

2.4GHz Antenna Datasheet

16th of January, 2024

Kaunas

Manufacturer:

TELTONIKA NETWORKS, UAB

Manufacturer Address:

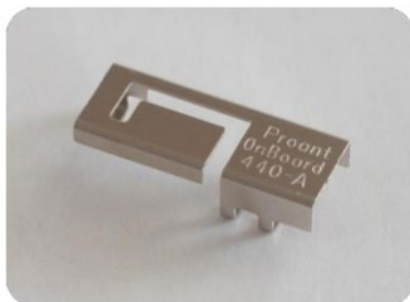
K. Barsausko st. 66, LT-51436, Kaunas, Lithuania

Product Name:

TAP200 2.4GHz Antenna

General information

The OnBoard SMD 2400 antenna is a combination of small size, low cost and high performance, suitable for applications within the 2.4 GHz ISM band.

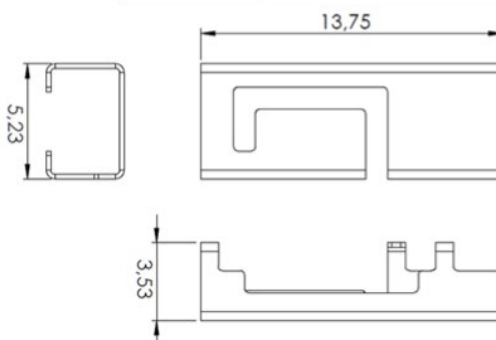


Technical data

Frequency	2400 - 2500 MHz
Impedance	50 Ω
Return loss*	< -6.9 dB
Total efficiency*	> -1.9 dB (65%)
Gain*	Max 4.9 dBi
Dimensions (LxWxH)	13.75 x 5.23 x 3.53 mm (0.541 x 0.206 x 0.139 in)
RoHS status	Compliant with EU directive 2011/65/EU and 2015/863
Shelf life	10 years
MSL	Level 1, unlimited
Mechanical resistance	Immunity to vibrations IEC/EN 60068-2-6, Fc test Immunity to shock IEC/EN 60068-2-27, Ea test

Applications

IoT-devices
M2M-communications
Telemetry
Automated meter reading
Alarms



Antenna drawing. Above dimensions are given in millimeter.

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Kaunas, Lithuania

Registration code 305579419
VAT number LT100013223510

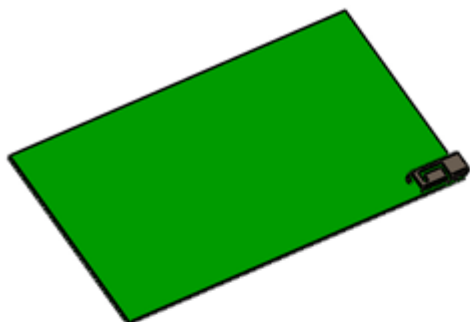
Swedbank AB
LT78 7300 0101 6274 0111
S.W.I.F.T. HABALT22

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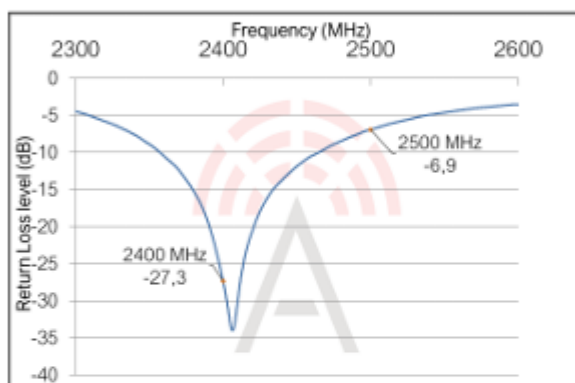
Electrical performance

Measurement setup

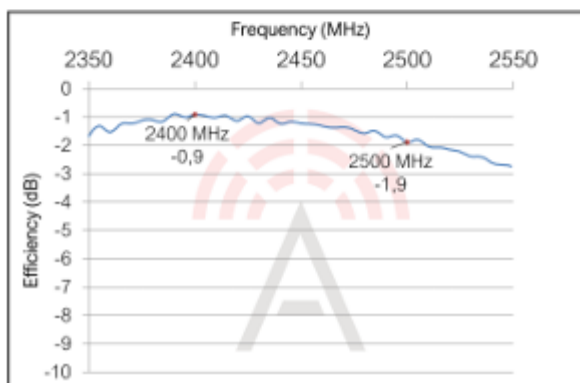


The antenna measurements were done with the OnBoard SMD 2400 evaluation board (PRO-EB-450, 100 x 50 mm) - measured in free space.

