

Maximum Permissible Exposure

RF Exposure Limit

RF exposure SAR evaluation as its output power meets the 1-mW test exemption threshold stated in the Code of Federal Regulation title 47 section 1.1307(b)(3)(i)(A) and 1.1307(b)(3)(ii)(A).

UWB Part :

EIRP measurement value : -41.3 dBm/MHz = 0.000 07 mW/MHz.

UWB Bandwidth = 527.23 MHz

$0.000\ 07\ (\text{mW/MHz}) \times 527.23\ (\text{MHz}) = 0.039\ 08\ (\text{mW})$

DSC Part :

Field strength value : 77.20 dB μ V/m @ 3 m

= -18.00 dBm = 0.015 85 mW

$\therefore 0.039\ 08\ \text{mW} + 0.015\ 84\ \text{mW} = 0.054\ 92\ \text{mW} < \underline{\underline{1\ \text{mW}}}$

UWB Power Density

$[(0.039\ 08 / 5.00)] \times [\sqrt{7.987\ 2}] = 0.022\ 09\ \text{mW/cm}^2$

DSC Power Density

$[(0.055\ 14 / 5.00)] \times [\sqrt{0.433\ 92}] = 0.002\ 09\ \text{mW/cm}^2$