## CLOBA CO S A TANK EMC C 110 S

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## Prediction of MPE limit at a given distance

Equation from page 18 of 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 antenna input terminal: 17.00 (dBm)

Maximum peak output power at antenna input terminal: 50.11872336 (mW)

Antenna gain(typical): 8 (dBi)

Maximum antenna gain: 6.309573445 (numeric)

Time Averaging: 100 (%)

Prediction distance: 20 (cm)
Prediction frequency: 2450 (MHz)

MPE limit for uncontrolled exposure at prediction frequency: 1 (mW/cm^2)

Power density at prediction frequency: 0.062912 (mW/cm^2)

Margin of compliance: -12.0 (dB)

This equates to 0.629115151 W/m^2