

### TECHNICAL FEATURE

#### FEATURES

- 3.3 - 3.7 GHz
- High Isolation / Low Loss
- Multiple Plating Options
- Space Qualified Version Available
- Surface Mount
- Tape & Reel Available

#### PRINCIPAL SPECIFICATIONS

Model Number	Frequency Range GHz	Insertion Loss dB Max.	Amplitude Balance dB Max.	Phase Balance Max.	VSWR, Max. All Ports	Isolation dB Min.	Input Power Max.
QHDZ-2SH-3.5G	3.3 - 3.7	0.20	± 0.20 dB	90 ± 3°	1.15:1	23	125

#### GENERAL NOTES

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 multi-couplers 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.

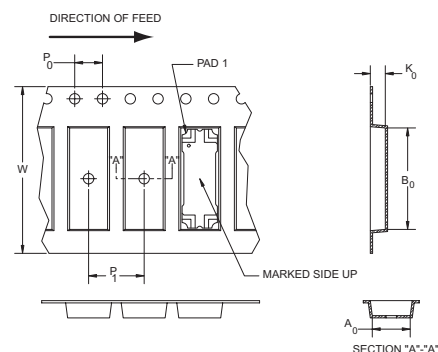
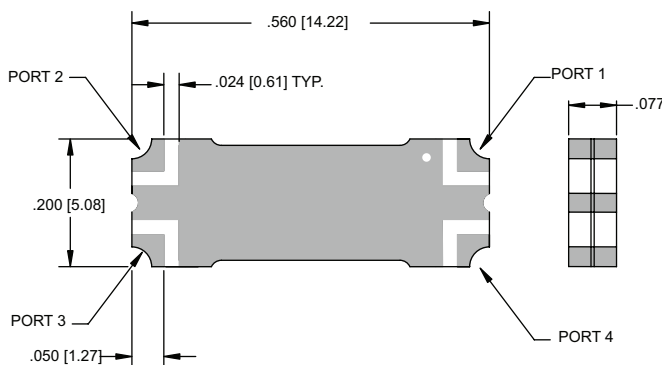
#### GENERAL SPECIFICATIONS

Size ..... 0.56" x 0.20" x 0.077"  
 Weight, max.....0.010 oz. (0.297 g)  
 RF Interface.....Surface Mount  
 Operating Temperature..... -55° to +95° C

#### 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

#### PACKAGE OUTLINE / TAPE & REEL ORIENTATION

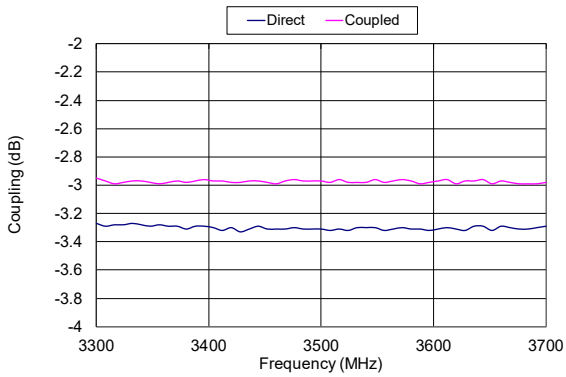


NOTES: Dimensional tolerance unless otherwise specified shall be: +/- .005"  
 Thickness tolerance: +/- .005"

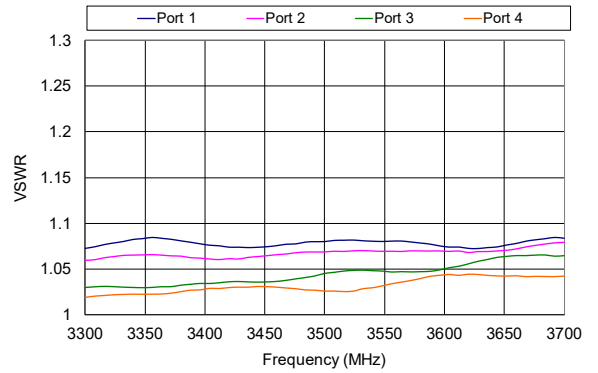
	W	P <sub>1</sub>	P <sub>0</sub>	A <sub>0</sub>	B <sub>0</sub>	K <sub>0</sub>
ENGLISH (in)	0.9449	0.3150	0.1575	0.2150	0.5752	0.0850
METRIC (mm)	24.00	8.00	4.00	5.46	14.61	2.16

# QUAD HYBRID - QHDZ-2SH-3.5G

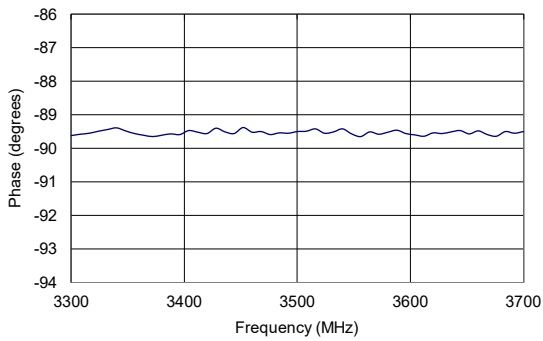
## COUPLING



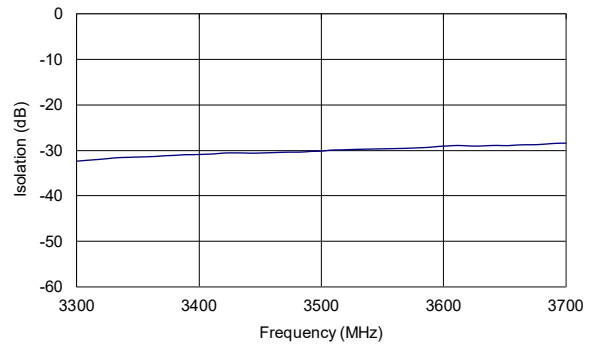
## VSWR



## PHASE BALANCE



## ISOLATION



## MOUNTING GUIDELINES

