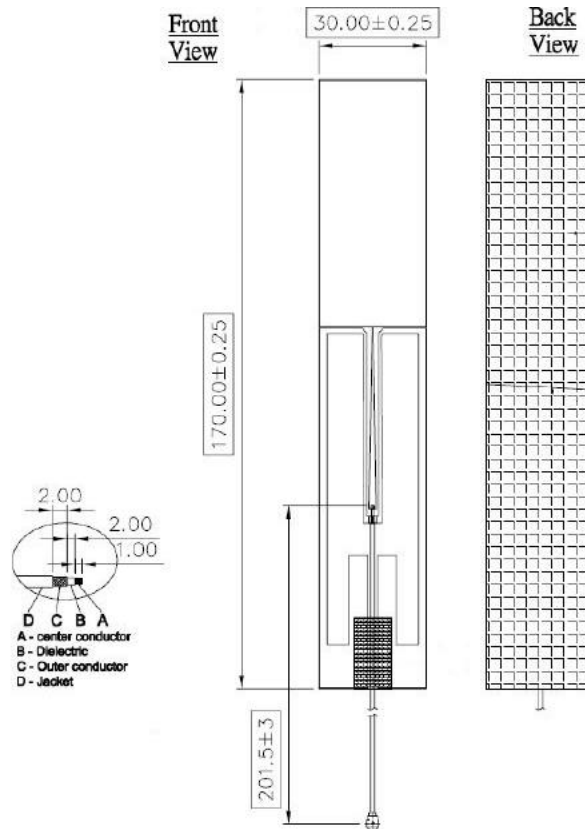


ELECTRICAL SPECIFICATION

PARAMETERS		VALUE			UNIT
Frequency Range		433	868	915	MHz
VSWR, max		2.0			-
Return Loss, max		-10.0			dB
Impedance		50			Ω
Gain	@ 433 ~ 915 MHz	2.13			dB
Radiation		Omni-Directional			-
Polarization		Linear			-
Antenna Material		FPC			-
		0.5			oz
Connector		IPEX (Ni/Gold)			-
Cable	Coaxial Cable	$\varnothing 1.13$			mm
	Color	Black			-
Double Tape		3M 9888T			-
Operation Temperature Range		-20 ~ +65			$^{\circ}\text{C}$

