



D-Link 530

ARY196-3277-017-00

Only Antenna

5GHz (Peak Gain: 3.09dBi 、
Directional Gain:7.92dBi)

Engineer :Wade

Report date : 2023/04/13



Directional Gain

Directional Gain=

$$10 \log \left[\frac{\left(10^{\frac{G1}{20}} + 10^{\frac{G2}{20}} + \dots + 10^{\frac{Gn}{20}} \right)^2}{N_{ant}} \right] dBi$$

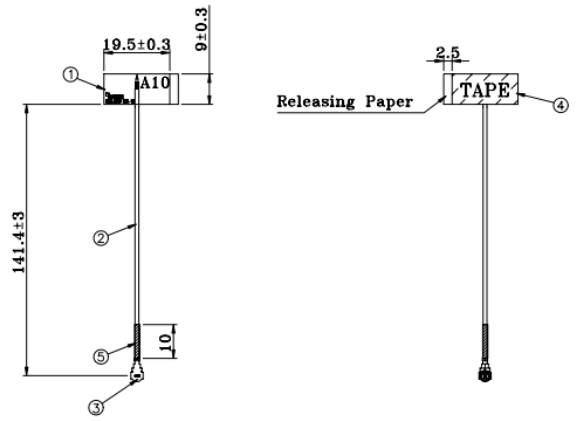
Category	Peak Gain(dBi)	Directional Gain (dBi)
Wi-Fi 5G	A8: 3.2 A9: 3.17 A10: 3.09	7.92

Customer Drawing

REV	DATE	DESCRIPTION	ECN NO.	NAME
A1	22.11.28	PROPOSAL		LIEF
A2	22.12.26	▲MODIFY CABLE COLOR		LIEF

RoHS Compliant

A
B
C
D
E



CUST NO.:

⑦							
⑥							
⑤	H.S TUBE	COLOR : BLUE , L : 10mm▲					
④	Tape	G9000 , Size: 8.2 x 18.7mm	1				
③	Connector	MHF I Plug For 1.37mm Cable , Gold Plated	1	DRAWN BY	LIEF(WST)	DRAWING NO.	ART106-3277-017-00
②	Cable	1.37mm Low Loss Coaxial Cable , FEP White Jacket ▲	1	CHECKED BY		DRAWING SIZE	A4
①	PCB	FR-4 , Size: 9 x 19.5 x 0.8mm	1	APPROVED BY		UNIT	mm
NO.	ITEM	DESCRIPTION	QTY	SORTING NO.	WSC	PAGE	1 OF 1

WIESON TECHNOLOGIES CO., LTD
WIESON
TITLE: ANTENNA 10

PART NO.: ARY196-3277-017-00

[ARTICLE:SR-83-32 V7]

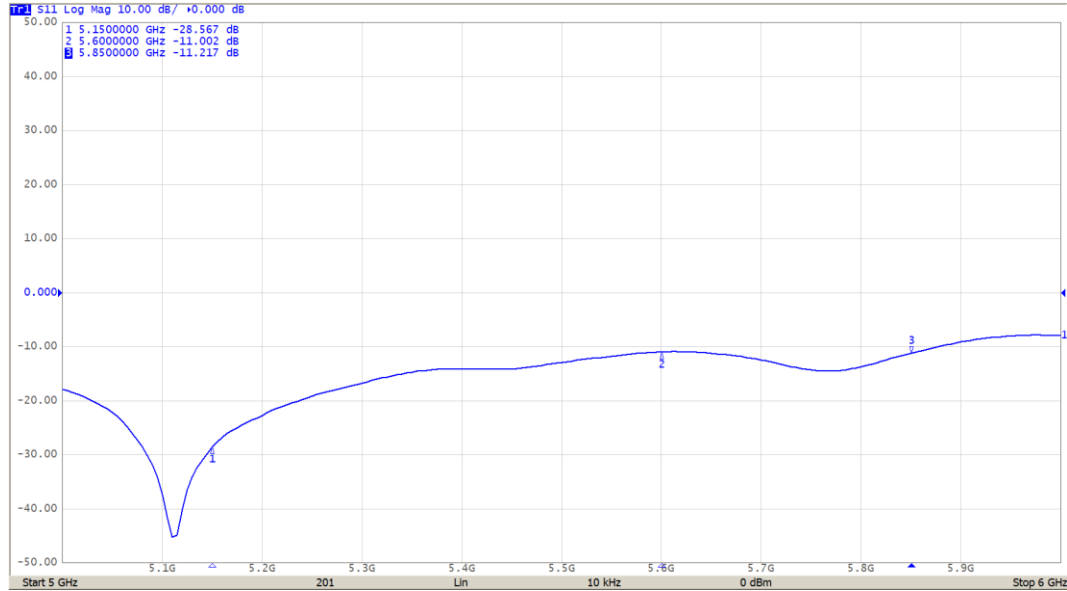
A10

Antenna specification

Item	Specification
Operating Frequency(GHz)	5.15-5.85
Bandwidth	700 MHz (Min.)
Return Loss	10dB (Min.)
Polarization	Linear
Azimuth Bandwidth	Omni-directional
Peak Gain	3.09dBi (Max.)
Impedance	50Ω
Material	PCB
Connector	MHF I
Cable type	O.D. 1.37 L/L
Maximum Power	1W
V.S.W.R	2 : 1
Radiation	Omni directional
Efficiency	57%(Max.)
Operating Temperature	-10~60°C
Storage temp	-10~70°C

