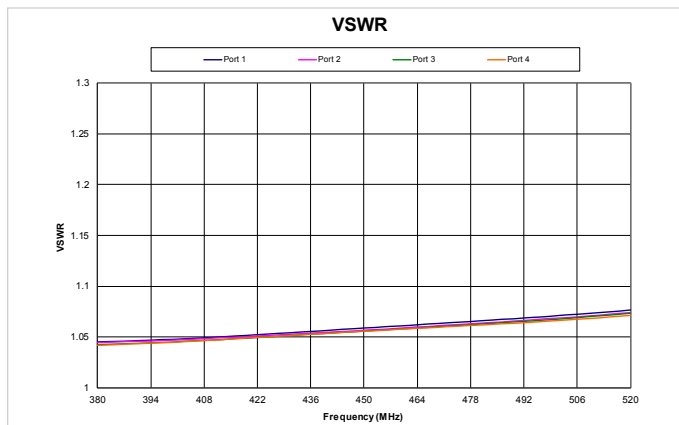
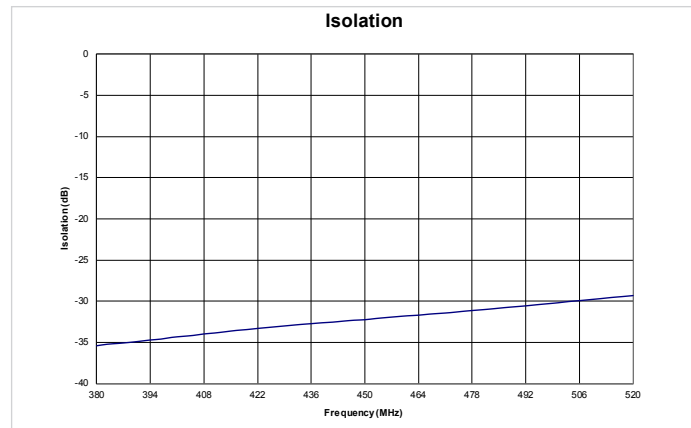
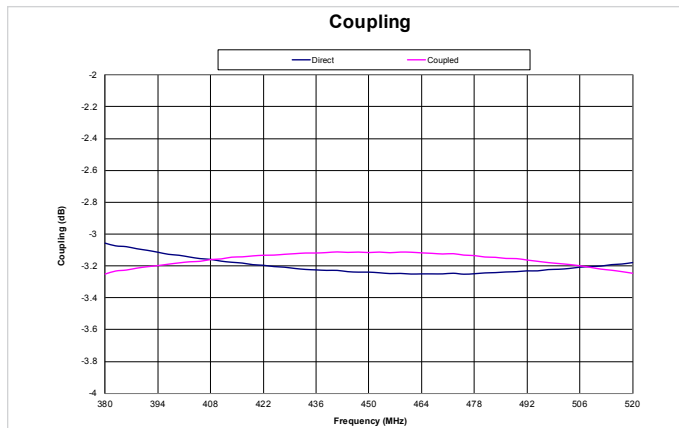
- CDMA 450 base station power amplifiers
- UHF land mobile radio base station power amplifiers
- UHF radar (400-500 MHz)

PACKAGE OUTLINE / TAPE & REEL ORIENTATION

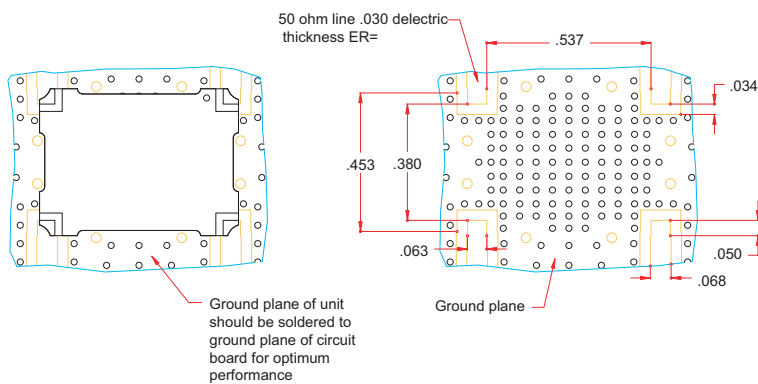


QUAD HYBRID - QHDZ-2N-0.45G

PERFORMANCE DATA



MOUNTING GUIDELINES



TRUTH TABLE

	1	2	3	4
1	Input	Iso	-90°	0°
2	Iso	Input	0°	-90°
3	-90°	0°	Input	Iso
4	0°	-90°	Iso	Input

QUAD HYBRID - QHDZ-2N-0.45G

TECHNICAL FEATURE

FEATURES

- 380 - 520 MHz
- High Isolation
- Low Loss
- Excellent Phase / Amplitude Balance
- High Power Handling
- Surface Mount



PERFORMANCE

Frequency Range.....	410 - 480 MHz
.....	380 - 520 MHz
Isolation	23 dB min.
.....	20 dB min.
Insertion Loss	0.2 dB max.
.....	0.3 dB max.
VSWR.....	1.15:1 max.
.....	1.20:1 max.
Amplitude Balance	±0.15 dB max.
.....	±0.3 dB max.
Phase Balance	90 ± 2° max.
.....	90 ± 3° max.
Input Power	200 watts max.
RF Interface.....	Surface mount
Operating Temperature Range	-55 to +95°C

DESCRIPTION

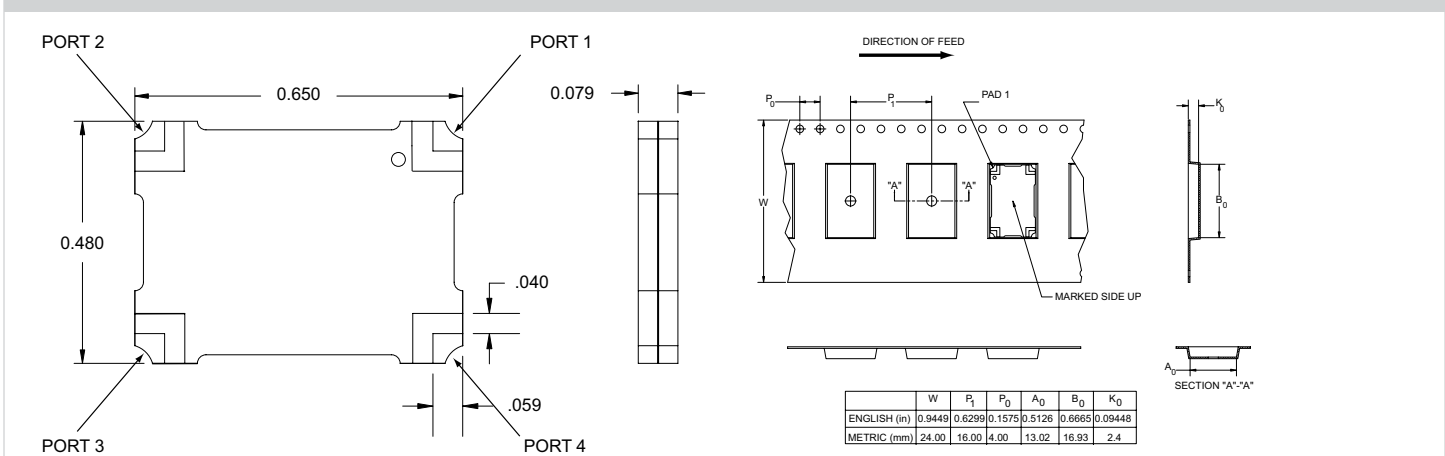
The QHDZ-2N-0.45G series is a member of the Multi-Mix® Zapper® QHDZ family of 3-dB 90° couplers for use in the 380-520 MHz range. The QHDZ-2N-0.45G exhibits low insertion loss, low VSWR, and high isolation. Excellent phase and amplitude balance and high RF power handling capability make this series ideal for use in base station power amplifiers in particular and radio transceivers, receiver/antenna multicouplers and RF signal distribution and processing equipment in general.

