



DATASHEET

BT WLAN ANTENNA PART NUMBER 920-584-003 A 177 905 29 02

BT WLAN ANTENNA

FEATURES

- Interior Antenna with Plastic Clip

BT WLAN ANTENNA

BT WLAN ANTENNA / PART NUMBER 920-584-003

TECHNICAL DATA

Dimensions	ca. 58mm x 38mm x 13mm
Weight	16 g
Temperature range	Operations: -40°C – +85°C Storage: -40°C – +90°C
Housing materials	PA66 black
Protection class	IP5kO (acc. EN60529)
Connector	Fakra male, Code K (Curry)

BT/WLAN

Frequency bands	2400-2500 MHz 5150-5835 MHz
Return loss	> 7 dB
VSWR	< 2.6
Impedance	50 Ω
Average gain* (0=50-90°)	>-2 dBi
Peak gain*	2400-2500 MHz: 0.1 dBi 5150-5835 MHz: 5.1 dBi
Radiation efficiency**	2400-2500 MHz: > 40% 5150-5835 MHz: > 50%
Diagnostic Resistor	51 kΩ

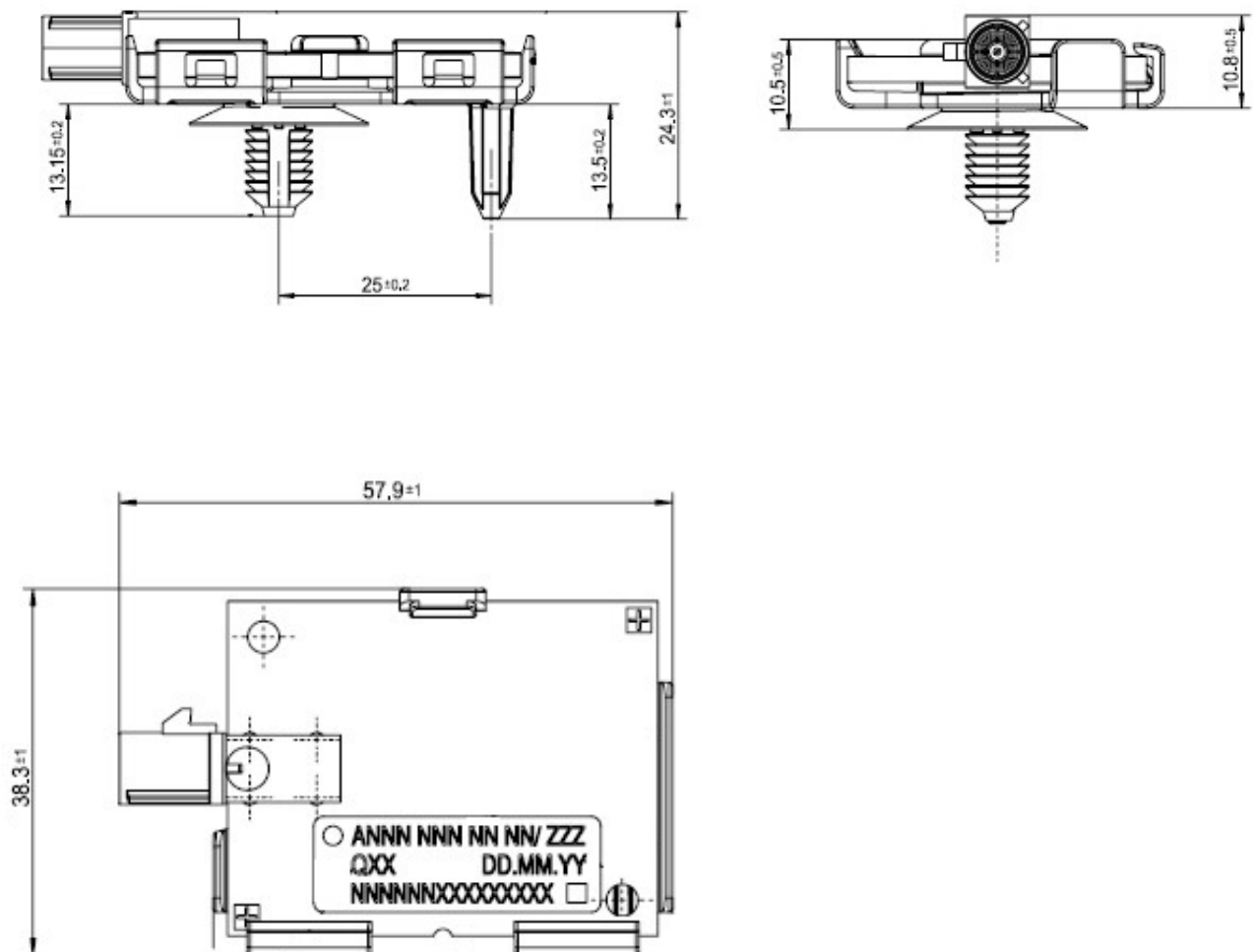
