

SPB820P MPE Limit Calculation

Equation from OET Bulletin 65, Edition 97-01

$$S = \frac{PG}{4\pi R^2}$$

where: S = power density

P = power input to the antenna

G = power gain of the antenna in the direction of interest relative to an isotropic radiator

R = distance to the center of radiation of the antenna

Maximum peak output power at device output terminal:	22,4 dBm
Cable and Jumper loss:	0,00 dB
Maximum peak output power at antenna input terminal:	22,4 dBm
	173,7800829 mW
Single Antenna gain (typical):	3,50 dBi
Number of Antennae:	1
Total Antenna gain (typical):	3,50 dBi
	2,238721139 (numeric)
Prediction distance:	20 cm
Prediction frequency:	2437 MHz
MPE limit for uncontrolled exposure at prediction frequency:	1 mW/cm ²
Power density at prediction frequency: 0.008123 mW/cm ²	0,077398 mW/cm ²
	0,773981 W/m ²
Tx On time:	1,00 ms
Tx period time:	1,00 ms
Average Factor:	100%
Average Power density at prediction frequency:	0,773981 W/m ²
Gain at limit:	14,61269855 dBi
Margin of Compliance:	11,11 dB