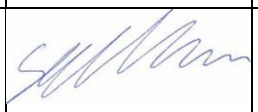
CU21007
Preliminary Product Specification Rev.04

For Antenova					
Author	**Signature**	**Date**	**Approved by**	**Signature**	**Date**
Steve Bradburn		23-MAR-2023			

For Leica			
	Approved by	**Signature**	**Date**

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1. PART NUMBER

Antenova Part number
CU21007

Leica Part number
957303

2. GENERAL DATA

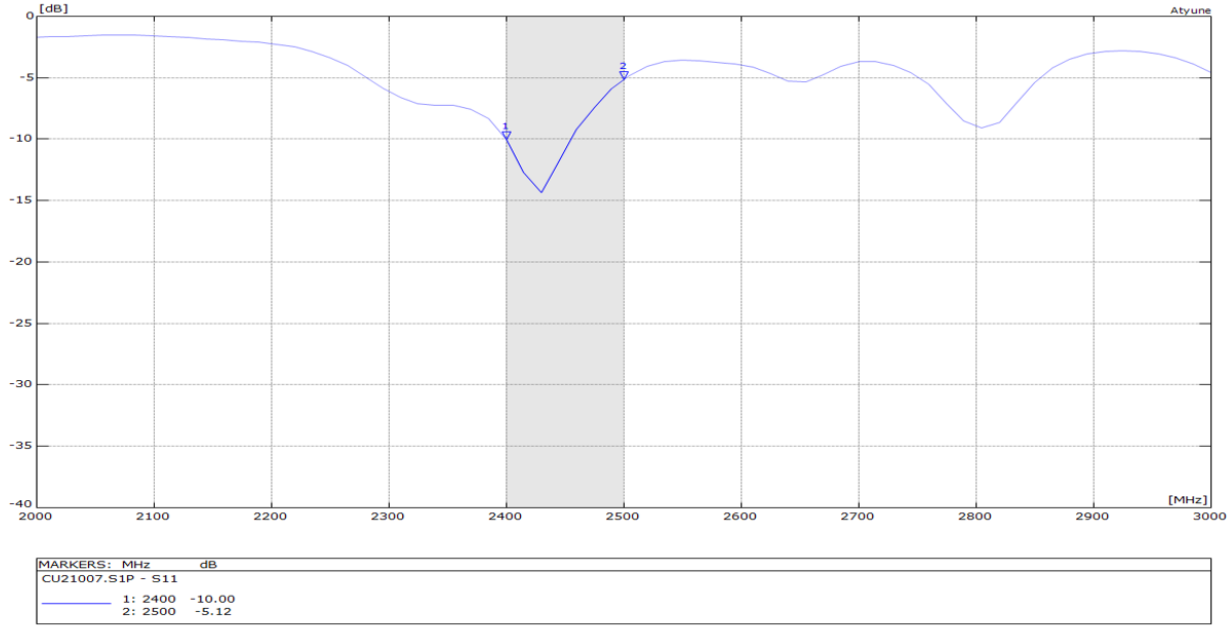
Frequency	2.4-2.5GHZ
Polarisation	Linear
Operating Temperature	-40 to +85°C
Impedance	50Ω
Weight	<2g
Antenna Type	FPC with UFL connector (I-PEX 20279-001E-03)
Antenna Dimensions	30.0x6.0x1.35 mm

