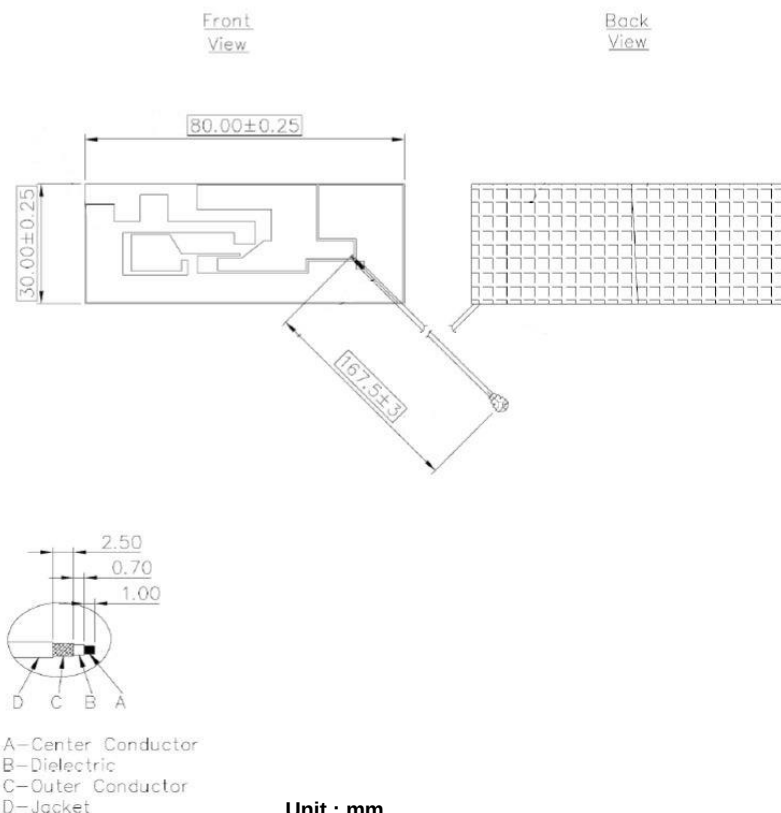


ELECTRICAL SPECIFICATION

PARAMETERS		VALUE	UNIT
Working Frequency Range		868 915	MHz
Return Loss, max		-10	dB
VSWR, max		2.0	-
Polarization		Linear	-
Gain		0.64	dBi
Radiation Pattern		Omni-Directional	-
Impedance		50	Ω
Operating Temperature Range		-20 ~ +65	°C
Antenna Material		FPC	-
		0.5	oz
Double Tape		3M 9888T	-
Coaxial Cable	Type	$\varnothing 1.37$	mm
	Color	Black	-
Connector		IPEX (Gold)	-