* Measured on dielectric slab

** including Filtering

BT WLAN ANTENNA

BT WLAN ANTENNA / PART NUMBER 920-584-003

TECHNICAL DRAWING

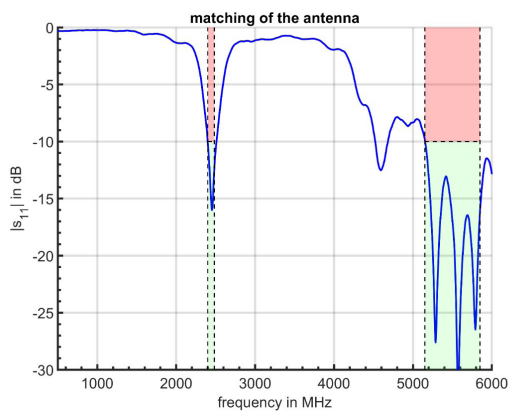


BT WLAN ANTENNA

BT WLAN ANTENNA / PART NUMBER 920-584-003

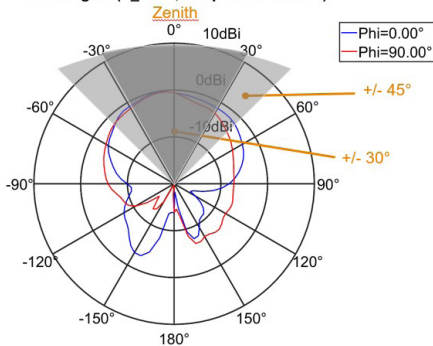
ANTENNA DIAGRAMS

S11 - Parameter

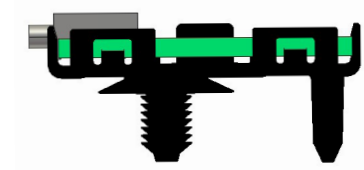


Polar Plots | 2400 MHz

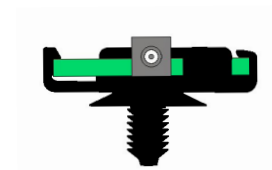
radiation pattern of the antenna (elevation cut)
realized gain (E_Total, Freq = 2400.00 MHz)



Phi = 0°

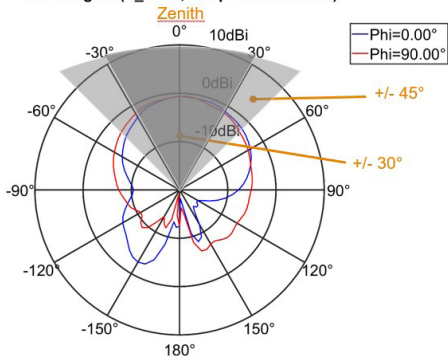


Phi = 90°



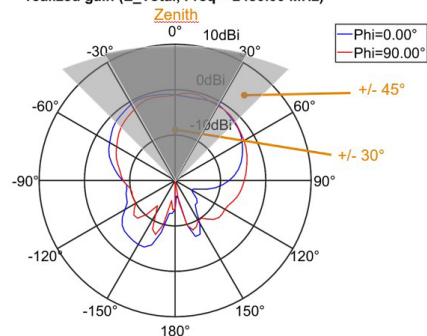
Polar Plots | 2440 MHz

radiation pattern of the antenna (elevation cut)
realized gain (E_Total, Freq = 2440.00 MHz)