3. RF CHARACTERISTICS SUMMARY

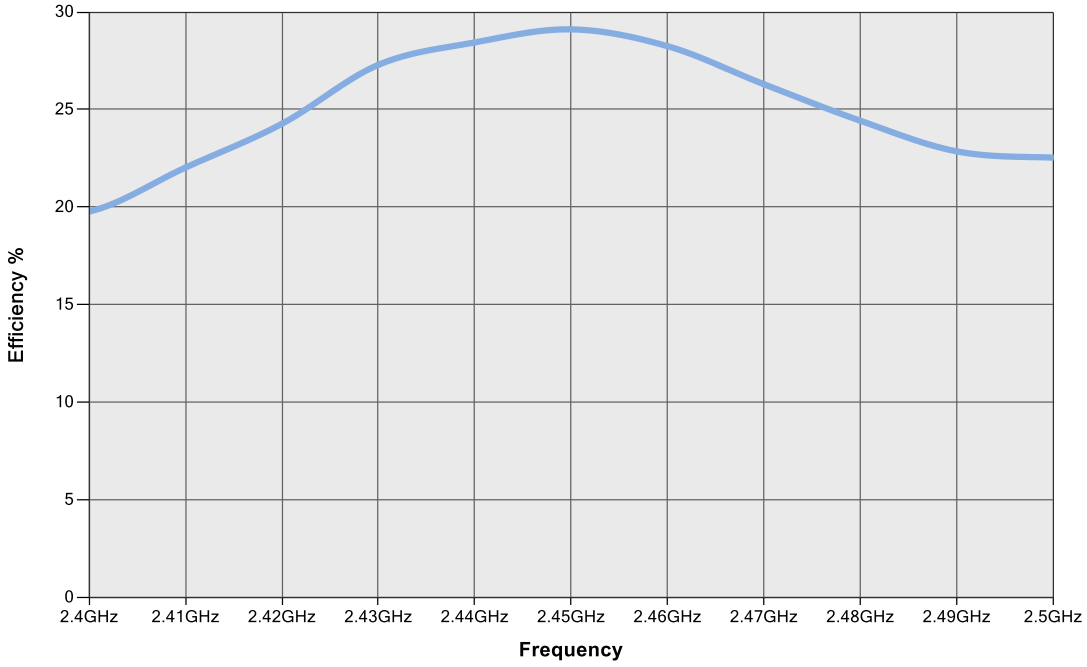
	2400-2500MHz
Return Loss	-5.1dB
Efficiency (Min)	20%
Efficiency (Avg)	25%
Gain (Peak)	2.8dBi
Gain (Avg)	-6.0dBi

