

FEATURES

- Low Profile Surface Mount Package
- High Power
- Low Insertion Loss
- High Isolation
- 100% Tested

APPLICATIONS

- Power Amplifiers
- Modulator
- Demodulator
- Signal Distribution Network
- Antenna Feeds
- Switch Networks
- MRI Applications



GENERAL DESCRIPTION

Florida RF Labs offers high performance hybrid couplers in a low profile, surface mount package. These couplers are designed for demanding applications where high power, low loss and excellent isolation are required.

SPECIFICATIONS

1.0 ELECTRICAL

Frequency	Isolation	Insertion Loss	VSWR	Amplitude Balance	Phase Error	Power Handling
118 to 138 MHz	10 dB Min	1.00 dB Max	1.67 Max	±0.50 dB	90° ± 3	10 Watts CW
123 to 133 MHz	15 dB Min	0.80 dB Max	1.40 Max	±0.20 dB	90° ± 2	10 Watts CW
127 to 129 MHz	18 dB Min	0.80 dB Max	1.30 Max	±0.20 dB	90° ± 2	10 Watts CW

2.0 MECHANICAL

Operating Temperature: -55 °C to +125 °C
 Substrate: LTCC
 Conductor: Silver
 Plating: Copper, Silver Plated
 Application Note: AN0030 (General Hybrid And Directional Coupler)

3.0 UNIT MARKING

Logo, Part Number and Pin 1 Identification

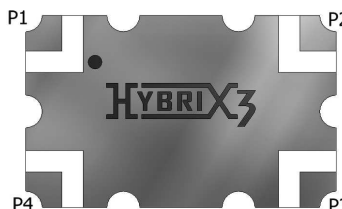
4.0 PACKAGING

Standard: Tape And Reel

5.0 PART NUMBERING

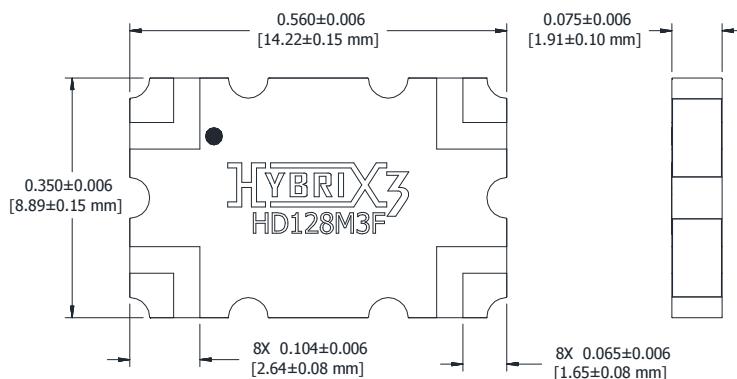
Part Identifier: HD128M3F

PIN CONFIGURATION



Port	P1	P2	P3	P4
P1	-	Iso	-90°	0°
P2	Iso	-	0°	-90°
P3	-90°	0°	-	Iso
P4	0°	-90°	Iso	-

MECHANICAL OUTLINE

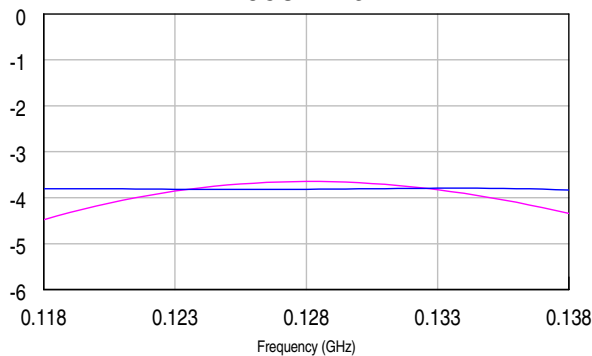


Note: Specifications are subject to change without notice.

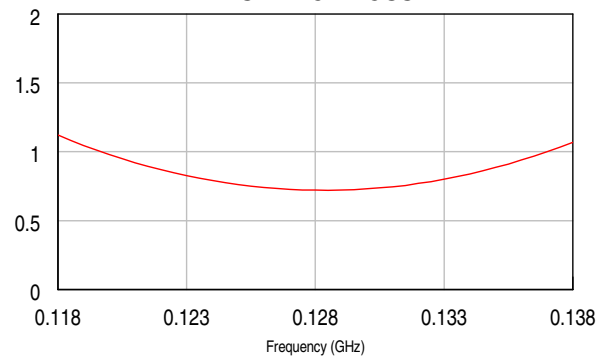
Unless Otherwise Specified: TOLERANCE: .XXX = ± .010

6.0 TYPICAL PERFORMANCE AT 25 °C

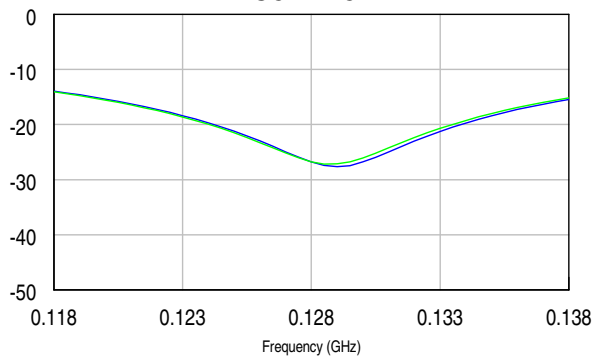
COUPLING



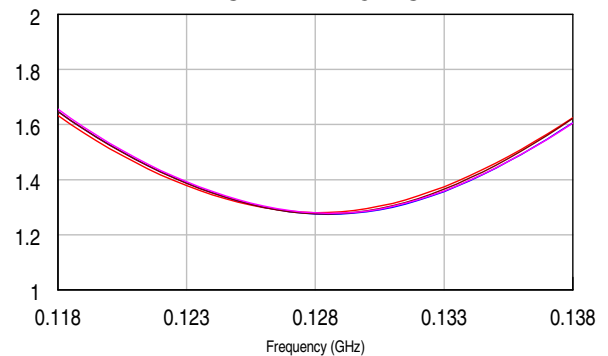
INSERTION LOSS



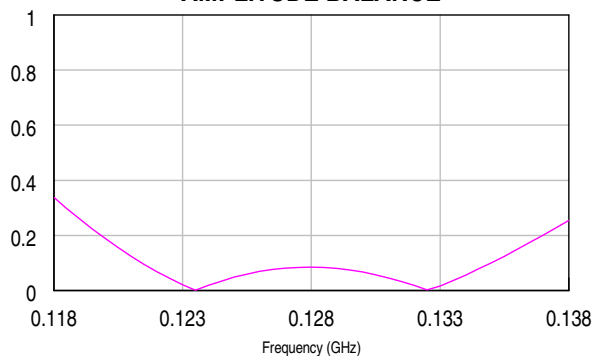
ISOLATION



VSWR ALL PORTS



AMPLITUDE BALANCE



PHASE ERROR

