

4. Particulars of Operation:

- (A) Frequency 5950-6550 Mhz
- (B) Power 1 W peak @terminals
- (C) ERP 1W (omni-directional patch antenna)
- (D) Peak

note: Full Bandwidth Average Power $(1\text{W} \times 2\text{ns} \times 120 \text{ pulses})/1\text{sec} = .24$ microwatts or in a 1 MHz resolution BW $(.240/400) = .600\text{nanowatts}$

- (E) Ultra Wideband (UWB)
- (F) 2 nanosecond pulses at 120 Hz (120 bits transmitted every second at a 1Mb/sec burst rate yielding a 120 microsecond packet duration)
- (G) 400,000KHz - determined as UWB instantaneous BW.

The following spectrum plot, for reference, is from a radiated measurement using:

Agilent E4407B spectrum analyzer

ARA DRG-118/A horn antenna

6 ft coax (Times Microwave SF142B)