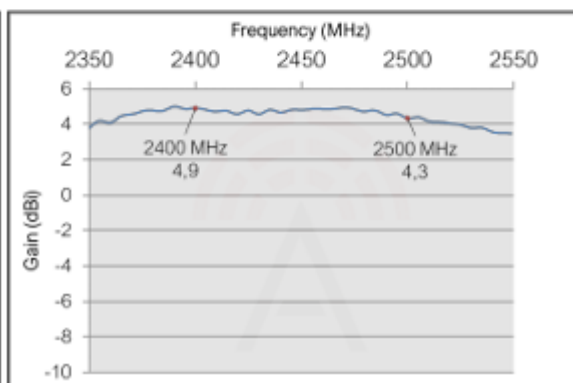
Return loss



Total radiation efficiency



Maximum radiation gain



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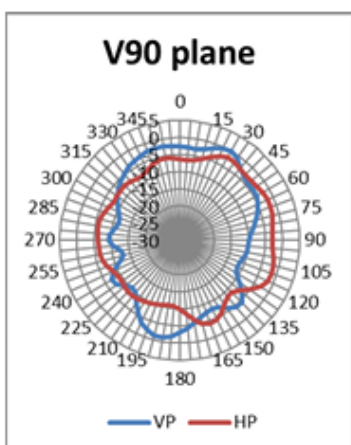
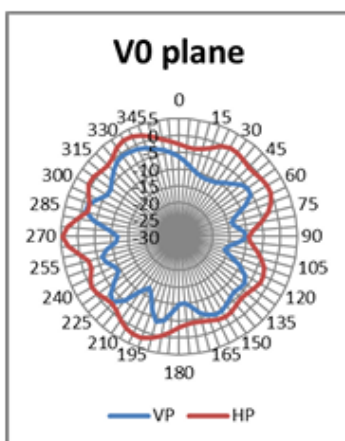
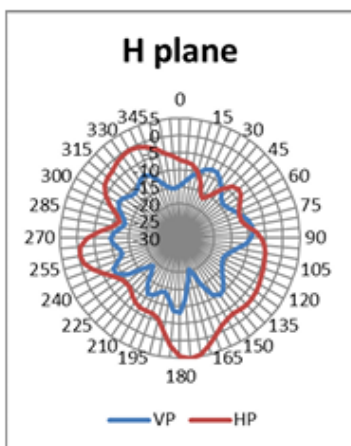
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Radiation pattern, 2400 MHz



Board rotation



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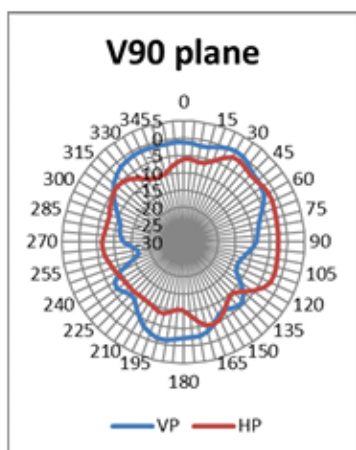
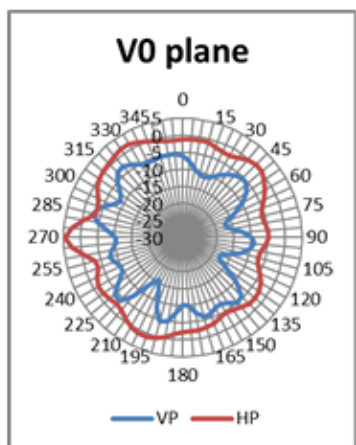
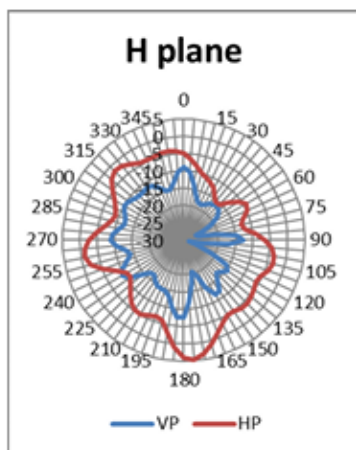
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Radiation pattern, 2500 MHz



Board rotation



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