DIMENSIONS



Unit: mm

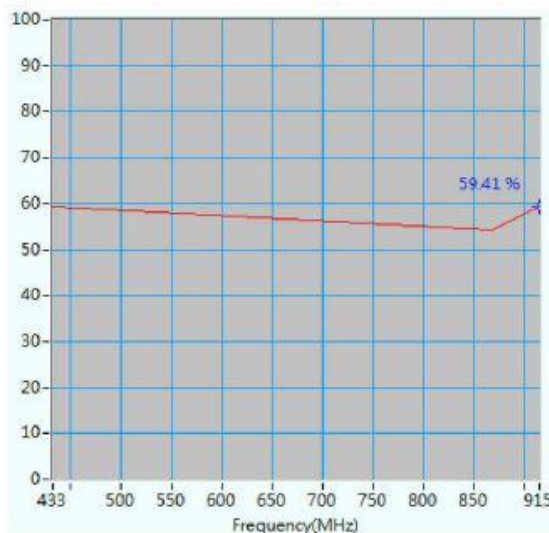
FREQUENCY CHARACTERISTICS

Return Loss & Isolation

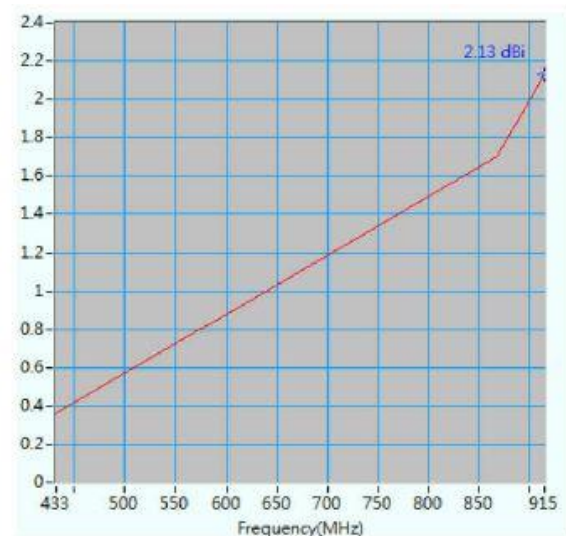


EFFICIENCY & PEAK GAIN

433 ~ 915 MHz



Maximum Efficiency at 915 MHz : 59.4 %



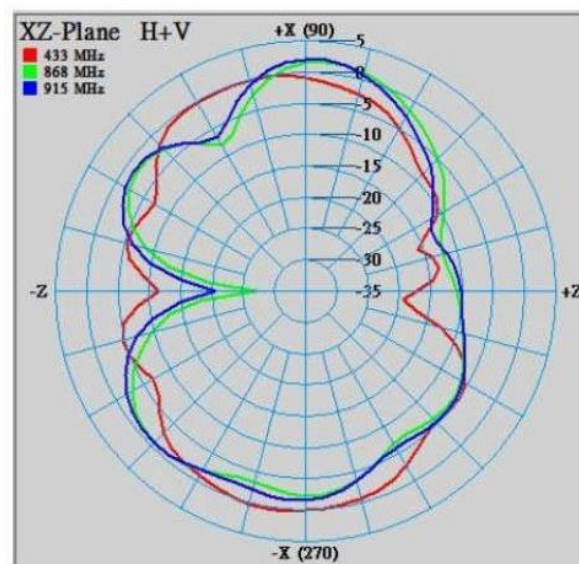
Maximum Peak Gain at 915 MHz : 2.13 dBi

	Antenna	
Frequency (MHz)	Efficiency (%)	Peak gain (dBi)
433	59.3	0.37
868	54.2	1.70
915	59.4	2.13

