

**Annex acc. to FCC Title 47 CFR Part 15
relating to
VALIDFILL
VF POS Puck**

Annex no. 11 RF exposure

**Title 47 - Telecommunication
Part 15 - Radio Frequency Devices
Subpart C – Intentional Radiators
ANSI C63.4-2014
ANSI C63.10-2013**



Deutsche
Akkreditierungsstelle
D-PL-12053-01-00

Radio frequency hazard

Regulation

15.247(i) Systems operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy levels in excess of the Commission's guidelines.

Test result

MPE calculation to the FCC ID: ODB-PS000SA011

These equations are generally accurate in the far field of an antenna but will over predict power density in the near field, where they could be used for making a "worst case" prediction.

$$S = PG/4\pi R^2 \quad \text{or} \quad S = \text{EIRP} / (4\pi R^2)$$

Where

S = power density (in appropriate units, e.g. mW/cm²)

P = power input to the antenna (in appropriate units e.g. mW)

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

R = distance to the center of radiation of the antenna (appropriate units e.g. cm)

EIRP = equivalent isotropically radiated power

Calculation:

Radio frequency hazard					
Max. EIRP		Distance	Calculated Power Density	Limit	Margin
dBm	mW	cm	mW / cm ²	mW / cm ²	mW / cm ²
23.05	201.93	20	0.04017	0.601	0.5593
*Limit: the reference level for general public exposure according to the OET Bulletin 65, edition 97-01 Table 1.					