

CRESYN

Approval Number

ISSUE

1.0

RoHS

H/F

APPROVAL SHEET



Model : HDX-3005

Part Name : PCB Pattern Antenna

CRESYN Approval		Reviewer	Consensus	Approver
	Department			
	Name			
	signature			

Antenna Specification Test Result

< BT >

List	Result			
Types and shapes of antennas	BT Antenna (Bluetooth Antenna)			
Gains and properties of antenna	Bluetooth 2400 MHz~2480 MHz			
	Freq.	2400MHz	2440MHz	2480MHz
	Avg. 3D Gain	-2.31dBi	-2.02dBi	-1.85dBi
	Omni-directional			
Connection status with sending device	PCB Pattern Type			
Model Name of antenna	HDX-3005			

Actual Picture

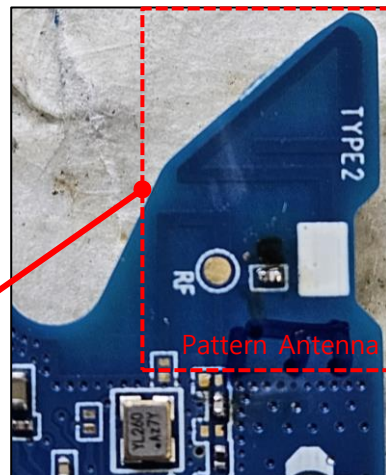
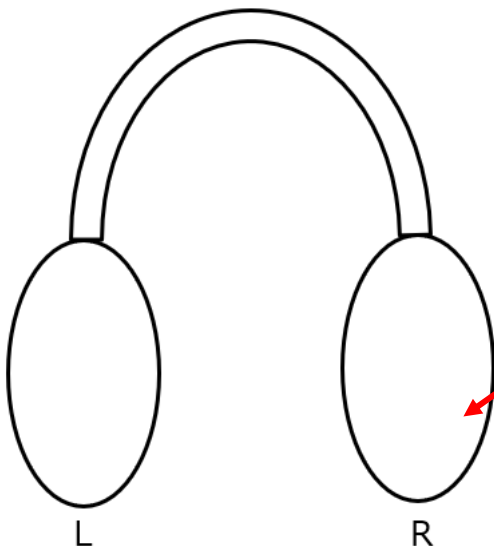


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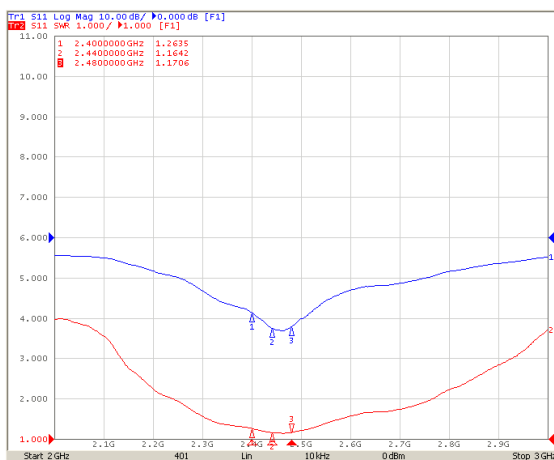
Revision history	Date	Item	Contents	REV.
ISSUE 1.0	2025.12.29	—	First publication	A
Issue ___ → ___				
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1. General Specifications

- 1) Model : HDX-3005
- 2) Frequency Band: Antenna for BT support
- 3) Ant. Type : PCB Pattern Antenna
- 4) Size (Width X Length) : 7mm X 11.8mm

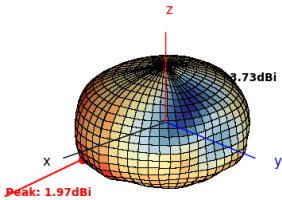
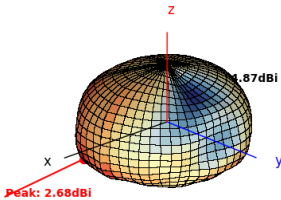
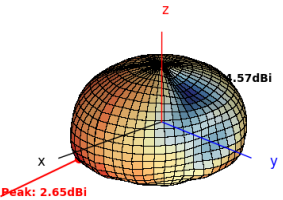
2. Electrical specification

- 1) Matching Impedance : Nominal 50Ω
- 2) Radiation Pattern : Omni-Directional
- 3) VSWR & Return loss

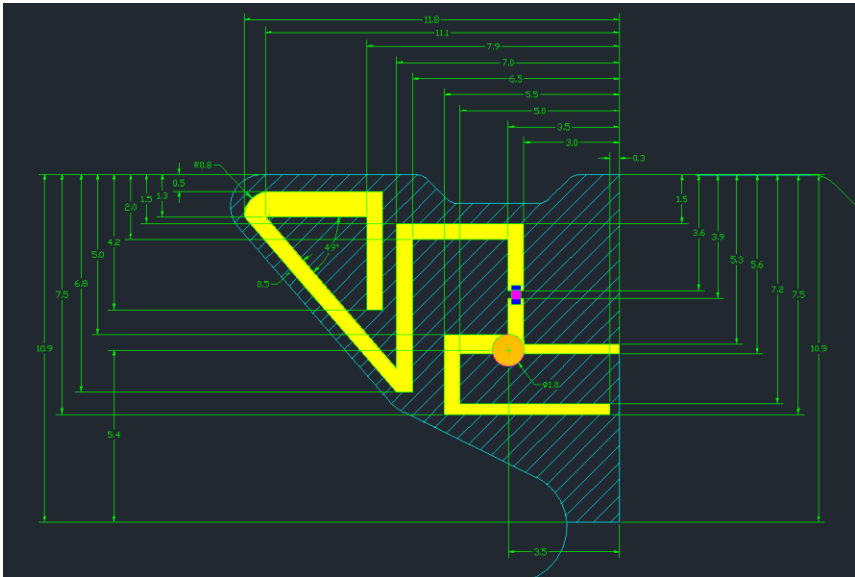


Specification			
Electrical Specification		Frequency	
		BT	
V.S.W.R (Free space)	Freq.	2400 MHz	2480 MHz
	Pattern	2.0 : 1 Less than	2.0 : 1 Less than
Average Gain (min)	Freq.	2400 MHz	2480 MHz
	3D Gain	- 3.5 dBi More than	- 3.0 dBi More than
Matching Value			

4) 3D GAIN DATA
BT(2400~2480MHz)

Frequency [MHz]	2400	2440	2480
Average Gain [dBi]	-2.31	-2.02	-1.85
Efficiency [%]	58.8	62.8	65.4
Peak Gain [dBi]	1.97	2.68	2.65
Radiation Pattern			

3. Mechanical specification



PCB Pattern Antenna Drawing

(Unit : mm)