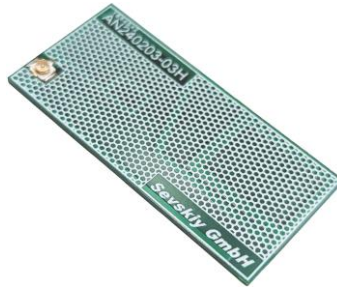


750 MHz / 960 MHz / 2.45 GHz PCB Antenna (ISM, IoT, Bluetooth, Wi-Fi 2.4 GHz, 5G, LTE)



General information

This small antenna is intended to be used within a plastic housing of a mobile device, a terminal or a router. On request, the antenna geometry can be optimized for customer's housing design or other requirements.

Typical applications

ISM, RFID, IoT (Sigfox, LoRa, NB-IoT), LP-WAN, Smart meters, Bluetooth, Wi-Fi 2.4 GHz, 5G NR, LTE

Electrical data

Antenna type	Embedded / internal PCB antenna	
5G bands	5, 13, 14, 18, 20, 26, 53, 81, 82, 89	
4G bands	5, 6, 8, 13, 14, 18 - 20, 26, 27, 53	
Other frequency bands	SRD860 (EU), ISM915 (US), ISM2400	
Frequency range [MHz]	750...960	2410...2485
Return loss [dB]	-8	-11
Peak gain [dBi]	0.6	2.4
Radiation efficiency [%]	62	73
Nominal input impedance [Ohm]	50	
Polarization	linear	
Radiation pattern	omnidirectional	
Maximum input power [W]	10	

Mechanical data

Antenna PCB dimensions [mm]	42 x 20 x 1
Connector type ¹⁾	IPEX MHF1 / Hirose U.FL (UMCC) compatible ¹⁾
Cable type and thickness ²⁾ [mm]	micro coax 1.13 ²⁾
Cable length ³⁾ [mm]	200 ³⁾
PCB material	FR4

Environmental data

Operating temperature [°C]	-40...+85
Storage temperature [°C]	-40...+85
Ambient relative humidity [%]	0...95
RoHS / REACH compliant	yes / yes

Additional information

¹⁾ Other connector types can be offered on request.

²⁾ Following cable thicknesses can be used with MHF1 connector: 0.81 mm, 1.13 mm, 1.32 mm, 1.37 mm.

³⁾ Recommended length. Cable is not included, but can be customized and provided separately.

Antenna performance was measured using the recommended cable length in free space.

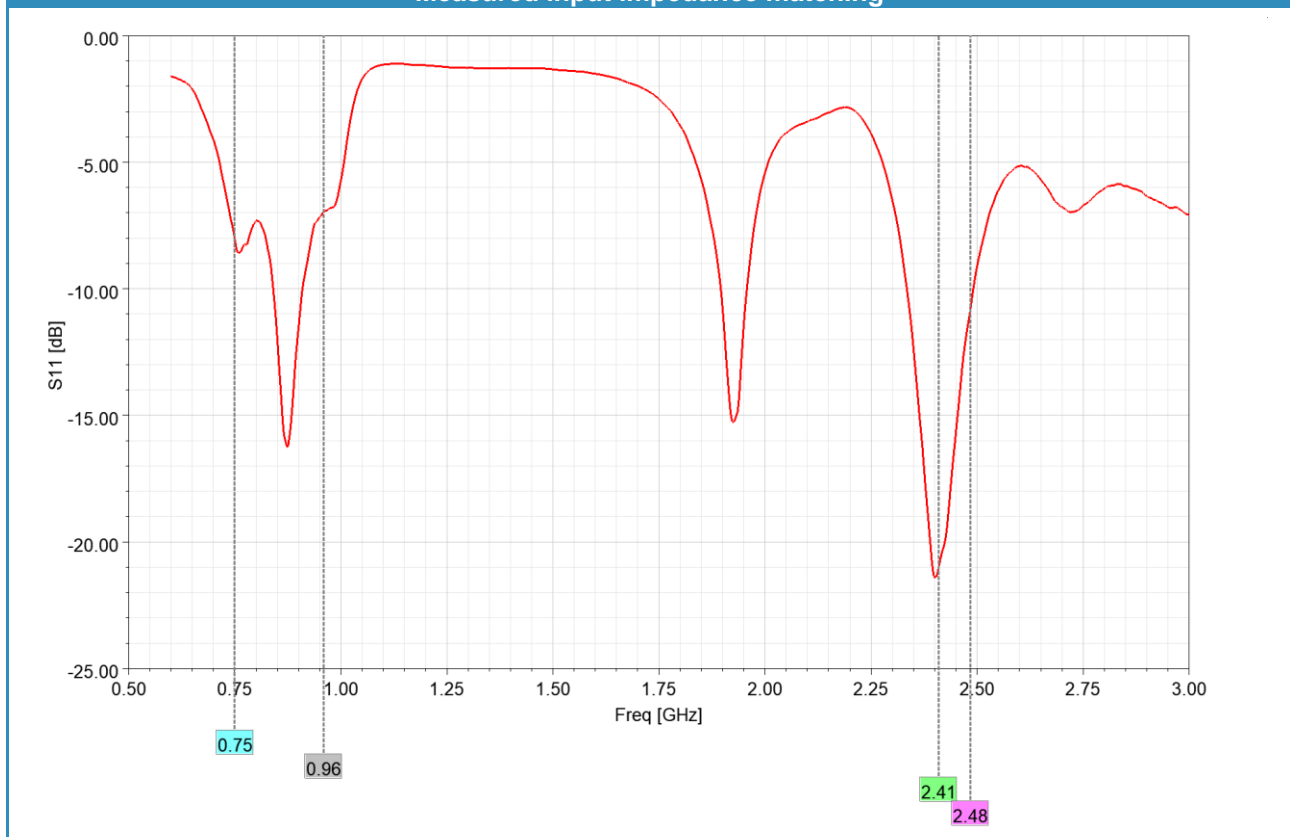
Further customization, electromagnetic simulations and measurements can be offered on request.

The antenna can be additionally equipped with adhesive tape and mounting holes.

All information (including technical data and pictures) presented in this document is typical and subject to change without notice. Sevskiy is a registered trade mark of Sevskiy GmbH. Copyright © 2009 - 2023 Sevskiy GmbH. All rights reserved. No warranties.

750 MHz / 960 MHz / 2.45 GHz PCB Antenna (ISM, IoT, Bluetooth, Wi-Fi 2.4 GHz, 5G, LTE)

Measured input impedance matching



All information (including technical data and pictures) presented in this document is typical and subject to change without notice. Sevskiy is a registered trade mark of Sevskiy GmbH. Copyright © 2009 - 2023 Sevskiy GmbH. All rights reserved. No warranties.