

RF EXPOSURE COMPLIANCE

The calculated output power of the EUT is as follows:

$$P = (E \cdot D)^2 / (30 \cdot G)$$

P= watts

E=Volts/meter

D=Distance in meters

G=Antenna gain (numeric)

Measured output FS = 93.6 dBuV/m @ 3 meters or 47,863 uV/m or 0.04786 Volts / meter

$$P = (0.04786 \cdot 3)^2 / 30 \cdot 1$$

$$P = 0.0206 / 30$$

$$P = 0.000687 \text{ watts}$$

For this wrist worn device, the distance between the transmitter and the tissue is effectively (1.5) mm. The following calculation is from FCC KDB447498 (4.3.1.1):

Frequency = 2.44 GHz

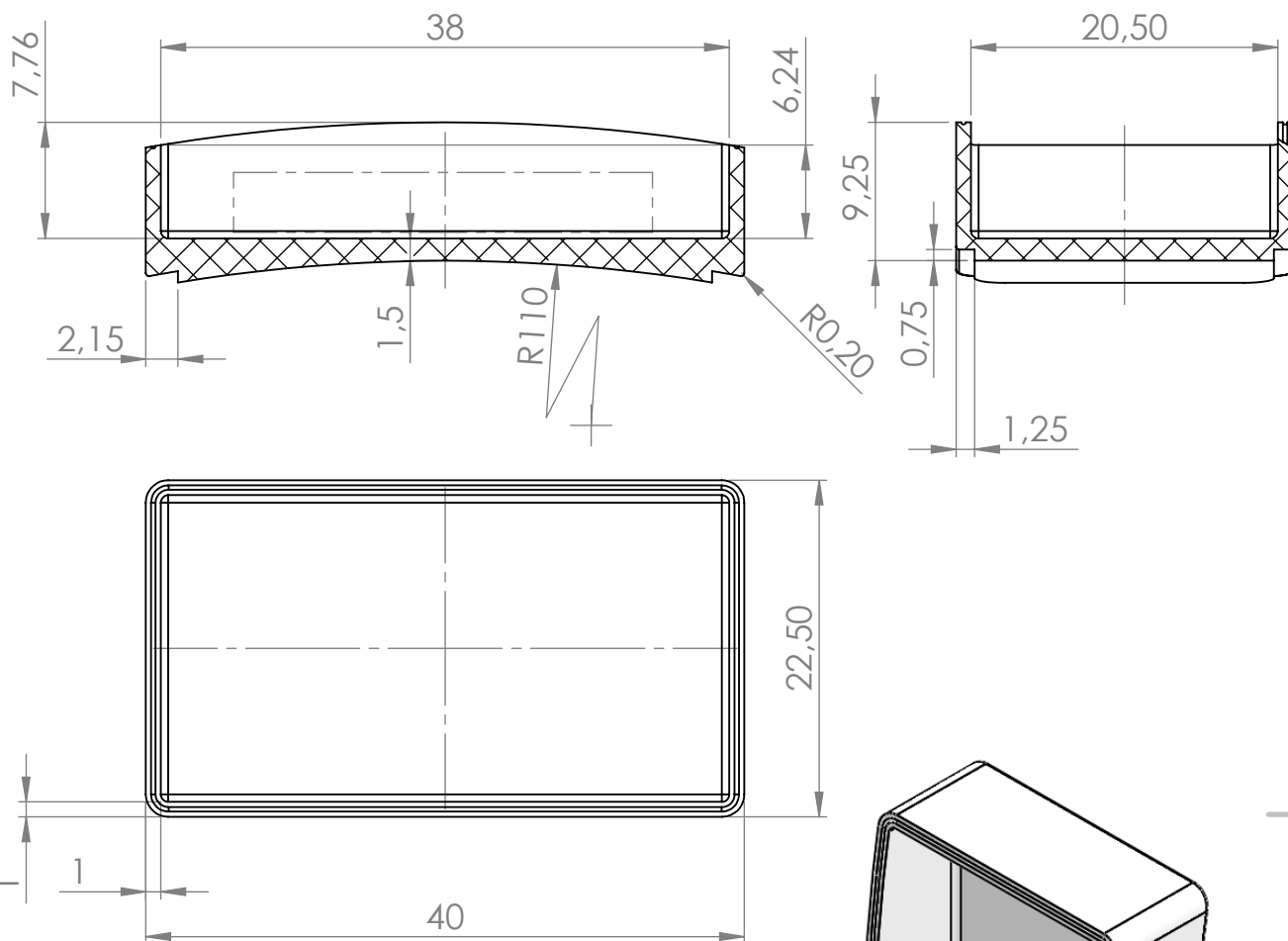
Power = 0.687 milliwatts

Distance = 1.5 millimeters

$$((\text{power in mW} / \text{distance in mm}) \cdot \text{Square root of frequency in GHz}) \leq 3$$

$$(0.687 / 1.5) \cdot \text{SQRT } 2.44 \leq 3$$

$$(0.458) \cdot 1.562 = (0.7153)$$



- UNLESS OTHERWISE SPECIFIED:
1. DIMENSIONS ARE IN MM
 2. TOLERANCES
0.00 TO 3.00 ± 0.08 3.00 TO 6.00 ± 0.10
6.00 TO 18.00 ± 0.13 18.00 TO 30.00 ± 0.15
30.00 TO 50.00 ± 0.18 50.00 TO 80.00 ± 0.23
80.00 TO 117.50 ± 0.28 117.50 TO 180.00 ± 0.33
180.00 TO 250.00 ± 0.36 250.00 TO 315.00 ± 0.38
 3. SEE 3D CAD FILE FOR COMPLETE SHAPE DETAILS.

UNLESS OTHERWISE SPECIFIED:
DIMENSIONS ARE IN MILLIMETERS
SURFACE FINISH:
TOLERANCES:
LINEAR:
ANGULAR:

FINISH:

DEBURR AND
BREAK SHARP
EDGES

DO NOT SCALE DRAWING

REVISION

4

	NAME	SIGNATURE	DATE		
DRAWN					
CHK'D					
APPV'D					
MFG					
Q.A					

MATERIAL:

ABS

WEIGHT: 2.61

TITLE:

Housing

DWG NO.

WB_ver1-Housing_

A4

SCALE:2:1

SHEET 1 OF 1