

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
2300 to 2800 MHz	26 dB Min	0.15 dB Max	1.2 Max	0.25 dB Max	90° ± 3	80 Watts CW***

***NOTE: POWER RATING IS SPECIFIED AT 85 °C BASE TEMPERATURE. MAXIMUM POWER HANDLING OF 110W IS ATTAINABLE WITH IMPROVED HEAT SINK AND OTHER THERMAL MANAGEMENT FEATURES.

2.0 MECHANICAL

Operating Temperature: -55 °C to +125 °C
 Thermal Resistance: 16.6 °C / Watt
 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

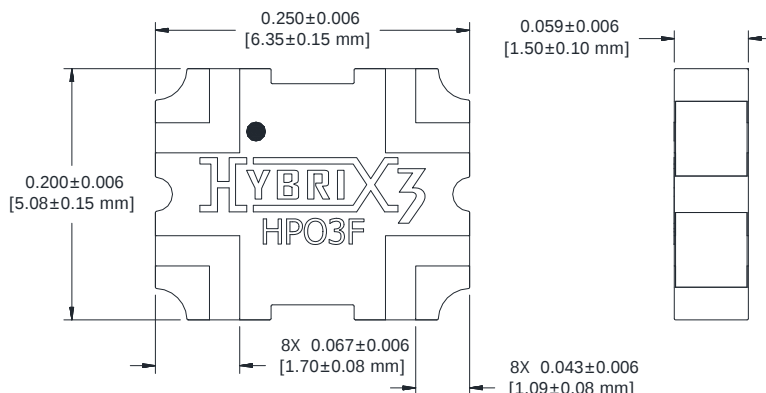
Part Identifier: HPO3F

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

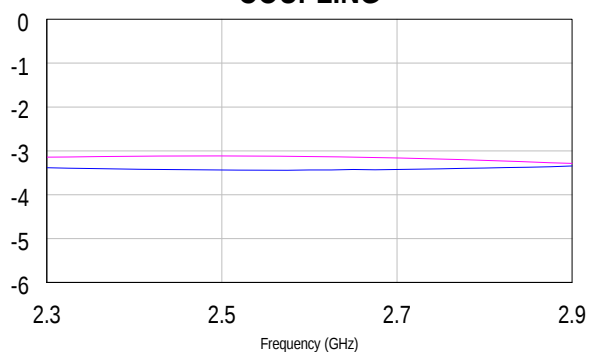


Note: Specifications are subject to change without notice.

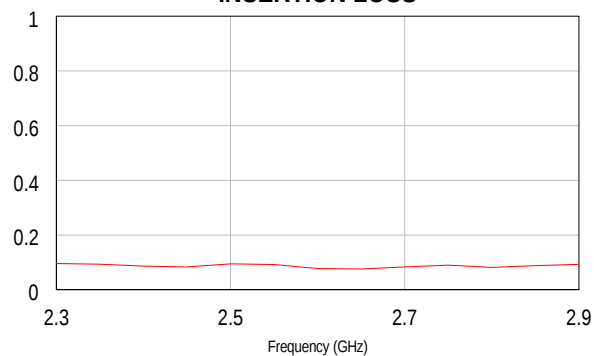
Unless Otherwise Specified: TOLERANCE: .XXX = ± .010

6.0 TYPICAL PERFORMANCE AT 25 °C

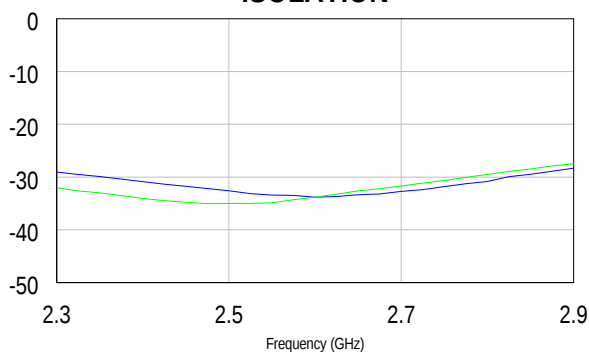
COUPLING



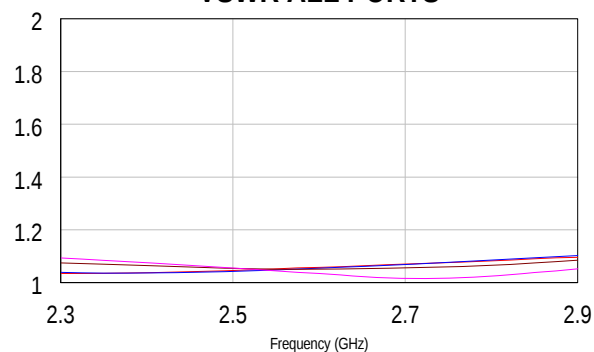
INSERTION LOSS



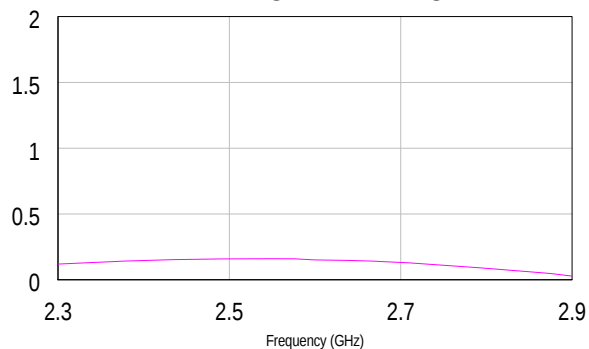
ISOLATION



VSWR ALL PORTS



AMPLITUDE BALANCE



PHASE ERROR

