



ANTENNA OF THINGS

ANTENNA DATASHEET

AOT PN: ANT-P3342-S01

REVISION HISTORY

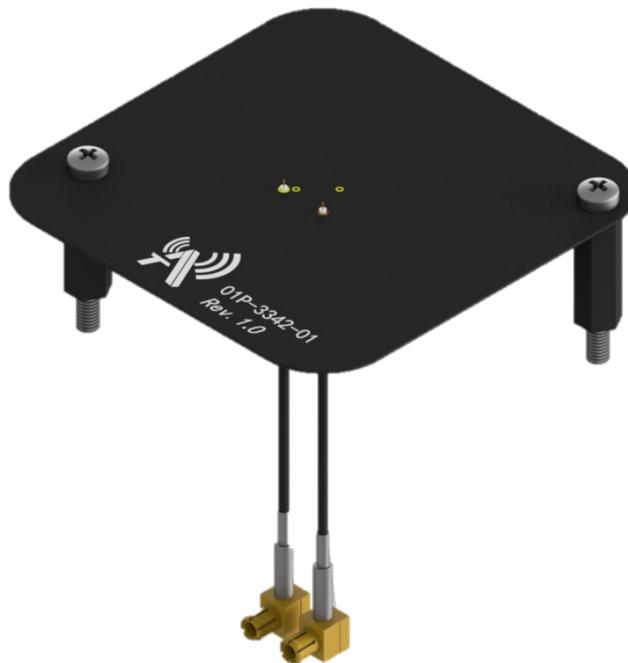
REV.	Description	Date
1.0	First release	MAY22/2023

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ANT-P3342-S01 Antenna

ANT-P3342-S01 Antenna is an internal cable-fed multiband dual polarization antenna for N77 bands. The solution is suitable for low-cost, high-performance antenna applications.



Features Overview

- Support of 5G N77
- Operating bands
 - ◆ 3300MHz-4200MHz
- High realized efficiency
- Directional radiation pattern



Assembly Drawing

Note:

- An [X] dim identifies a key characteristic, a (X)dimension is for information purposes only and no tolerance is implied.
- All materials shall be ROHS compliant

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ITEM	NAME	DESCRIPTION	QTY
1	Antenna element	FR4 PCB,Double sided, Freq.:n77, +/-45°, 2 ports, Black soldermask	1
2	Standoff	Nylon66, 18mm L, Female to male thread, M3*0.5P, Black color	2
3	Screw M3	Plastic screw M3x6 L, Black Color	2
4	Cable Assembly	1.370D low loss black cable, 200mm L, MCX-JW, black HS tube	2

<p>FOR TOLERANCES NOT SPECIFIED USE: unit: mm</p> <p>[Xxmm ± 0.3mm] [Xxmm ± 0.20mm]</p> <p>DRAWN: RD CHECKED: RD DATE: 2023/5/22</p> <p>APPROVED: ZD DATE:</p> <p>CUSTOMER: ZD</p> <p>PROJECT: 5G DAS</p>	<p style="text-align: center;">PROPRIETARY DATA</p> <p style="text-align: center;"> </p> <p style="text-align: center;"> <small>THE INFORMATION CONTAINED IN THIS DOCUMENT IS OF A PROPRIETARY NATURE AND MAY NOT BE USED OR REPRODUCED WITHOUT THE EXPRESSED WRITTEN PERMISSION OF AOT INC.</small> </p> <p>DESCRIPTION: Ant ass'y, n77, +/-45°, PCB, 2x 1.370D black cable 200mm L, 2x MCX-JW</p> <p>PN: ANT-P3342-S01</p> <p>SIZE: A4 SCALE: 1:2 SHEET: 1 OF 1</p>
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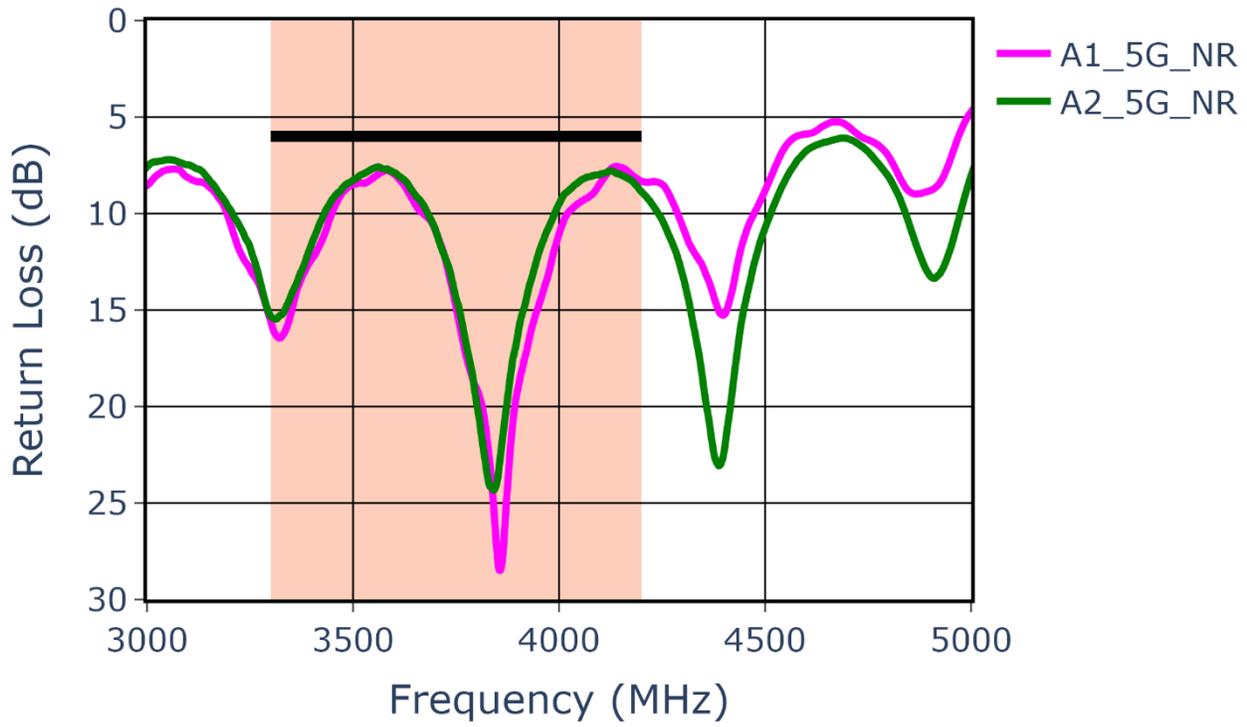


