

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
2110 to 2170 MHz	26 dB Min	0.17 dB Max	1.12 Max	± 0.10 dB Max	90° ± 2.0	110 Watts CW
2000 to 2300 MHz	23 dB Min	0.22 dB Max	1.15 Max	± 0.22 dB Max	90° ± 3.0	110 Watts CW
2300 to 2400 MHz	28 dB Min	0.25 dB Max	1.25 Max	± 0.25 dB Max	90° ± 3.0	110 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)
- Thermal Resistance: 23.2 θ_{JC} °C/Watt

3.0 UNIT MARKING

Logo, Part Number and Pin 1 Identification

4.0 PACKAGING

Standard: Tape And Reel

5.0 PART NUMBERING

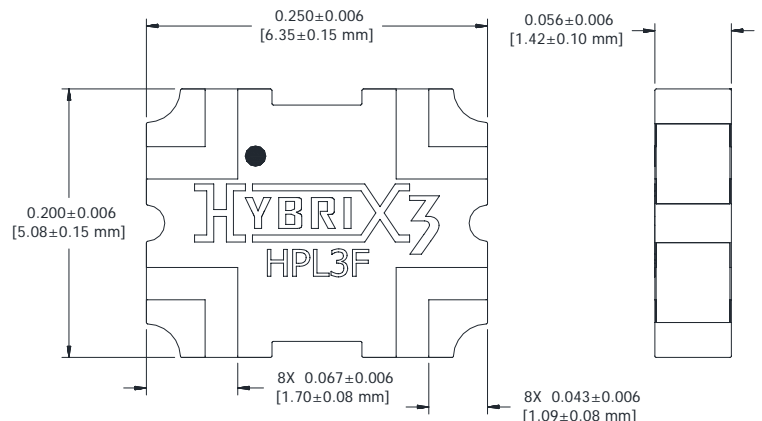
Part Identifier: HPL3F

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