DIMENSIONS



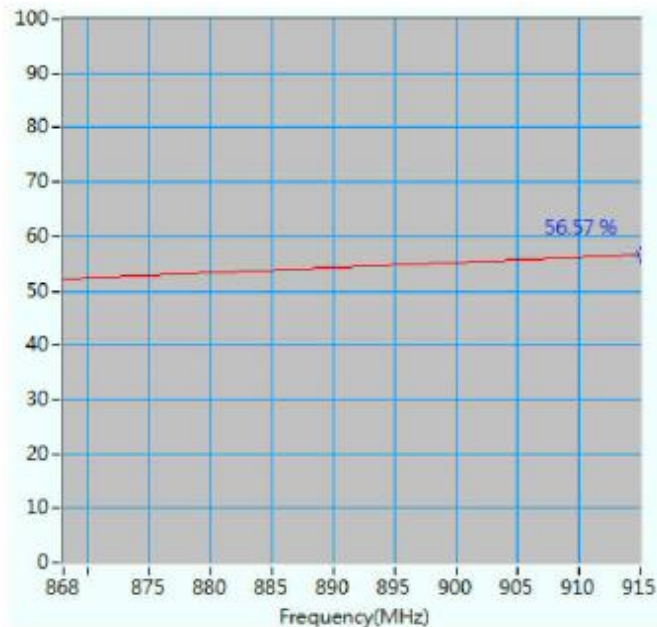
■ FREQUENCY CHARACTERISTICS

Return Loss & Isolation

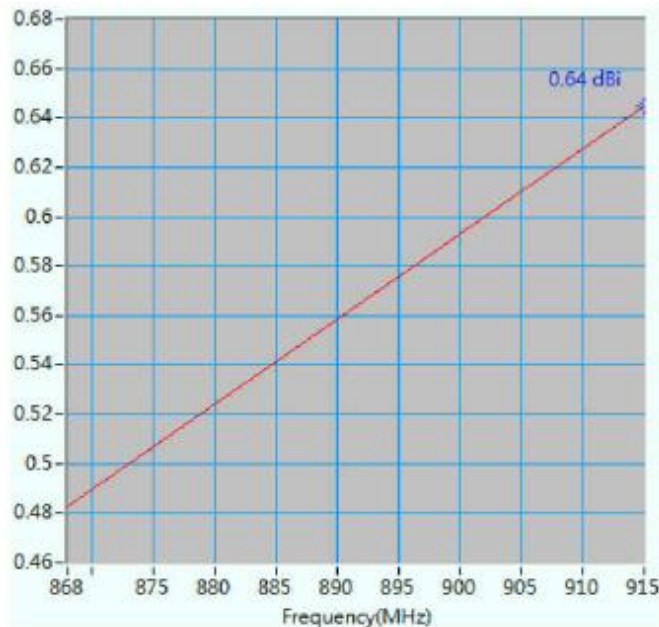


■ ANTENNA EFFICIENCY & PEAK GAIN

433 ~ 915 MHz



Maximum Efficiency at 915 MHz : 56.5 %



Maximum Peak Gain at 915 MHz : 0.64 dBi

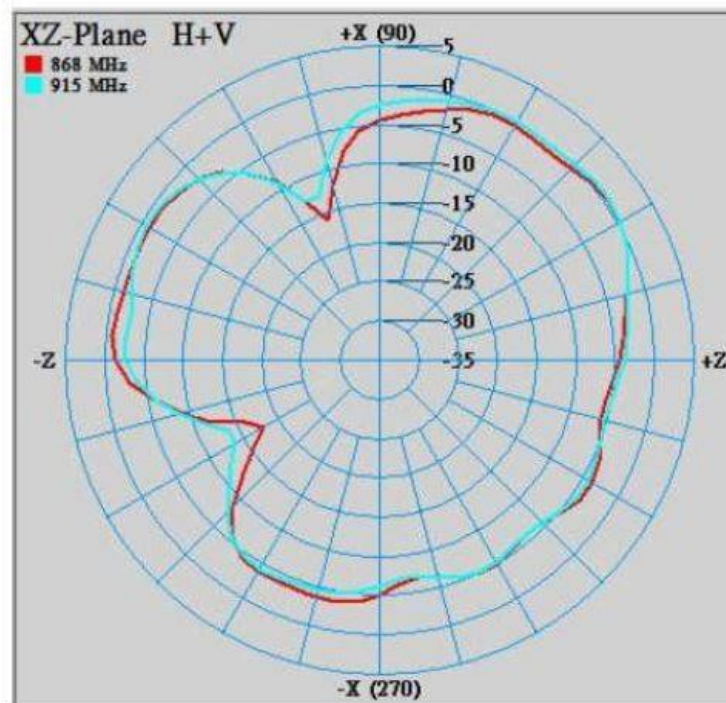
	Antenna	
Frequency (MHz)	Efficiency (%)	Peak gain (dBi)
868	52.3	0.48
915	56.6	0.64

