

Sarnoff Corporation

Particulars of Operation

4. Particulars of Operation:

(A) Frequency - 5900 -6400 MHz

(B) Power - 1.5 Watts @ terminals

(C) ERP - 1.5 Watts (omni-directional patch antenna)

(D) Peak

note: Full Bandwidth Average Power $(1.5W \times 2 \text{ nS} \times 72 \text{ pulses})/1 \text{ sec} = 0.216$ microwatts or in a 1 MHz resolution BW $(0.216/500) = 0.432$ nanowatts

(E) Ultra Wideband (UWB)

(F) 2 nanosecond pulses at 72 Hz (72 bits transmitted every second at a 1 Mb/sec burst rate yielding a 72 microsecond packet duration)

(G) 500,000 KHz

-determined as UWB instantaneous BW

The following spectrum plot, for reference, is a conducted measurement.