Polar Plots | 2480 MHz

radiation pattern of the antenna (elevation cut)
realized gain (E_Total, Freq = 2480.00 MHz)

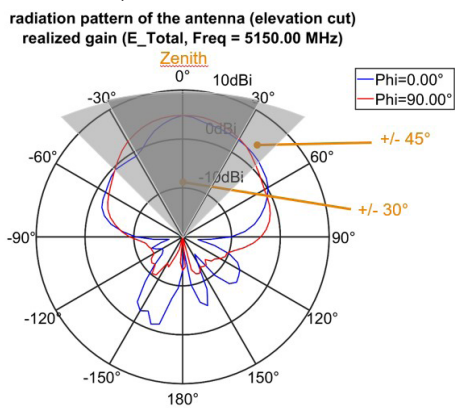


BT WLAN ANTENNA

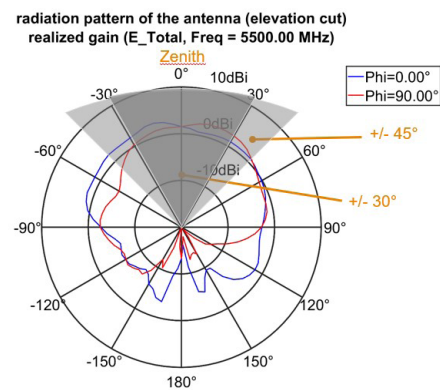
BT WLAN ANTENNA / PART NUMBER 920-584-003

