



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 μ sec
 - Transmit Duty Cycle: 15%
 - TX Amplitude Matched: ± 0.5 dB
 - TX Phase Matched: $\pm 2.5^\circ$
 - 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 $\pm 2.5^\circ$
 - Maximum Input Power: 1 Watt CW