The construction of QHDZ quad hybrids is based on fusion bonded multiplayer stripline structures. The fusion bonding process yields homogeneous monolithic dielectric structures with reliability, ruggedness, and electrical and thermal performance that are superior to conventional adhesive bonding techniques.

Applications:

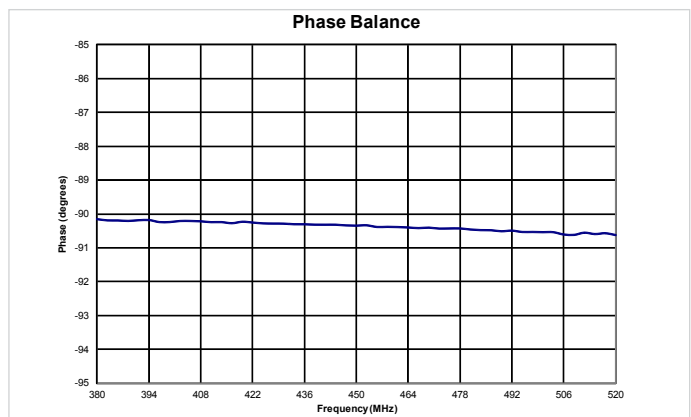
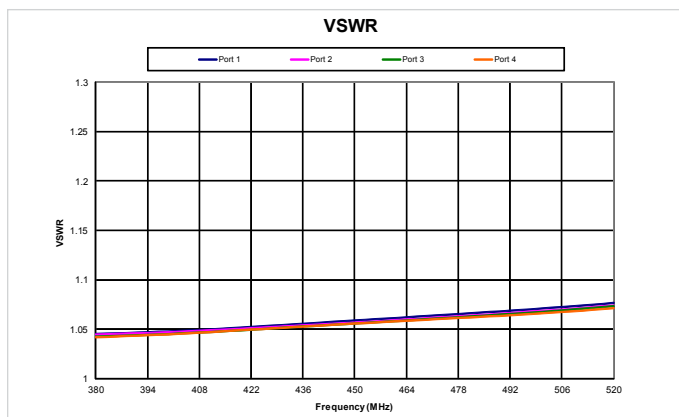
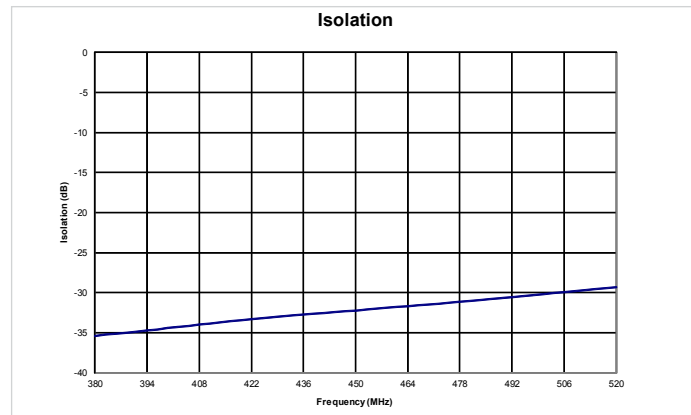
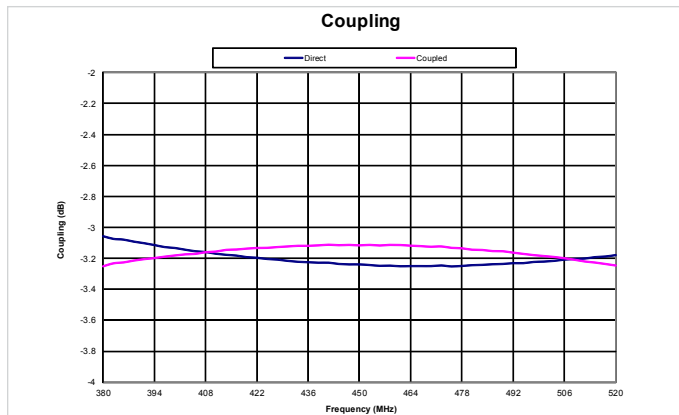
- CDMA 450 base station power amplifiers
- UHF land mobile radio base station power amplifiers
- UHF radar (400-500 MHz)

PACKAGE OUTLINE / TAPE & REEL ORIENTATION

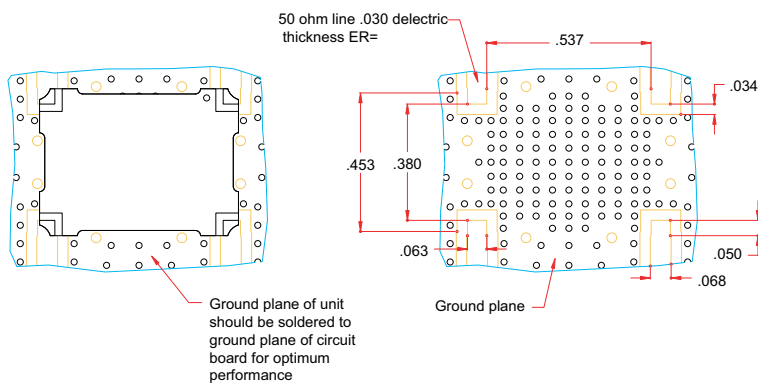


QUAD HYBRID - QHDZ-2N-0.45G

PERFORMANCE DATA



MOUNTING GUIDELINES



TRUTH TABLE

	1	2	3	4
1	Input	Iso	-90°	0°
2	Iso	Input	0°	-90°
3	-90°	0°	Input	Iso
4	0°	-90°	Iso	Input

QUAD HYBRID - QHDZ-2SH-3.5G

TECHNICAL FEATURE

FEATURES

- 3.3 - 3.7 GHz
- High Isolation
- Low Loss
- Excellent Phase / Amplitude Balance
- Surface Mount
- Tape & Reel Available



PERFORMANCE

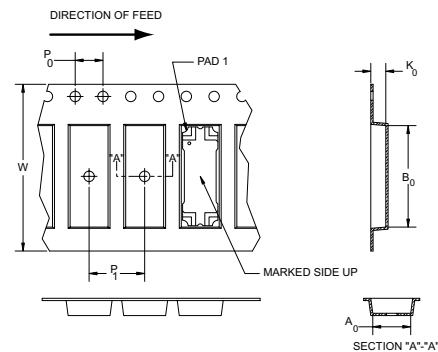
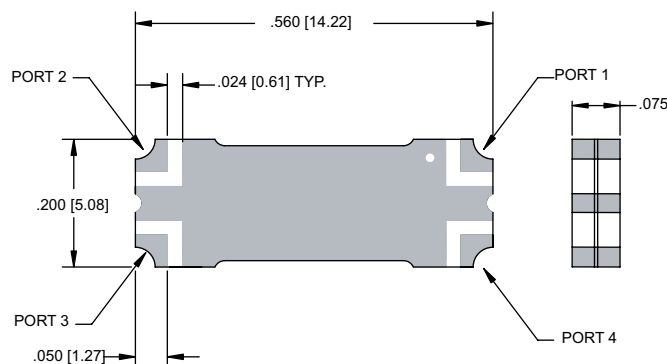
Frequency Range	3.3 - 3.7 GHz
Isolation	23 dB min.
Insertion Loss	0.20 dB max.
VSWR	1.15:1 max.
Amplitude Balance	± 0.20 dB max.
Phase Balance	$90 \pm 3^\circ$ max.
Input Power	125 watts max.
RF Interface	Surface mount
Operating Temperature Range	-55 to +85°C