ANTENNA DIAGRAMS

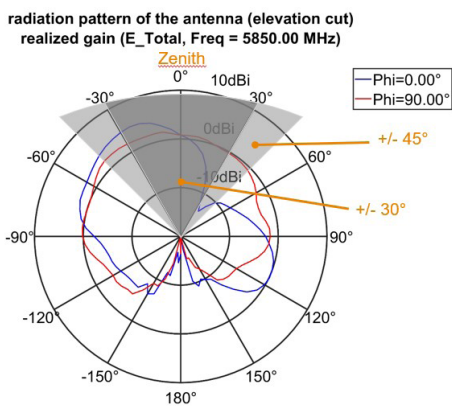
Polar Plots | 5150 MHz



Polar Plots | 5500 MHz



Polar Plots | 5850 MHz

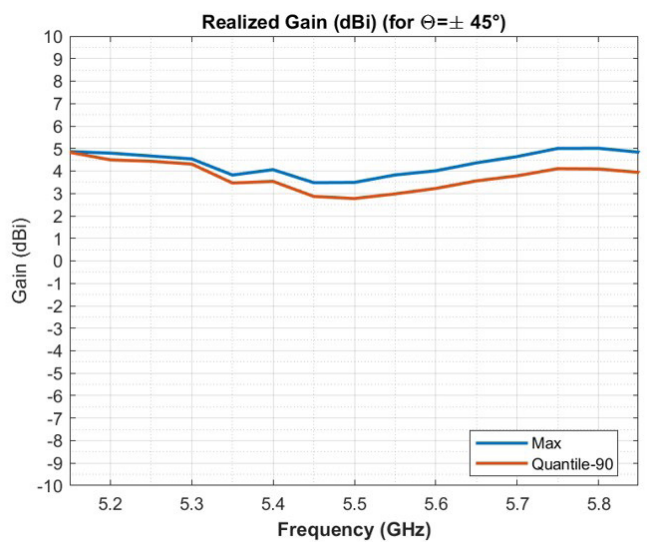
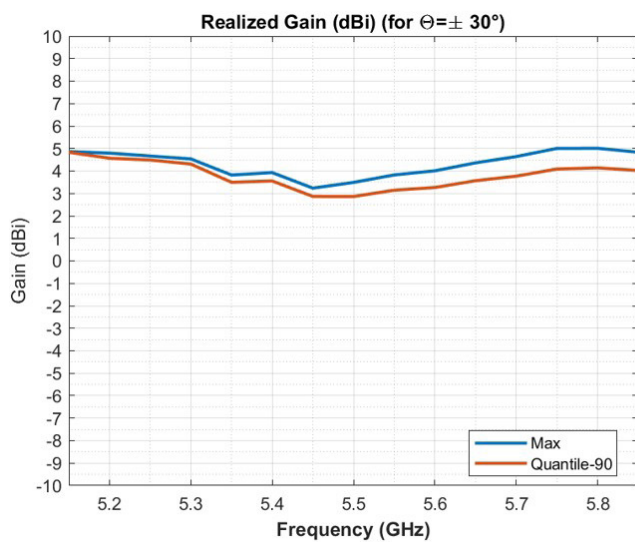
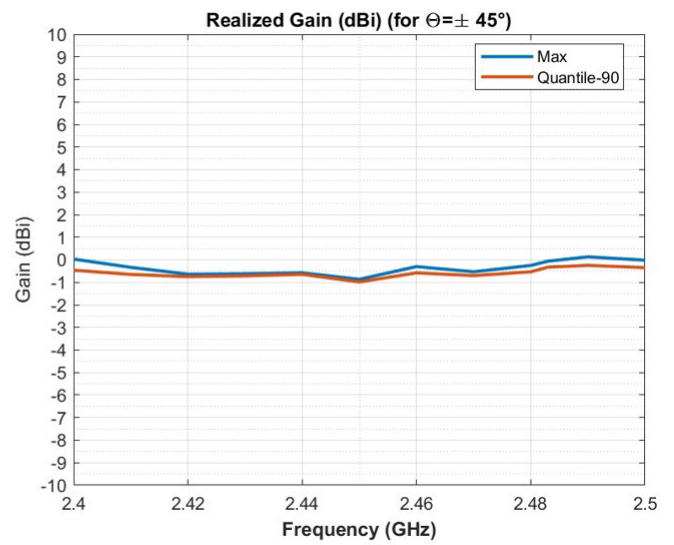
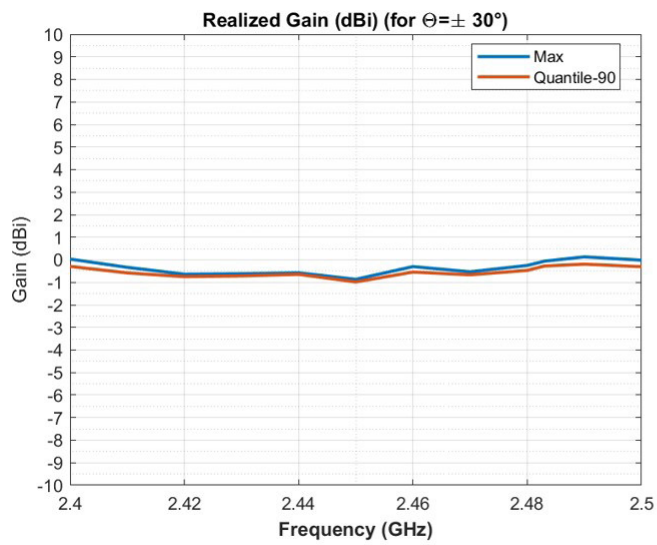


