**X-Band Transmit/ Receive (T/ R) Subsystem**

- **Transmit Path:**
  - RF Frequency: 9.5 - 10 GHz
  - Output Power (Per T/R module):
    - +38 dBm Minimum
    - +40 dBm Typical
  - Input Power: +14 dBm Min
  - Transmit Pulse Width: ≤ 15 µsec
  - Transmit Duty Cycle: ≤ 15%
  - TX Amplitude Matched: ± 0.5 dB
  - TX Phase Matched: ± 2.5°
  - Pulse Flatness: ≤ .4 dB
  - TX Detect Rise/Fall Times Typical: ≤ 60 nanoseconds

- **Receive Path:**
  - RF Frequency: 9.5 GHz to 10. GHz
  - Single Channel Gain: 1.2 ± 1.5 dB min
  - Gain Flatness (200 MHz Bandwidth): ± 0.5 dB
  - Single Channel Noise Figure: 6.0 dB Max
  - Input P1 dB: -4 dBm Min
  - Gain Matched ± 0.5 dB
  - Phase Matched ± 2.5°
  - Maximum Input Power: 1 Watt CW