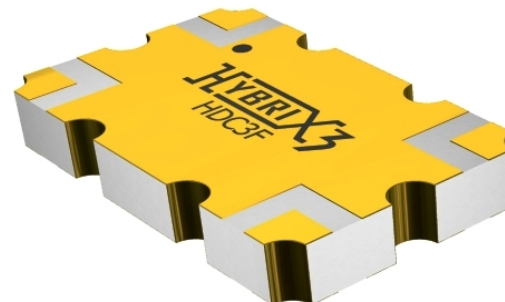


FEATURES

- 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



GENERAL DESCRIPTION

Florida RF LabsFlorida 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
380 to 520 MHz	20 dB Min	0.3 dB Max	1.20 Max	±0.15 dB Max	90° ±3	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

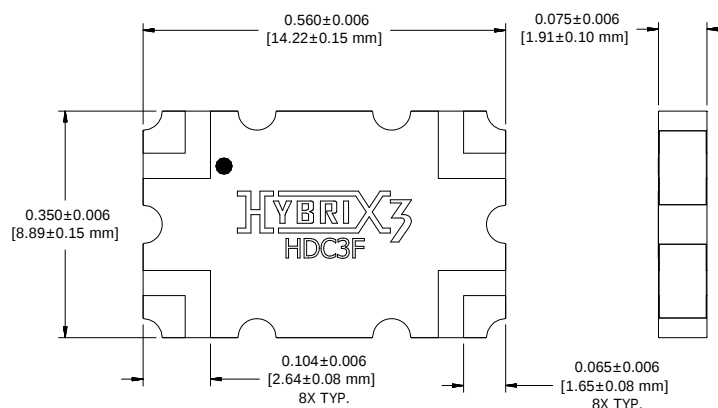
Part Identifier: HDC3F

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

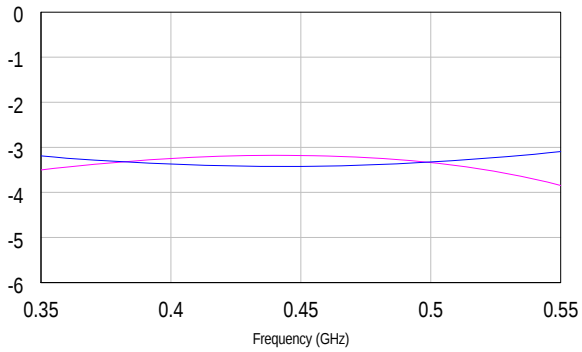


Note: Specifications are subject to change without notice.

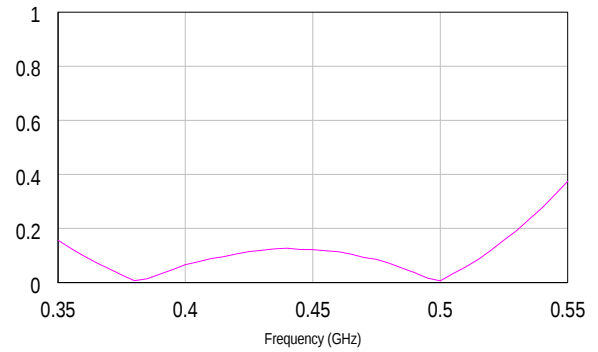
Unless Otherwise Specified: TOLERANCE: .XXX = ± .010

6.0 TYPICAL PERFORMANCE AT 25 °C

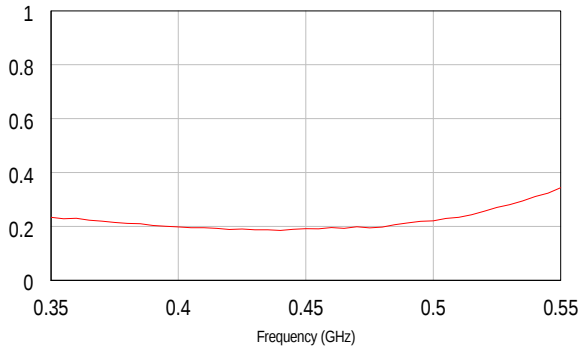
COUPLING



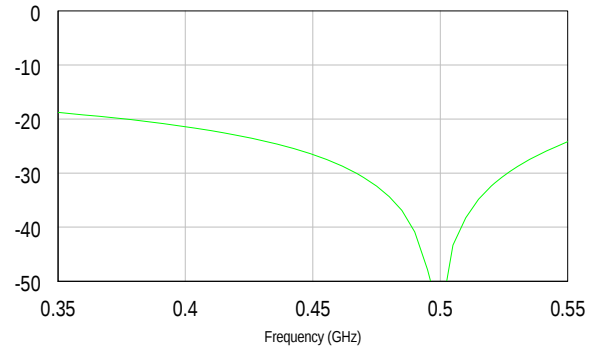
AMPLITUDE BALANCE



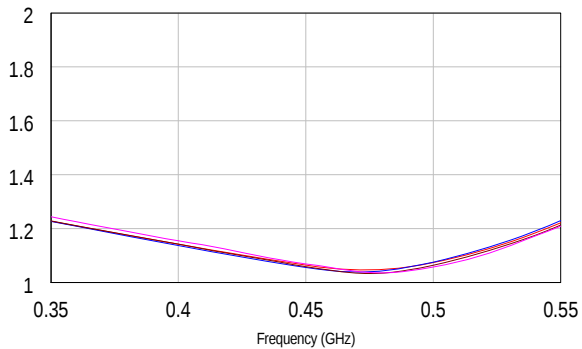
INSERTION LOSS



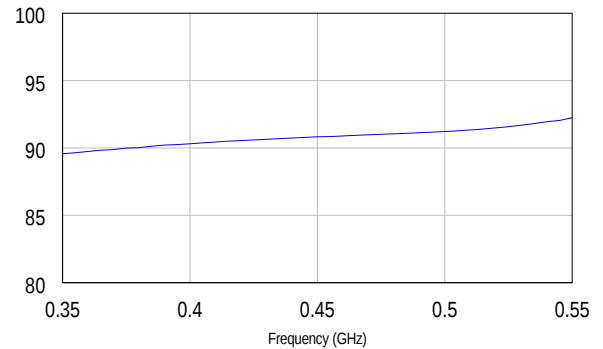
ISOLATION



VSWR ALL PORTS



PHASE BALANCE



D