DESCRIPTION

The Multi-Mix® Zapper® QHDZ series provides a 3 dB 90° coupling with low insertion loss, low VSWR, and high isolation. Accurate phase and amplitude balance make this series ideal for use in IQ networks, power amplifiers, radio transceivers, receiver multicouplers and RF signal distribution and processing.

QHDZ quad hybrids are fusion bonded multilayer stripline devices. The fusion bonding process yields a homogeneous monolithic dielectric structure with reliability, ruggedness, and electrical performance that is superior to conventional adhesive bonding techniques.

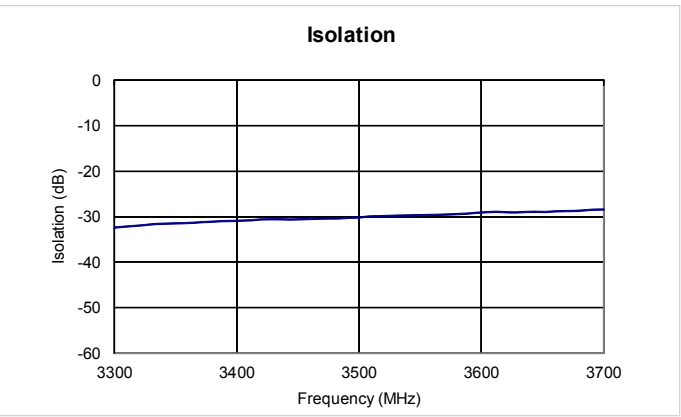
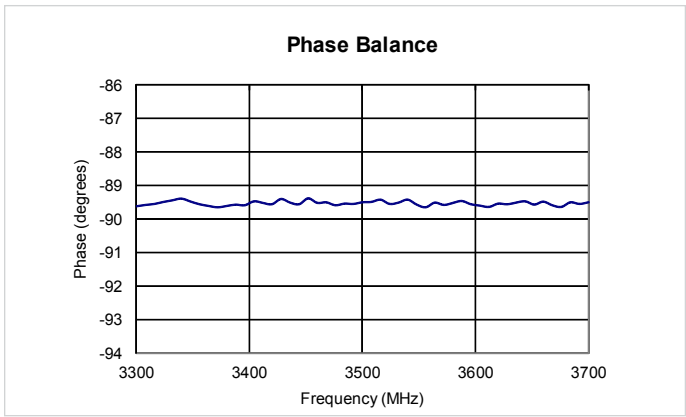
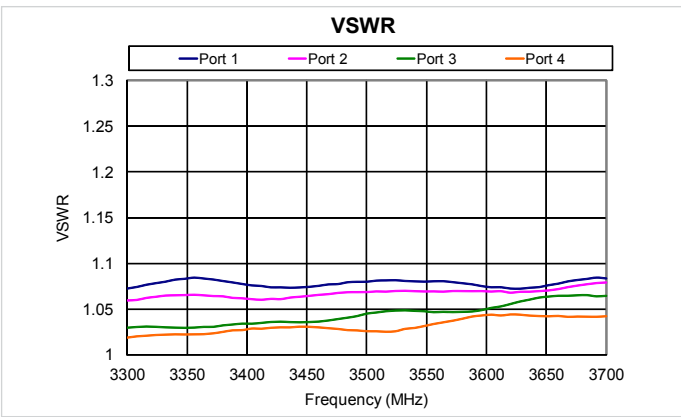
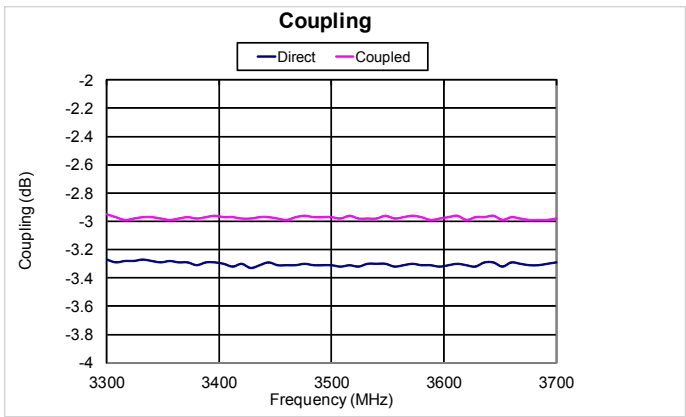
PACKAGE OUTLINE / TAPE & REEL ORIENTATION



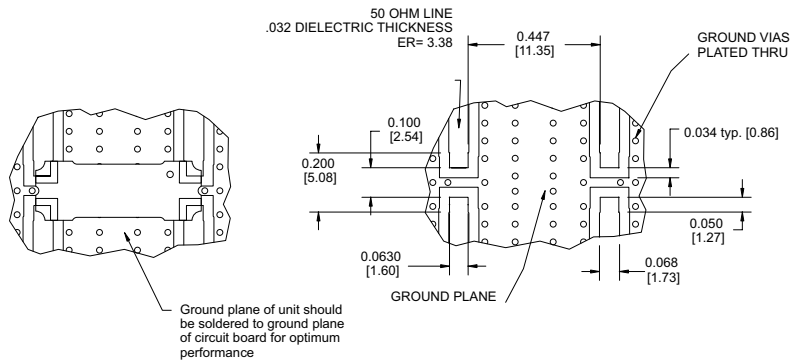
	W	P ₁	P ₀	A ₀	B ₀	K ₀
ENGLISH (in)	0.9449	0.3150	0.1575	0.2150	0.5752	0.0850
METRIC (mm)	24.00	8.00	4.00	5.46	14.61	2.16

QUAD HYBRID - QHDZ-2SH-3.5G

PERFORMANCE DATA



MOUNTING GUIDELINES



TRUTH TABLE

	1	2	3	4
1	Input	Iso	-90°	0°
2	Iso	Input	0°	-90°
3	-90°	0°	Input	Iso
4	0°	-90°	Iso	Input

QUAD HYBRID - QHDZ-2X-0.9G

TECHNICAL FEATURE

FEATURES

- 0.8 - 1.0 GHz
- High Isolation
- Low Loss
- Excellent Phase / Amplitude Balance
- Surface Mount
- Tape & Reel



PERFORMANCE

Frequency Range.....	0.8 - 1.0 GHz
Isolation	20 dB min.
Insertion Loss	0.35 dB max.
VSWR.....	1.20:1 max.
Amplitude Balance	± 0.30 dB max.
Phase Balance	$90 \pm 3^\circ$ max.
Input Power	30 watts max.
RF Interface.....	Surface mount
Operating Temperature Range	-55 to +85°C

