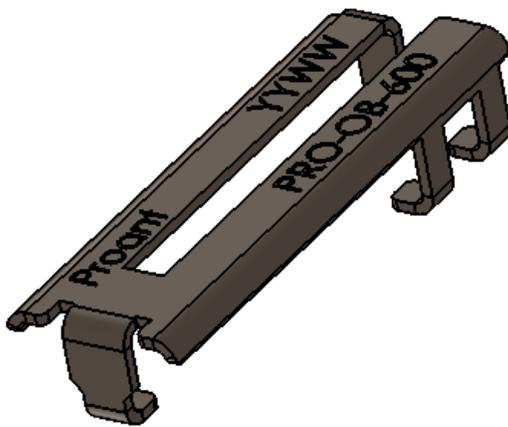


General information

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

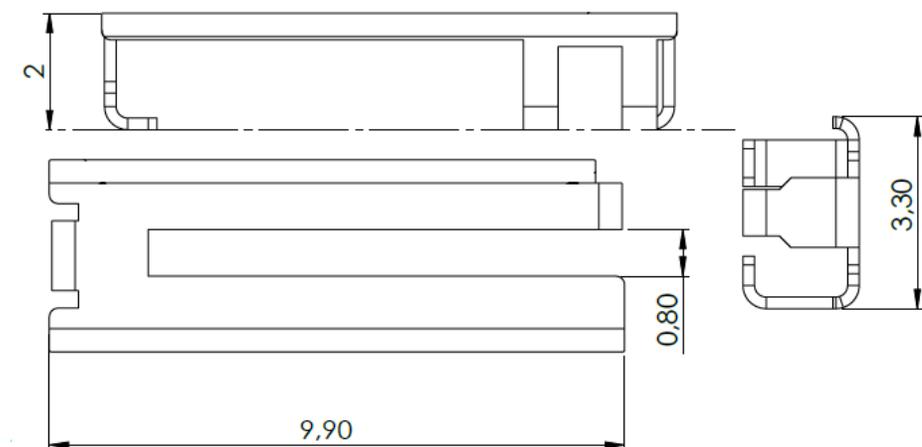


Technical data

Frequency	2400 - 2500 MHz
Impedance	50 Ω
Return loss*	< -3.9 dB
Total efficiency*	> -5.3 dB
Dimensions (LxWxH)	9.9 x 3.3 x 2.0 mm (0.39 x 0.13 x 0.08 in)
RoHS status	Compliant with EU directive 2011/65/EU and 2015/863
Shelf life	10 years
MSL	Level 1, unlimited

Applications

- IoT-devices
- M2M-communications
- Telemetry
- Automated meter reading
- Alarms



Antenna drawing. Above dimensions are given in millimeter.

*Estimated within simulation stage on a 47x17mm PCB, footprint included.

Intended applications

The antenna is optimized for the ISM band of 2.4 GHz, which is utilized by several protocols. Some of the applications are:

WLAN/Wifi	IEEE 802.11 (b, g, n)	2400 - 2497 MHz
Bluetooth	IEEE 802.15.1	2400 - 2483.5 MHz
ZigBee	IEEE 802.15.4	2400 - 2483.5 MHz
RFID	ISO/IEC 18000	2450 MHz
WirelessHART	IEEE 802.15.4	2400 - 2483.5 MHz

Ordering information

Part number	Part name	Details
PRO-OB-600	OnBoard SMD 2400 mini	Antenna for 2.4 GHz ISM band.

For information on sales, delivery terms and conditions and prices, please visit the Proant website (www.proant.se) for a complete list of distributors.

Proant offers consultation with design-in of the OnBoard SMD antennas. Proant have all necessary capabilities for antenna design including anechoic chamber and prototype workshop. Please send your requests to info@proant.se.

Disclaimer

The information given in this application note shall in no event be regarded as a guarantee of conditions or characteristics. With respect to any examples or hints given herein, any typical values stated herein and/or any information regarding the application of the device, Proant AB hereby disclaims any and all warranties and liabilities of any kind, including without limitation, warranties of non-infringement of intellectual property rights of any third party.