

FEATURES

- Low Profile Surface Mount Package
- High Power
- Low Insertion Loss
- RoHS Compliant
- Tape and Reel available for High Volume Production

GENERAL DESCRIPTION

The DCDK3F is a high performance Doherty combiner in a surface mount package. This low profile Doherty combiner handles up to 200 watts of CW power. The DCDK3F provides a size reduction compared to Microstrip PCB solutions while maintaining a good insertion loss and amplitude balance.

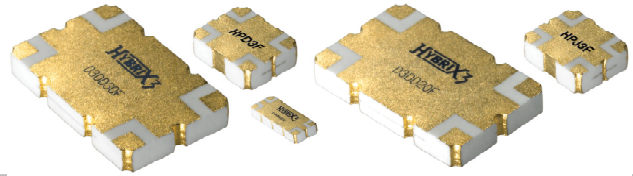
The DCDK3F is manufactured with materials that have thermal expansion characteristics compatible with industry standard board materials like RO3003, RO4350, FR4 and others. The couplers are available in a RoHS compliant finish and packaged in tape and reel.

ELECTRICAL SPECIFICATIONS*

| Frequency MHz | Insertion Loss dB (max) | Amplitude Balance (dB) | Return Loss dB (min) | Power Handling Watts CW | Operating Temperature °C |
|---------------|-------------------------|------------------------|----------------------|-------------------------|--------------------------|
| 1800-2300 | 0.2 | +/-0.3 | 20 | 200 | -55 to +125 |

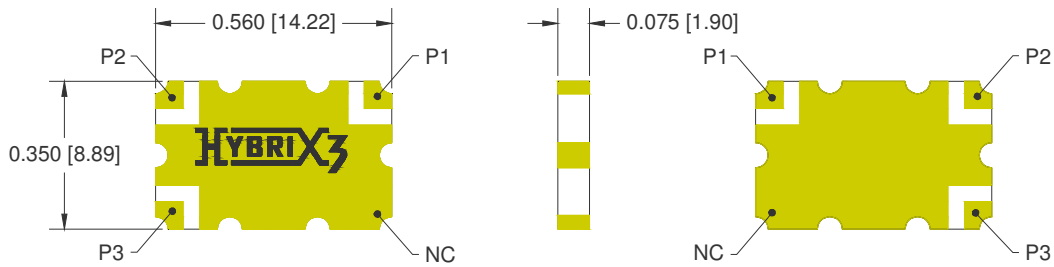
Specification Notes:

* Measured on Florida RF Labs test fixture. Specifications are subject to change without notice.



COUPLER PIN CONFIGURATION AND MECHANICAL OUTLINE

| | P1 | P2 | P3 |
|-------|---------|------|-----|
| PORTS | CARRIER | PEAK | OUT |



APPLICATION SCHEMATIC