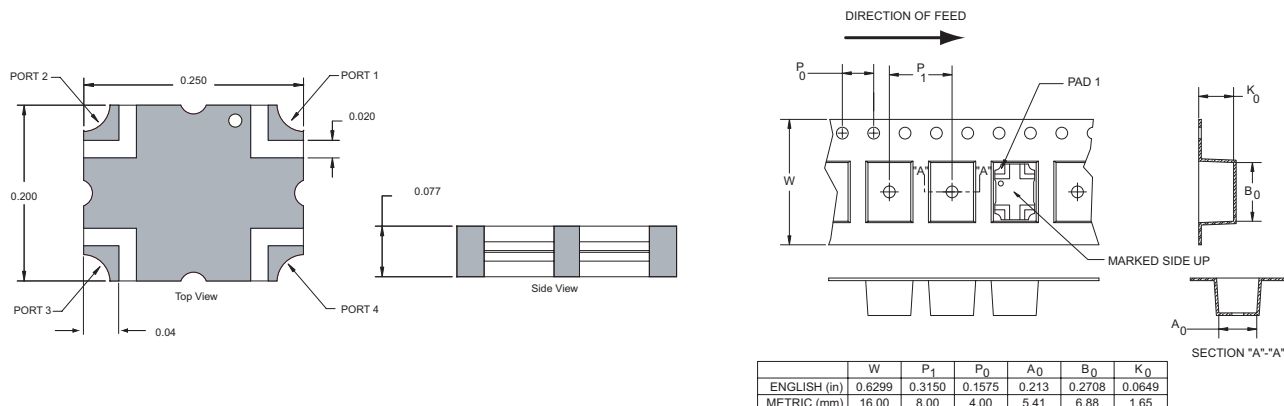
DESCRIPTION

The Multi-Mix® Zapper® QHDZ series provides a 3 dB 90° coupling with low insertion loss, low VSWR, and high isolation. Accurate phase and amplitude balance make this series ideal for use in IQ networks, power amplifiers, radio transceivers, receiver multicouplers and RF signal distribution and processing.

QHD quad hybrids are fusion bonded multilayer stripline devices. The fusion bonding process yields a homogeneous monolithic dielectric structure with reliability, ruggedness, and electrical performance that is superior to conventional adhesive bonding techniques.

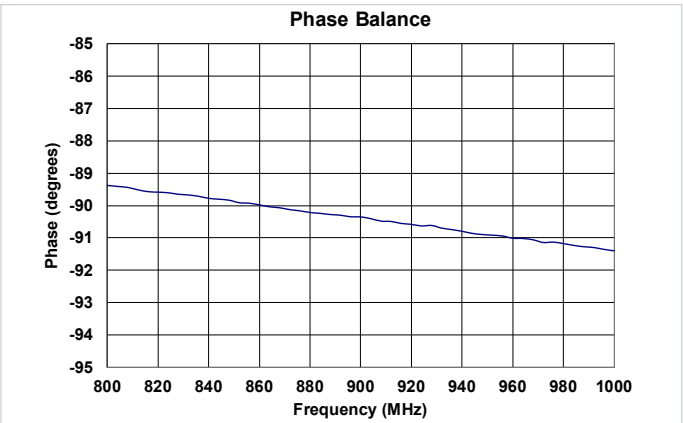
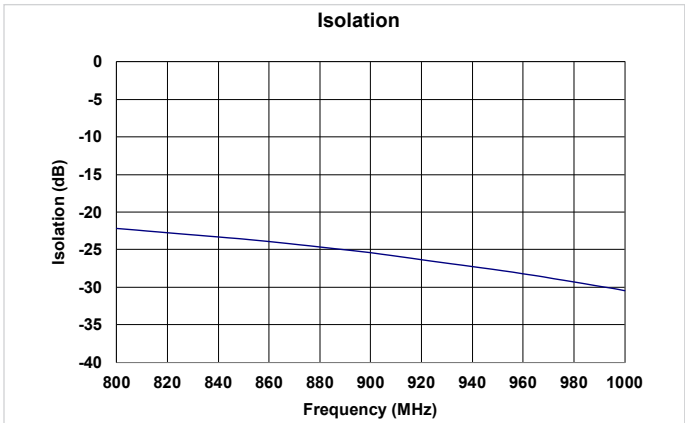
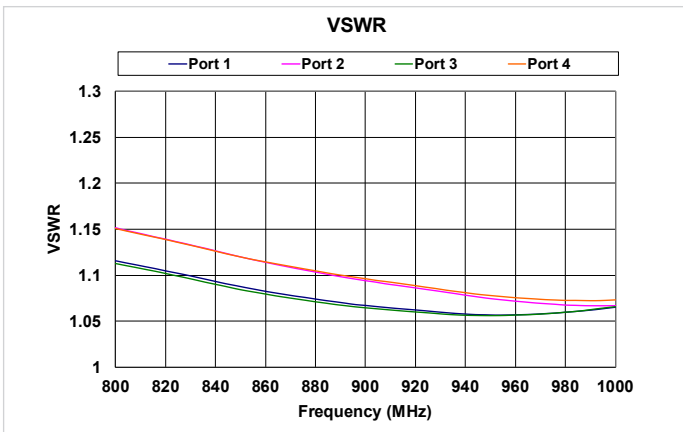
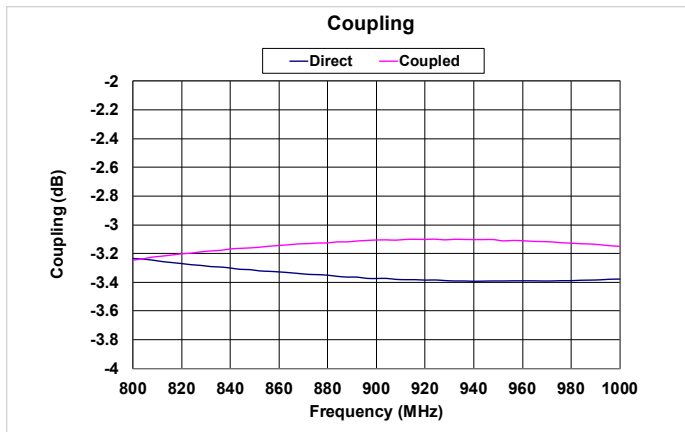
Beginning 05/02/13, individual units will not be marked, but tape and reel packaging will include the Merrimac part # and date code. Individual units will have an index mark etched as shown on the data sheets.

