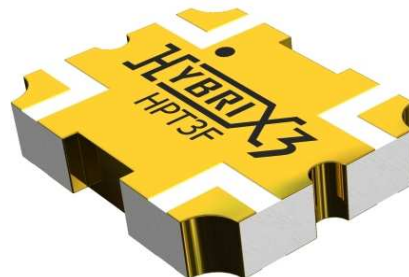


FEATURES

- 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 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
600 to 900 MHz	23 dB Min	0.18 dB Max	1.15 Max	0.25 dB Max	90° ± 3	150 Watts CW
690 to 810 MHz	25 dB Min	0.15 dB Max	1.12 Max	0.20 dB Max	90° ± 2	180 Watts CW
791 to 821 MHz	24 dB Min	0.18 dB Max	1.15 Max	0.22 dB Max	90° ± 3	150 Watts CW
700 to 900 MHz	25 dB Min	0.18 dB Max	1.12 Max	0.25 dB Max	90° ± 3	150 Watts CW

2.0 MECHANICAL

Operating Temperature: -55 °C to +125 °C
 Thermal Resistance: 12.5 °C/W
 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

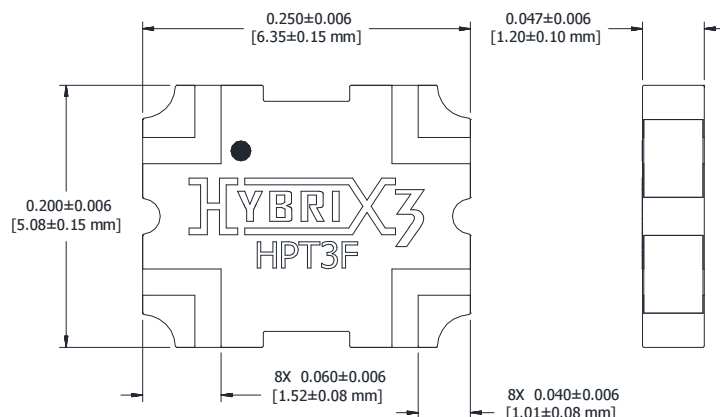
Part Identifier: HPT3F

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

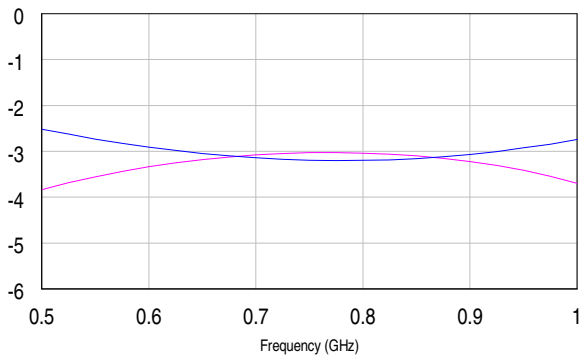


Unless Otherwise Specified: TOLERANCE: .XXX = ± .010

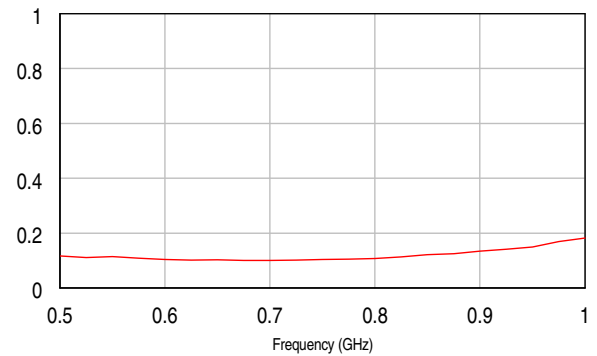
Note: Specifications are subject to change without notice.

6.0 TYPICAL PERFORMANCE AT 25 °C

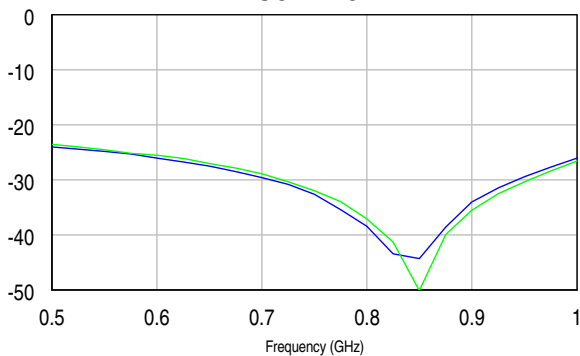
COUPLING



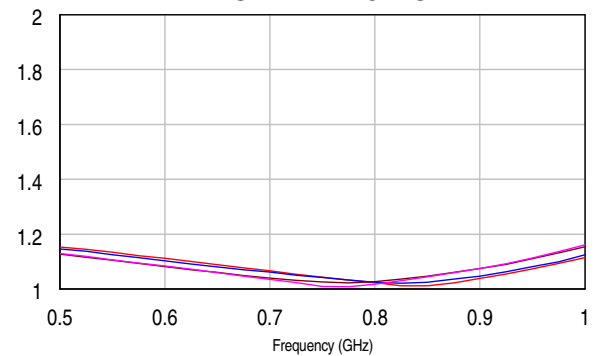
INSERTION LOSS



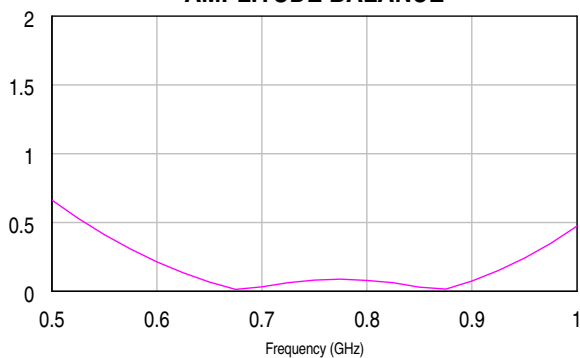
ISOLATION



VSWR ALL PORTS



AMPLITUDE BALANCE



PHASE BALANCE

