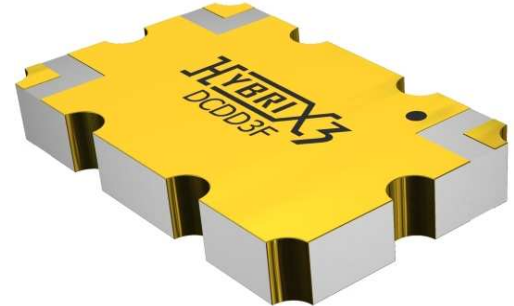


FEATURES

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

APPLICATIONS

- Doherty Amplifiers
- Modulator
- Demodulator
- Signal Distribution Network
- Antenna Feeds



GENERAL DESCRIPTION

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

SPECIFICATIONS

1.0 ELECTRICAL

Frequency	Isolation	Insertion Loss	VSWR	Amplitude Balance	Phase Balance	Power Handling
815 to 960 MHz	5.0 dB Min	0.2 dB Max	1.20:1 Max	± 0.3 dB Max	90° ± 15	200 Watts CW
900 to 960 MHz	5.0 dB Min	0.2 dB Max	1.20:1 Max	± 0.2 dB Max	90° ± 5	200 Watts CW
850 to 960 MHz	5.0 dB Min	0.2 dB Max	1.20:1 Max	± 0.2 dB Max	90° ± 10	200 Watts CW

2.0 MECHANICAL

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

3.0 UNIT MARKING

Logo, Part Number and Pin 1 Identification

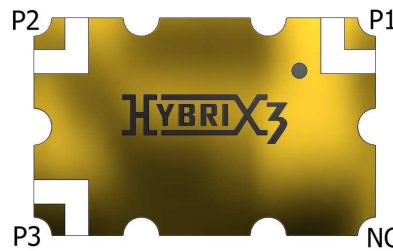
4.0 PACKAGING

- Standard: Tape And Reel

5.0 PART NUMBERING

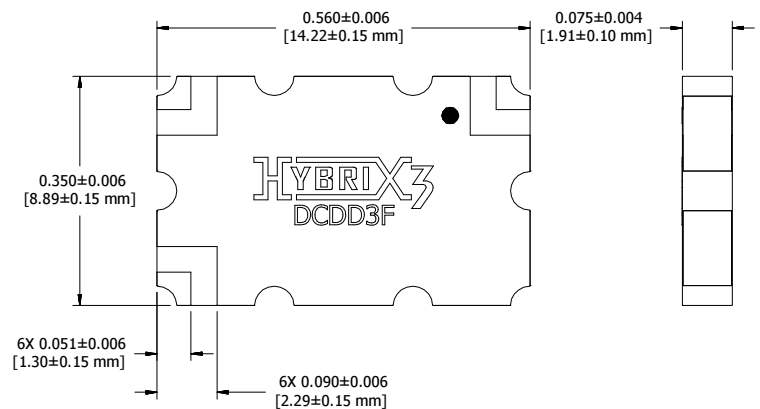
- Part Identifier: DCDD3F

PIN CONFIGURATION



Port	P1	P2	P3
P1	6 dB	6 dB	3 dB
P2	6 dB	6 dB	3 dB
P3	3 dB	3 dB	20 dB

MECHANICAL OUTLINE

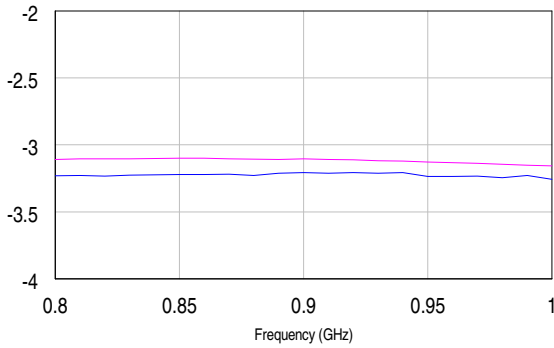


Unless Otherwise Specified: TOLERANCE: .XXX = ± .010

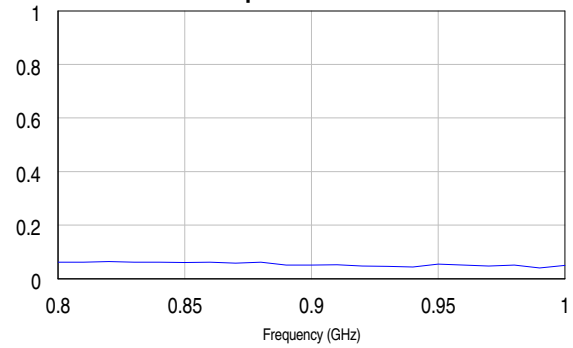
Note: Specifications are subject to change without notice.

6.0 TYPICAL PERFORMANCE AT 25 °C

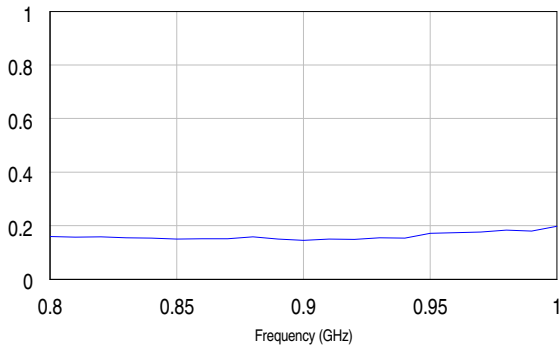
Peak & Carrier Transmissions



Amplitude Balance



Insertion Loss



VSWR