PACKAGE OUTLINE / TAPE & REEL ORIENTATION

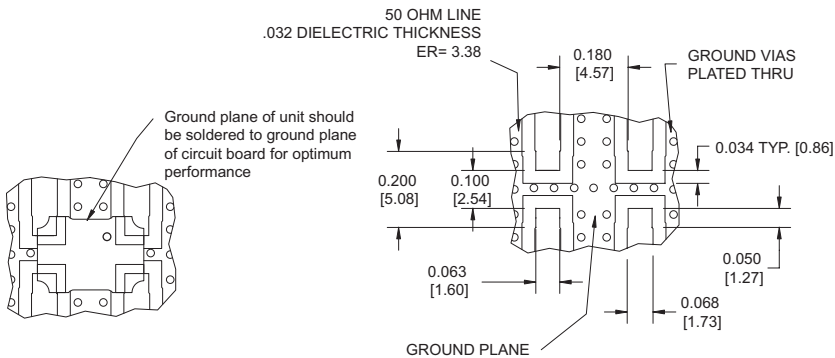


QUAD HYBRID - QHDZ-2X-0.9G

PERFORMANCE DATA



MOUNTING GUIDELINES



TRUTH TABLE

TRUTH TABLE				
	1	2	3	4
1	Input	Iso	-90°	0°
2	Iso	Input	0°	-90°
3	-90°	0°	Input	Iso
4	0°	-90°	Iso	Input

QUAD HYBRID - QHDZ-2X-2.5G

TECHNICAL FEATURE

FEATURES

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



PERFORMANCE

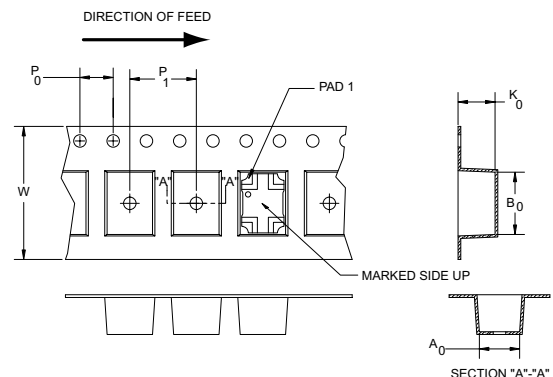
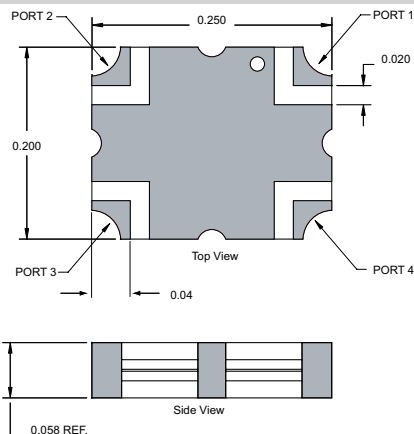
Frequency Range.....	2.3 - 2.7 GHz
Isolation	20 dB min.
Insertion Loss	0.30 dB max.
VSWR.....	1.20:1 max.
Amplitude Balance	± 0.30 dB max.
Phase Balance	$90 \pm 3^\circ$ max.
Input Power	25 watts max.
RF Interface.....	Surface mount
Operating Temperature Range	-55 to +95°C

DESCRIPTION

The Multi-Mix® Zapper® QHDZ series provides a 3 dB 90° coupling with low insertion loss, low VSWR, and high isolation. Accurate phase and amplitude balance make this series ideal for use in IQ networks, power amplifiers, radio transceivers, receiver multicouplers and RF signal distribution and processing.

QHDZ quad hybrids are fusion bonded multilayer stripline devices. The fusion bonding process yields a homogeneous monolithic dielectric structure with reliability, ruggedness, and electrical performance that is superior to conventional adhesive bonding techniques.

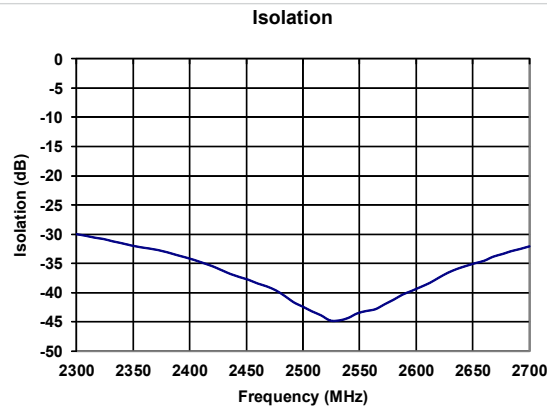
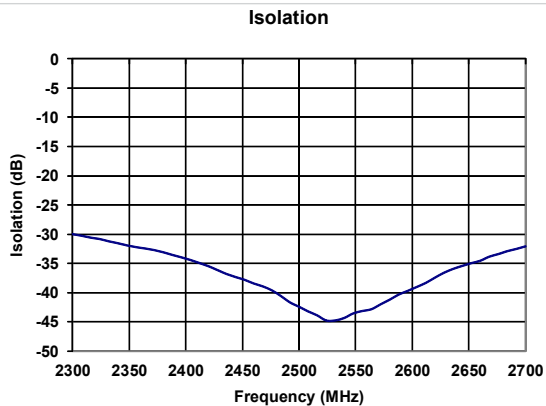
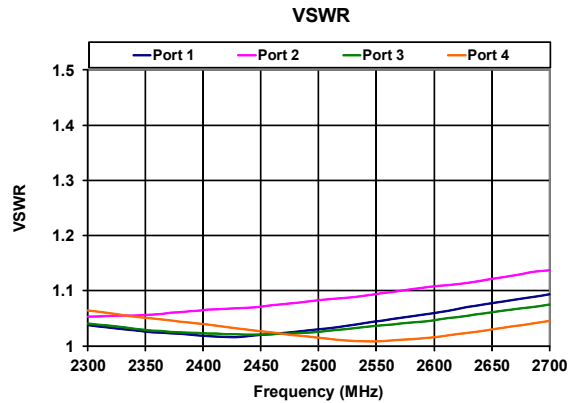
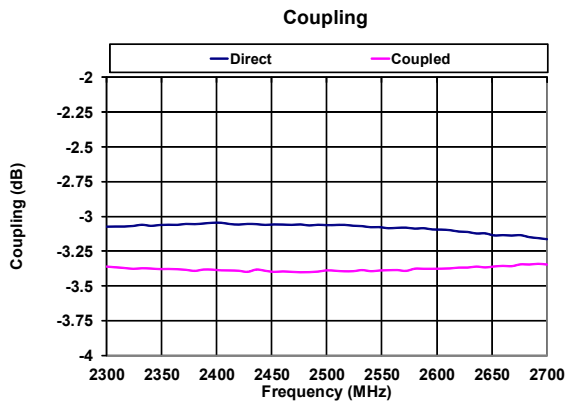
PACKAGE OUTLINE / TAPE & REEL ORIENTATION



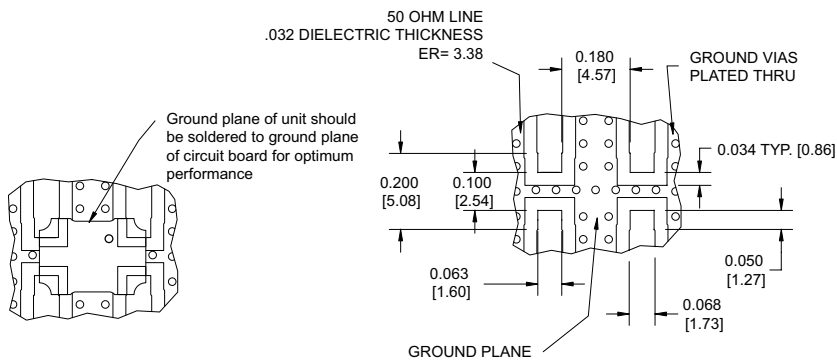
	W	P ₁	P ₀	A ₀	B ₀	K ₀
ENGLISH (in)	0.6299	0.3150	0.1575	0.213	0.2708	0.0649
METRIC (mm)	16.00	8.00	4.00	5.41	6.88	1.65

