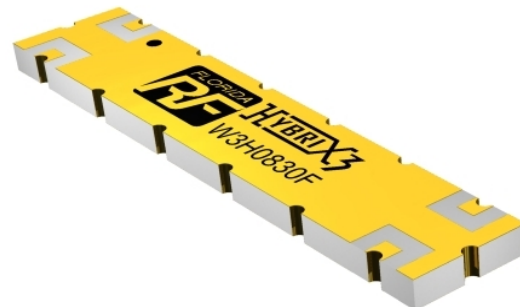


FEATURES

- Low Profile Surface Mount Package
- Wide Operating Bandwidth
- High Power
- Low Case Junction Resistance
- Low Insertion Loss
- Excellent Amplitude and Phase Balance
- 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
800 to 3000 MHz	18 dB Min	0.5 dB Max	1.3 Max	0.7 dB Max	90° ± 3	100 Watts CW

2.0 MECHANICAL

Operating Temperature: -25 °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

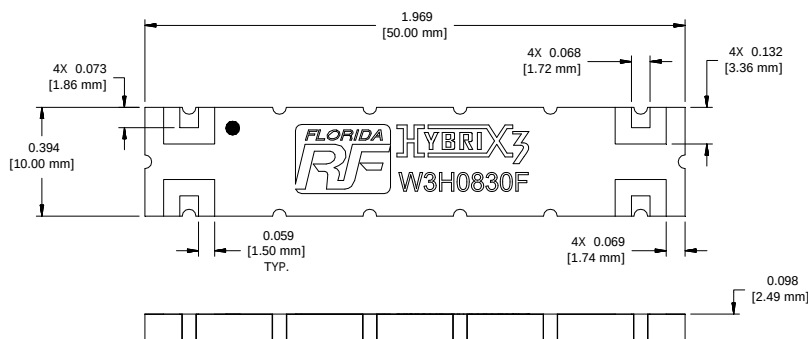
Part Identifier: W3H0830F

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

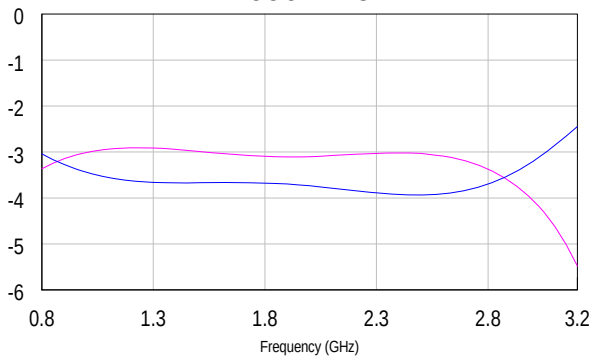


Note: Specifications are subject to change without notice.

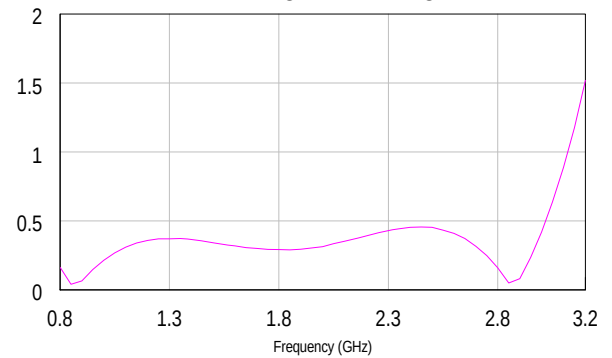
Unless Otherwise Specified: TOLERANCE: .XXX = ± .010

6.0 TYPICAL PERFORMANCE AT 25 °C

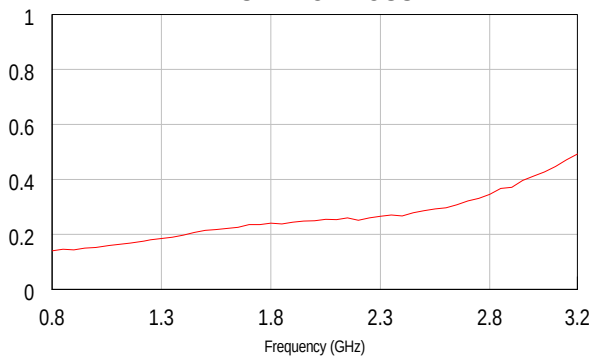
COUPLING



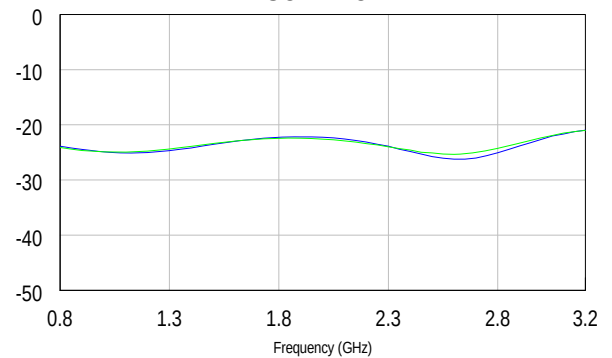
AMPLITUDE BALANCE



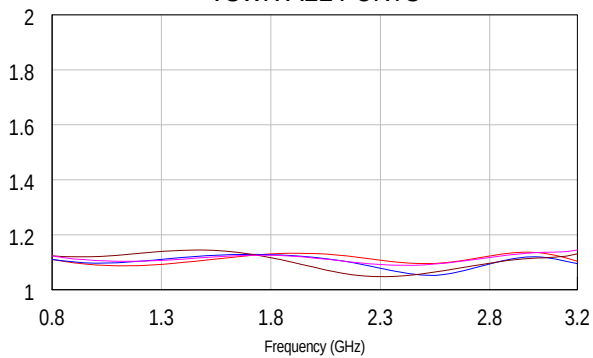
INSERTION LOSS



ISOLATION



VSWR ALL PORTS



PHASE BALANCE