BT WLAN ANTENNA

BT WLAN ANTENNA / PART NUMBER 920-584-003

ANTENNA DIAGRAMS

Gain over Frequency

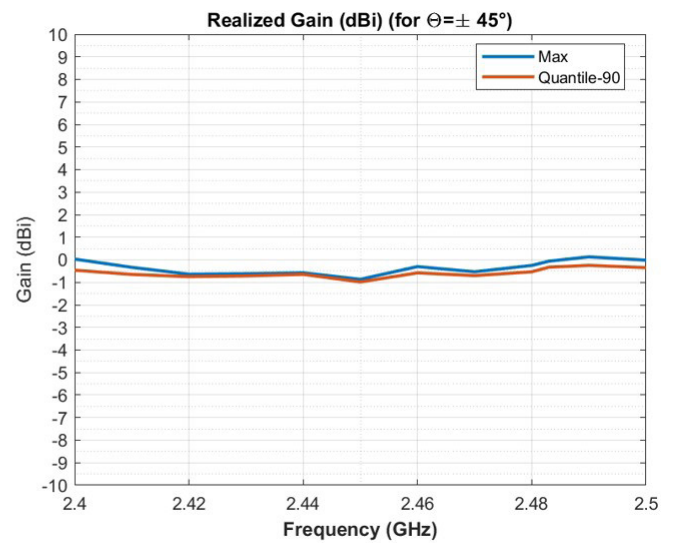
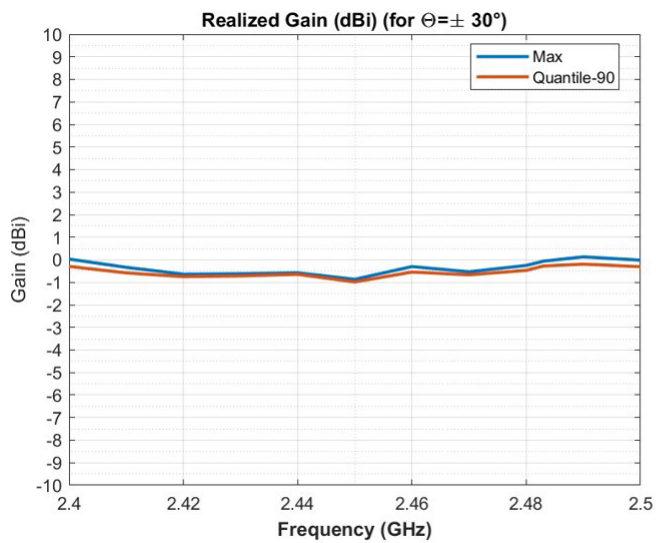


BT WLAN ANTENNA

BT WLAN ANTENNA / PART NUMBER 920-584-003

ANTENNA DIAGRAMS

CDF over Frequency





Hirschmann Car Communication GmbH | A Member of **USI** | Stuttgarter Straße 45 – 51 | 72654 Neckartenzlingen | Germany
Phone +49 7127 14-0 | Fax +49 7127 14-1060 | info@hirschmann-car.com | www.hirschmann-car.com

Hirschmann Car Communication and Hirschmann Car Communication (logo) are trademarks.
Hirschmann, USI, LTE, GSM, UMTS, WiFi, Galileo, BeiDou, GLONASS, Bluetooth and FAKRA are trademarks.
Other products and/or company names might be trademarks of their respective owners.

DISCLAIMER: While Hirschmann Car Communication (HCC) has made every reasonable effort to ensure the accuracy of the information in this data sheet, HCC gives no guarantee that it is error-free, nor does HCC make any other representation, warranty or guarantee that the information is accurate, correct, reliable or current. HCC reserves the right to make any adjustments to the information contained herein at any time without notice. HCC expressly disclaims all implied warranties regarding the information contained herein, including, but not limited to, any implied warranties of merchantability or fitness for a particular purpose. The dimensions in this data sheet are for reference purposes only and are subject to change without notice. Specifications are subject to change without notice. Consult HCC for the latest dimensions and design specifications.

© 2024 Hirschmann Car Communication. All Rights Reserved. Published 12-2024