QUAD HYBRID - QHDZ-2X-2.5G

PERFORMANCE DATA



MOUNTING GUIDELINES



TRUTH TABLE

TRUTH TABLE				
	1	2	3	4
1	Input	Iso	-90°	0°
2	Iso	Input	0°	-90°
3	-90°	0°	Input	Iso
4	0°	-90°	Iso	Input

QUAD HYBRID - QHDZ-2Z-2.45G

TECHNICAL FEATURE

FEATURES

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



RoHS Compliant

PERFORMANCE

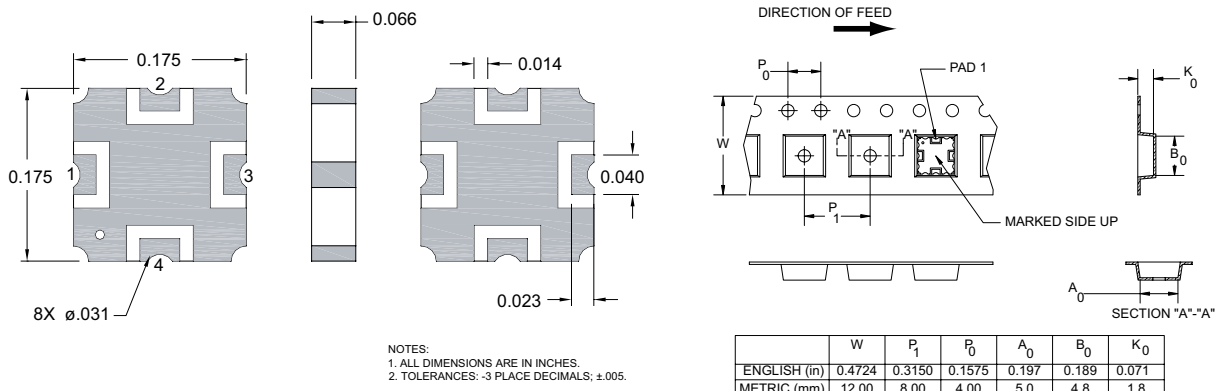
Frequency Range.....	2.3 - 2.7 GHz
Isolation	20 dB min.
Insertion Loss	0.30 dB max.
VSWR.....	1.30:1 max.
Amplitude Balance	± 0.3 dB max.
Phase Balance	$90 \pm 3^\circ$ max.
Input Power	25 watts max.
Size.....	0.175 x 0.175 x 0.049 inches
Weight	0.002 oz.
RF Interface.....	Surface mount
Operating Temperature Range	-55 to +95°C

DESCRIPTION

The Multi-Mix® Zapper® QHDZ-Z 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.

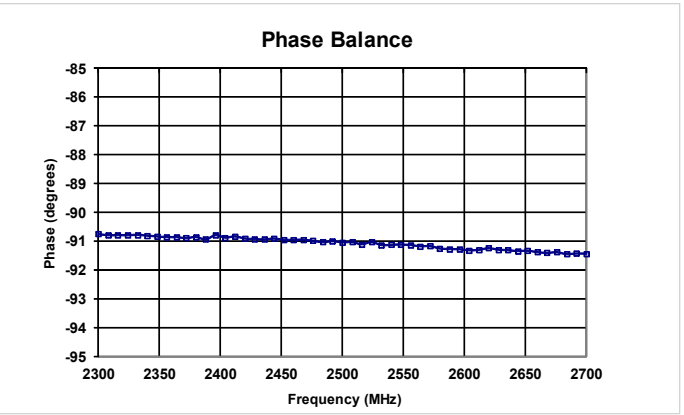
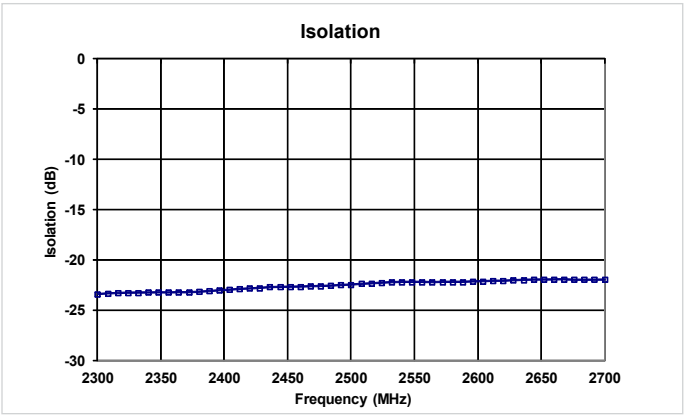
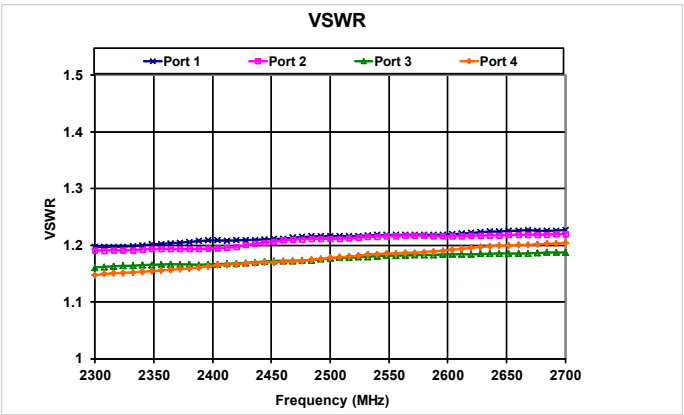
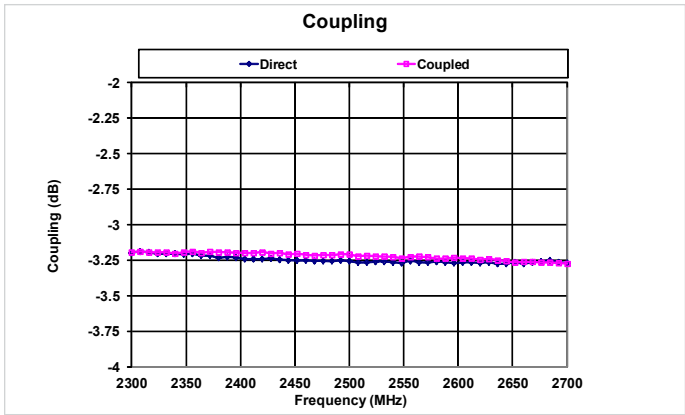
The QHDZ-Z series is an easy to install SMD designed specifically for the full spectrum of wireless applications. The high stability ceramic filled PTFE dielectrics utilized in these components are compatible with common substrates such as FR-4, G-10, and polyamide. The wrap around ground plane provides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

PACKAGE OUTLINE / TAPE & REEL ORIENTATION

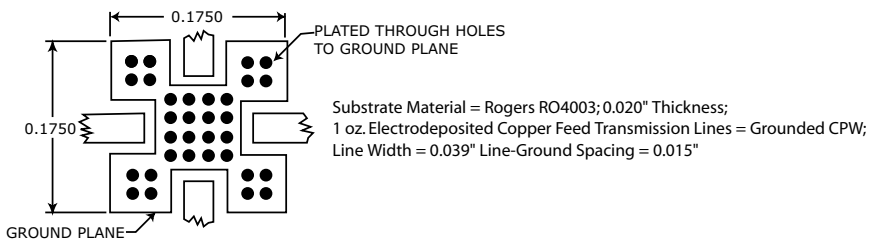


QUAD HYBRID - QHDZ-2Z-2.45G

PERFORMANCE DATA



MOUNTING GUIDELINES



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

QUAD HYBRID - QHDZ-2Z-1.9G

TECHNICAL FEATURE

FEATURES

- 1.7 - 2.0 GHz
- High Power - 25 Watts CW
- Low Loss
- Low VSWR
- Surface Mount
- Tape & Reel