■ 2D RADIATION PATTERNS

868 / 915MHz

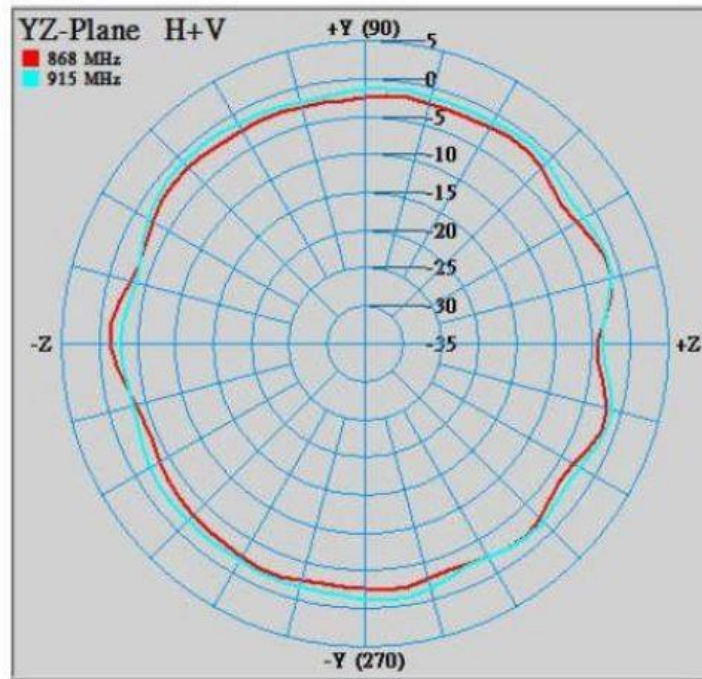
X-Z Plane
Phi=0.00deg

Gain . dB



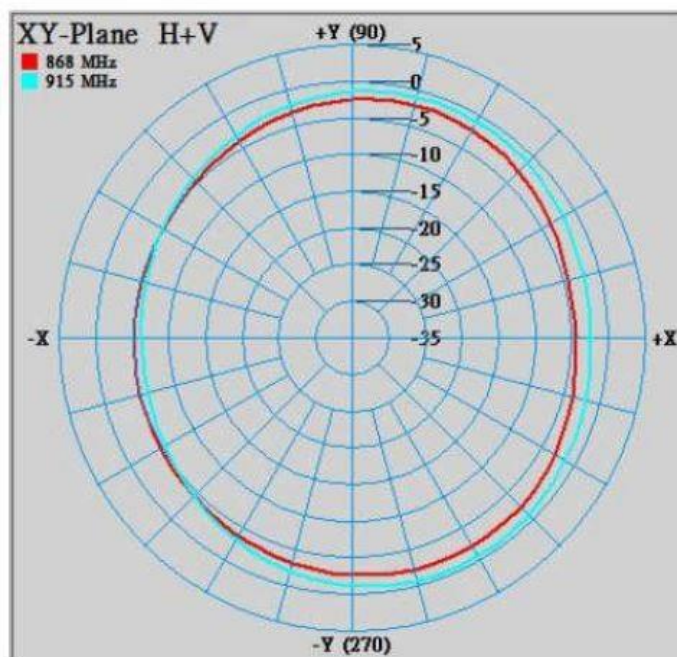
Y-Z Plane
Phi=90.00deg

Gain . dB



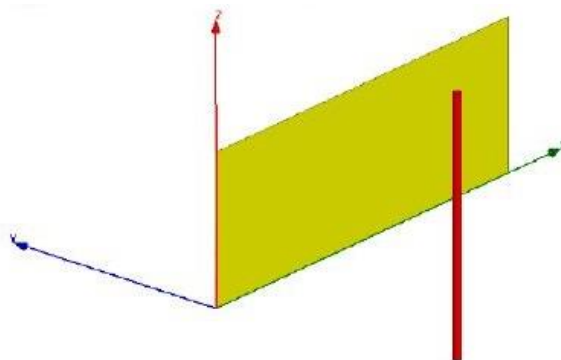
X-Y Plane
Theta=90.00deg

Gain . dB



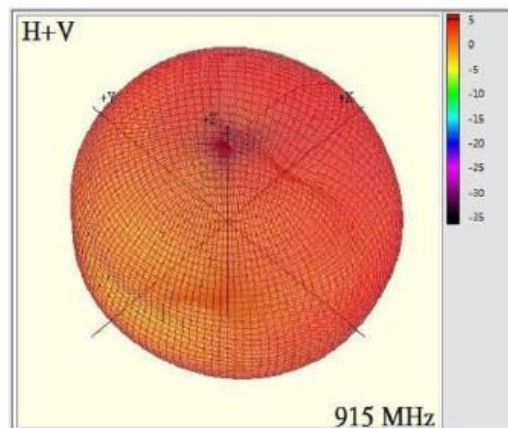
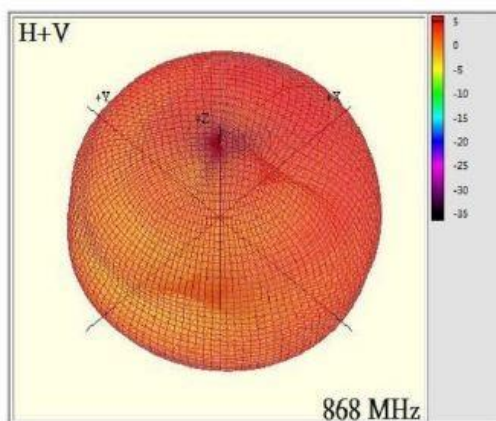
	ZX plane		ZY plane		XY plane	
Frequency [MHz]	Max Value [dB]	Average [dB]	Max Value [dB]	Average [dB]	Max Value [dB]	Average [dB]
868	0.47	-3.54	-1.25	-2.58	-2.13	-3.55
915	0.59	-3.36	-0.82	-1.91	-0.61	-2.41

3D RADIATION PATTERNS



868MHz

915MHz



APPROVAL

RALTRON	
DRAWN BY:	AR, March 24, 2022
APPROVED BY:	CP, March 24, 2022
REVISION:	A, Initial Release

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