

# 35 – 36 GHz FMCW Transceiver

- Transmit Path:
  - RF Frequency: 35.0 GHz to 36.0
  - Output Power: +10 dBm Minimum
  - Phase Noise: < 116 dBc @ 1MHz offset
- Receive Path:
  - RF Frequency: 35.0 GHz to 36.0 GHz
  - Gain: 20 dB min
  - Gain Flatness over a 200 MHz Bandwidth:  $\pm 0.5$  dB
  - Noise Figure: 5.0 dB Max
  - Input P1 dB: -5 dBm Min
- General Feed Specifications:
  - VSWR In/Out Typical: 1.5:1
  - DC Power Requirement: +12 V<sub>DC</sub>, 1.4 Amps
  - Package Dimension: 3.5" X 5.0" X 1.0"
  - Environmental: Typical Military Environment