RoHS Compliant

PERFORMANCE

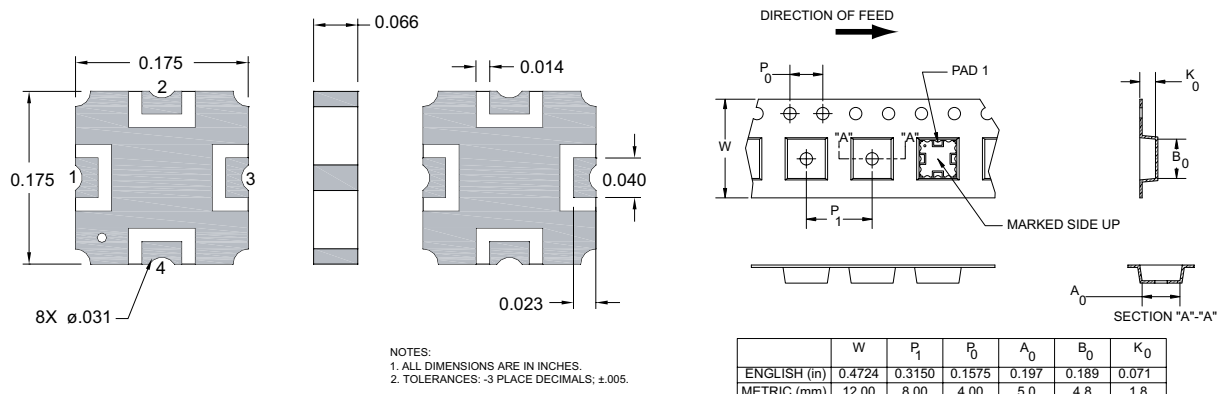
Frequency Range.....	1.7 - 2.0 GHz
Isolation	20 dB min.
Insertion Loss	0.30 dB max.
VSWR.....	1.30:1 max.
Amplitude Balance	±0.3 dB max.
Phase Balance	90 ± 3° max.
Input Power	25 watts max.
Size.....	0.175 x 0.175 x 0.066 inches
Weight	0.002 oz.
RF Interface.....	Surface mount
Operating Temperature Range	-55 to +95°C

DESCRIPTION

The Multi-Mix® Zapper® QHDZ-Z 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.

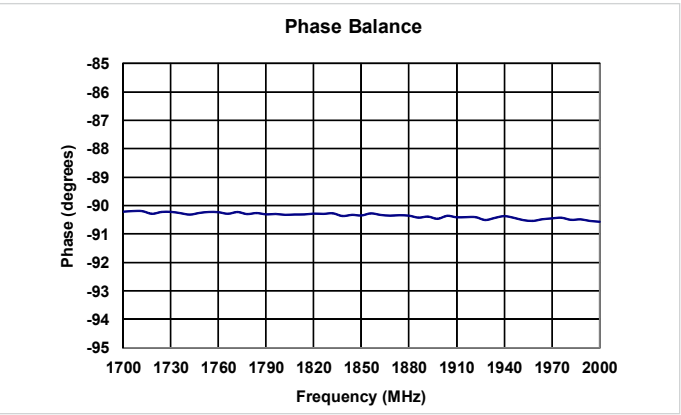
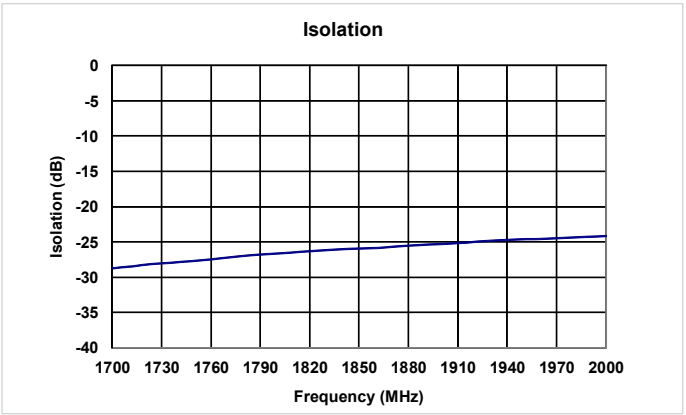
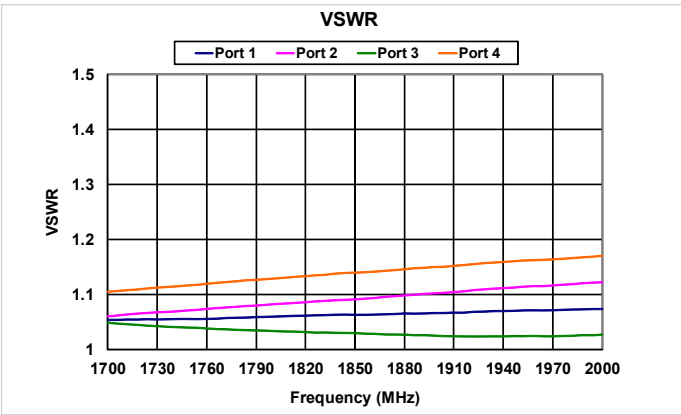
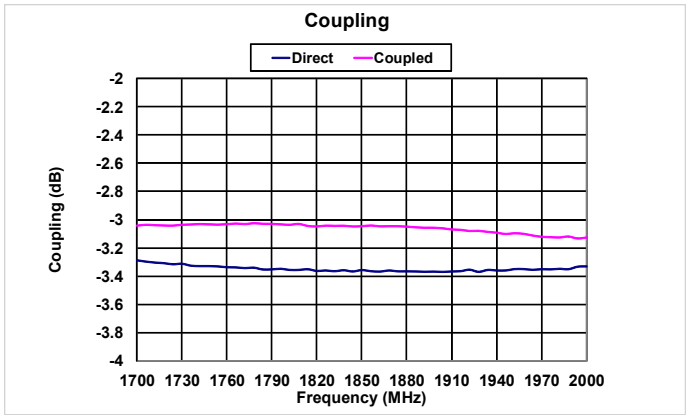
The QHDZ-Z series is an easy to install SMD designed specifically for the full spectrum of wireless applications. The high stability ceramic filled PTFE dielectrics utilized in these components are compatible with common substrates such as FR-4, G-10, and polyamide. The wrap around ground plane provides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

PACKAGE OUTLINE / TAPE & REEL ORIENTATION

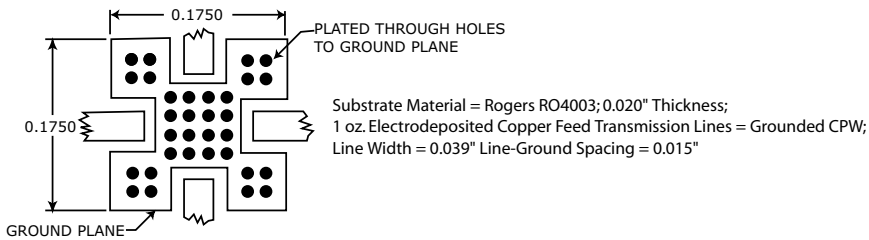


QUAD HYBRID - QHDZ-2Z-1.9G

PERFORMANCE DATA



MOUNTING GUIDELINES



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

QUAD HYBRID - QHDZ-2Z-3.5G

TECHNICAL FEATURE

FEATURES

- 3.3 - 3.7 GHz
- High Power - 25 Watts CW
- Low Loss
- Low VSWR
- Surface Mount
- Tape & Reel