4. RF PERFORMANCE

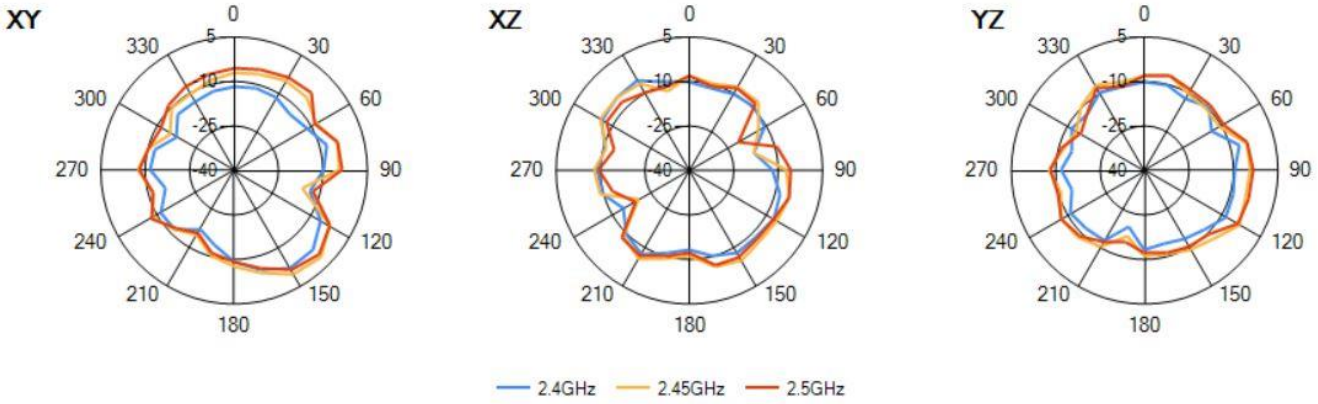
4.1 Return Loss

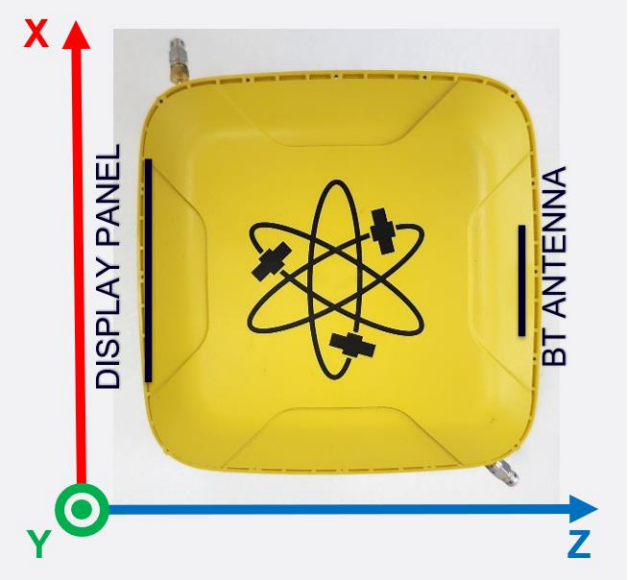


4.2 Antenna Efficiency



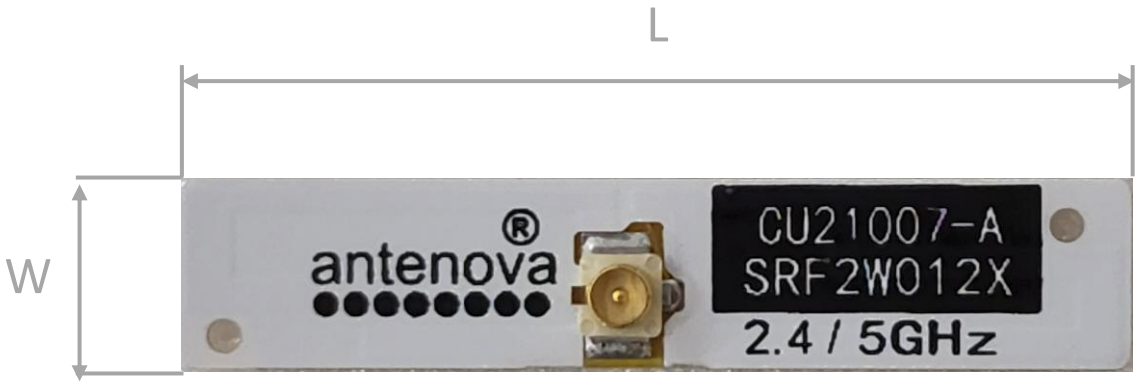
4.3 Radiation Pattern





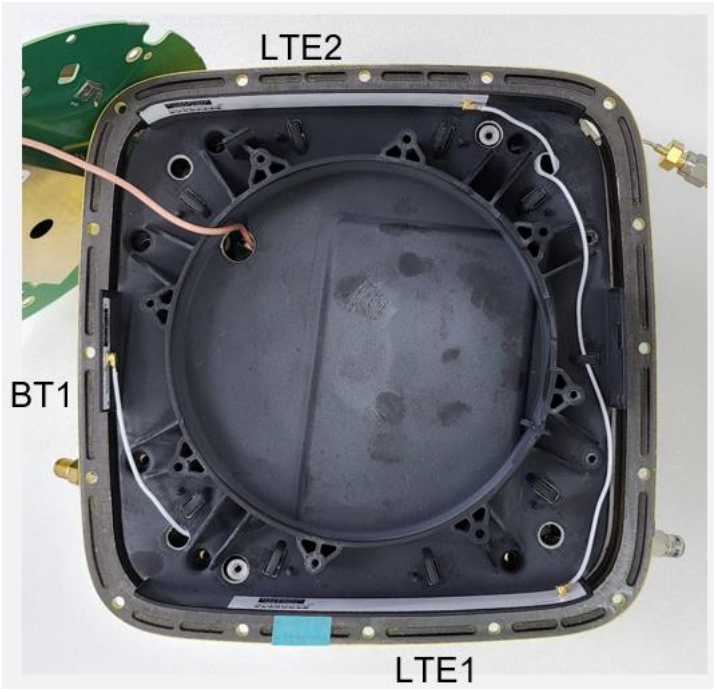
5. ANTENNA DIMENSIONS

L	W	H
Length	Width	Height
30.0 ±0.1	6.0 ±0.1	1.35 nominal



All dimensions in mm

PLACEMENT



6. ELECTRICAL INTERFACE

The Host PCB should ensure that the transmission lines are designed to have a characteristic impedance of 50 Ω

• The length of the transmission lines should be kept to a minimum
• Any other parts of the RF system like transceivers, power amplifiers, etc., should also be designed to have an impedance of 50 Ω

Once the material for the PCB has been chosen (PCB thickness and dielectric constant), a coplanar transmission line can easily be designed using any of the commercial software packages for transmission line design. For the chosen PCB thickness, copper thickness and substrate dielectric constant, the program will calculate the appropriate transmission line width and gaps on either side of the track so the characteristic impedance of the coplanar transmission line is 50 Ω

7. HAZARDOUS MATERIAL REGULATION CONFORMANCE

Antenova's products conform to REACH and RoHS legislation worldwide. A certificate of conformance is available from Antenova's website.

8. STATEMENT ON INTELLECTUAL PROPERTY & DISCLAIMER

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