+ Specifications and Interface

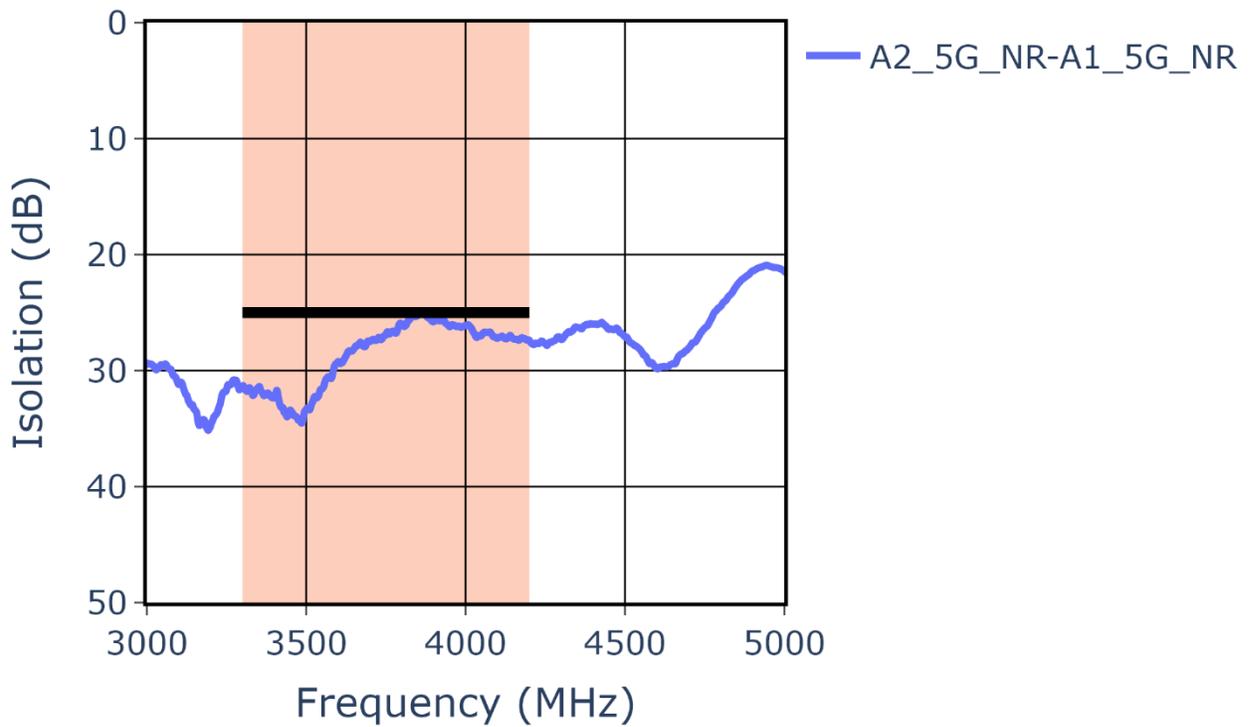
Wireless Standard	5G NR
Frequency Bands	3300MHz-4200MHz
Peak Realized Gain	TBD
Realized Efficiency	TBD
Return Loss	>8.5dB
Polarization	$\pm 45^\circ$ Linear Polarization
Radiation Pattern	Directional
Feed Impedance	50 Ω
Power Handling	30dBm
Antenna Structure	PCB antenna
Feeding Description	2ports, cable feeding, 1.37 Coaxial RF cable, MCX-JW (90°) connector
Antenna Dimensions	62.0x62.0x0.6 mm
Weight	TBD
Temperature Range	Operating temperature: -40° C to +75° C (-40° F to +167° F) Storage temperature: -40° C to +85° C (-40° F to +185° F)



Return Loss and Isolation



The return loss of antennas



The isolation of antennas



Radiation Patterns

TBD

Antenna integrated in customer's housing for radiation pattern

Realized Efficiency & Peak Gain

TBD