RoHS Compliant

PERFORMANCE

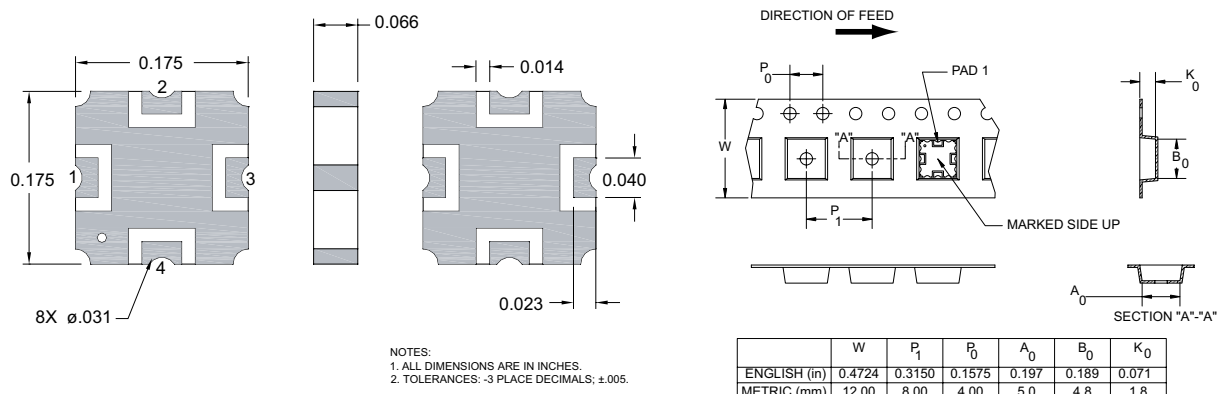
Frequency Range.....	3.3 - 3.7 GHz
Isolation	20 dB min.
Insertion Loss	0.30 dB max.
VSWR.....	1.30:1 max.
Amplitude Balance	±0.3 dB max.
Phase Balance	90 ± 3° max.
Input Power	25 watts max.
Size.....	0.175 x 0.175 x 0.049 inches
Weight	0.002 oz.
RF Interface.....	Surface mount
Operating Temperature Range	-55 to +95°C

DESCRIPTION

The Multi-Mix® Zapper® QHDZ-Z 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.

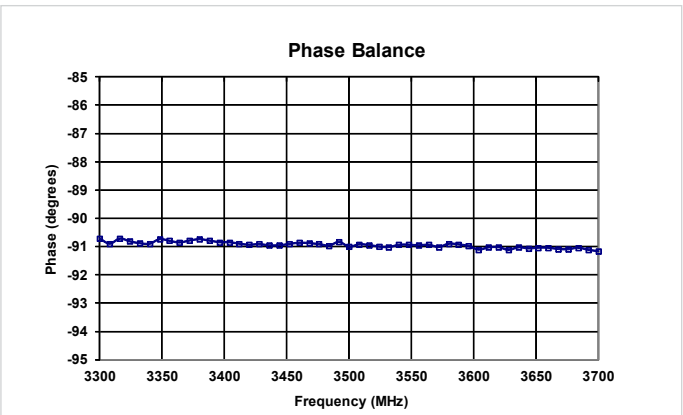
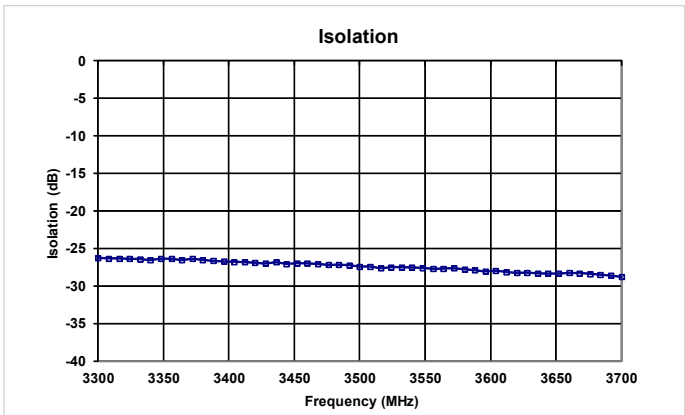
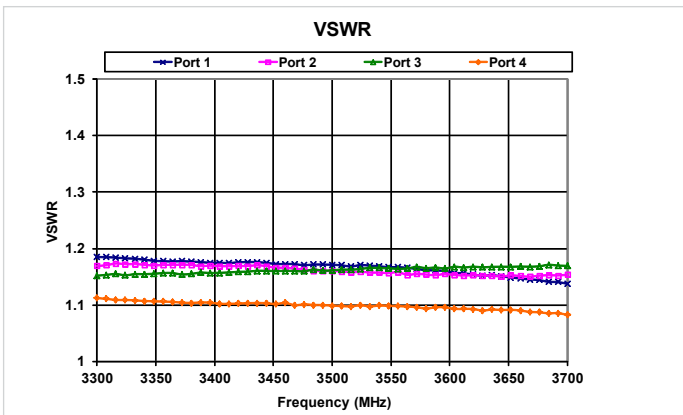
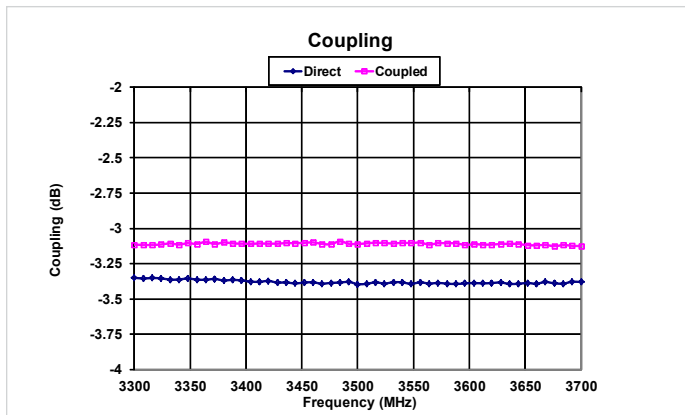
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PACKAGE OUTLINE / TAPE & REEL ORIENTATION

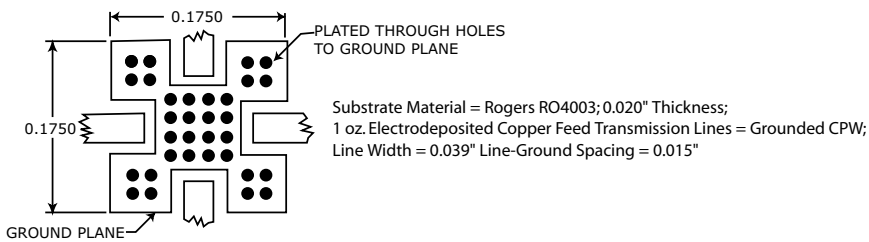


QUAD HYBRID - QHDZ-2Z-3.5G

PERFORMANCE DATA



MOUNTING GUIDELINES



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