

## C-BAND LOW NOISE AMPLIFIER

Model LNA-45Deg-LF

### ELECTRICAL SPECIFICATION

- 1) Frequency : 3.4 to 4.2 GHz
- 2) Bandwidth : 800 MHz
- 3) Gain : 52.5 +/- 3.5 dB (over temp & freq)
- 4) Out of Band Gain : 0 dB @ 5.925 - 6.425 GHz
- 5) Gain Flatness : 2 dBp-p max @ 800 MHz band
- 6) Gain Slope : 1 dBp-p max @ any 36 MHz
- 7) Noise Temperature : 45 K max @ +25°C
- 8) Input Return Loss : 5 dB min. (w/o Isolator)
- 9) Output Impedence : 50 Ω nominal
- 10) Output Return Loss : 10 dB min.
- 11) 1dB Gain Compression Point : 0 dBm min.
- 12) Input DC Voltage : +10 to +18V
- 13) DC Current : 120 mA max.

### MECHANICAL SPECIFICATION

- 1) Input Flange : CPR-229G
- 2) Output Connector : Type N, Female
- 3) Input DC Power : Through Output Connector
- 4) Size : approx 65 x 140 x 40 (mm)
- 5) Weight : 430g approx.
- 6) Color : White, Munsell N9.5 semi-gloss
- 7) Marking (Label) : Label Artwork TBD

### ENVIRONMENTAL SPECIFICATION

#### OPERATING ENVIRONMENT

- 1) Temperature : -40 to +55°C
- 2) Relative Humidity : Up to 100% including condensation and frost
- 3) Rainfall : 4.00 inch/hour with wind speed 45 miles/hour, gusts to 60 miles/hour

#### NON OPERATING ENVIRONMENT

- 1) Temperature : -40 to +55°C
- 2) Relative Humidity : Up to 100% including condensation and frost

#### RoHS COMPLIANCE

This product does not contain any of the restricted substances referred to in the European Union Directive 2002/95/EC of the European Parliament.