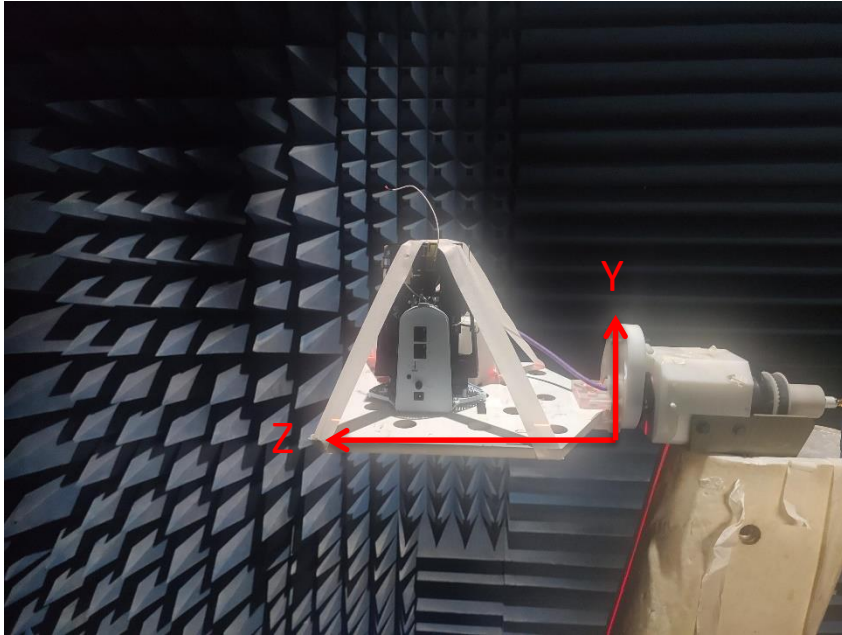
S-Parameter

A10



Freq(MHz)	5150	5600	5850
S11(dB)	-28.5	-11	-11.2

chamber measurement photo



A10

3D Gain Total



Freq(GHz)	Peak Gain(dBi)	3D-avg Gain(dBi)	Efficiency(%)
5.15	3.05	-2.55	56
5.25	3.09	-2.43	57
5.35	2.5	-2.77	53
5.47	3.04	-2.71	54
5.6	3.04	-2.78	53
5.725	2.07	-2.85	52
5.785	1.48	-2.94	51
5.85	2.26	-2.98	50

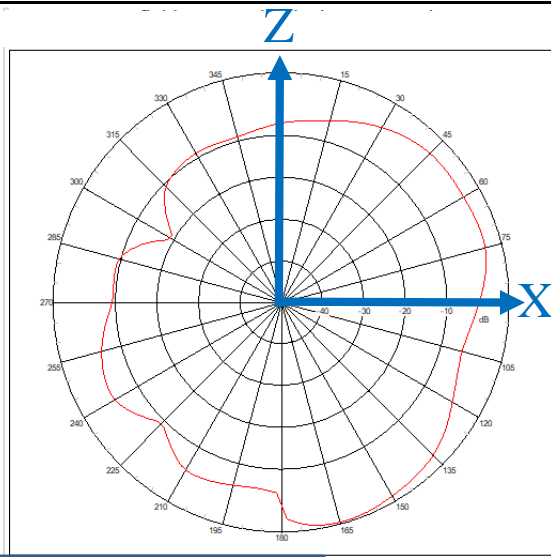
Antenna Pattern

A10

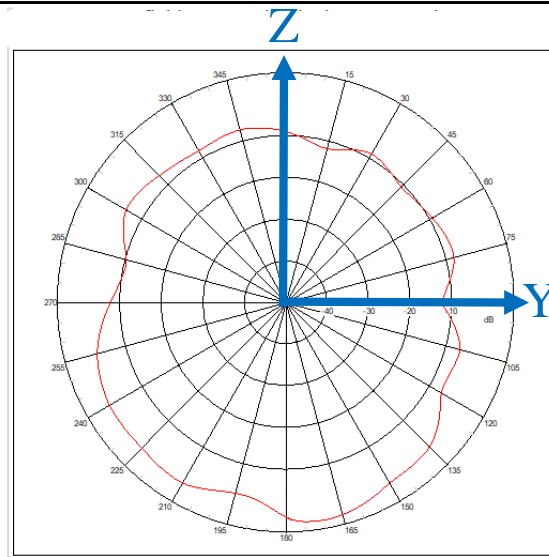
Frequency : 5600MHz

Freq(GHz)	Peak Gain(dBi)	3D-avg Gain(dBi)	Efficiency(%)
5.6	3.44	-2.78	53

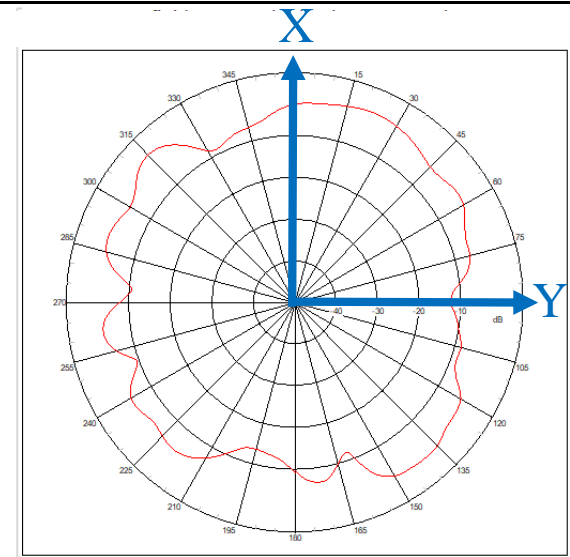
XZ-plane



YZ-plane



XY-plane



Far-field amplitude limits:

Max: 5dB

min: -50dB



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MAKING THE PERFECT CONNECTION

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