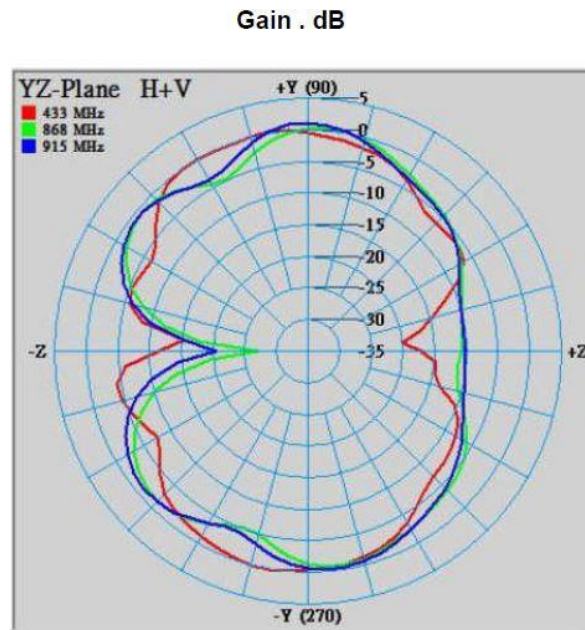
■ RADIATION PATTERN

X-Z Plane
Phi=0.00deg

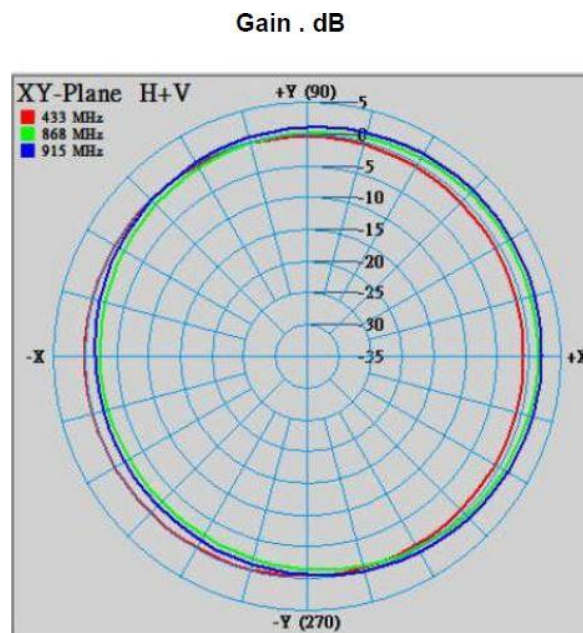
Gain . dB



Y-Z Plane
Phi= 90.00deg

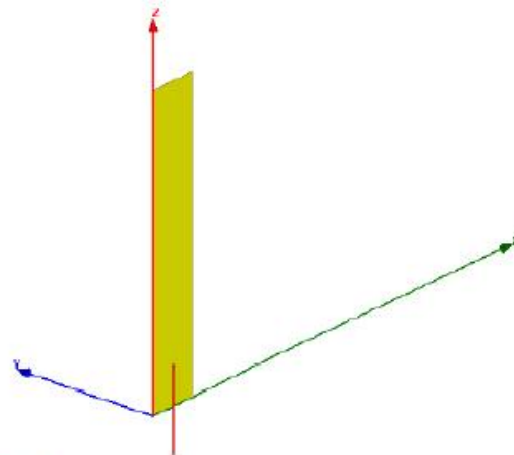


X-Y Plane
Theta= 90.00deg

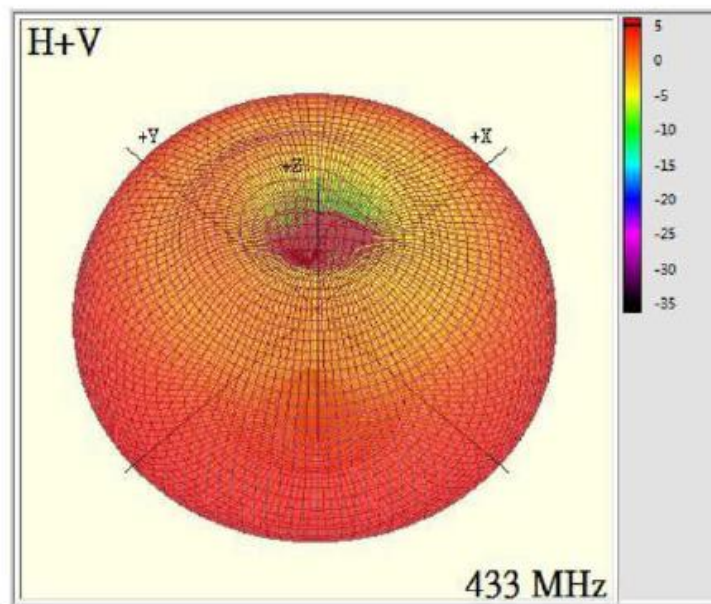


	ZX plane		ZY plane		XY plane	
Frequency [MHz]	Max Value [dB]	Average [dB]	Max Value [dB]	Average [dB]	Max Value [dB]	Average [dB]
433	0.35	-3.40	0.22	-3.39	0.00	-0.40
868	1.67	-3.71	0.31	-3.60	1.49	-0.31
915	2.05	-3.32	1.06	-3.15	2.13	0.46

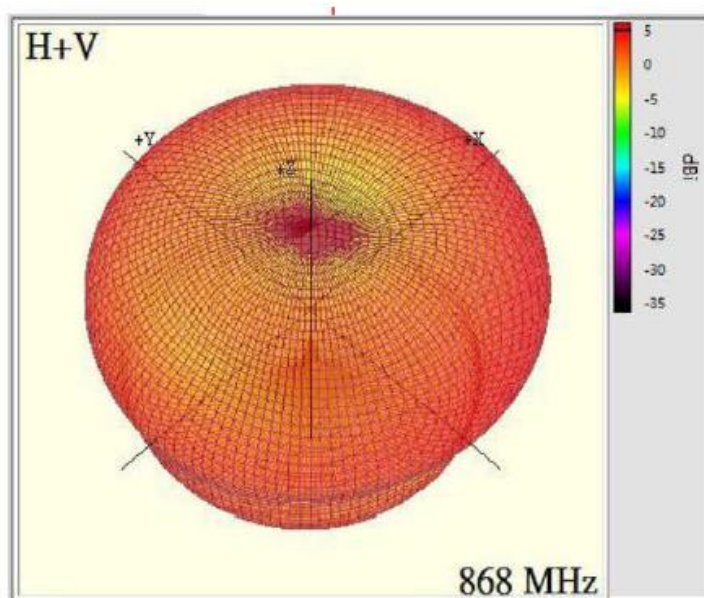
■ 3D Radiation Patterns



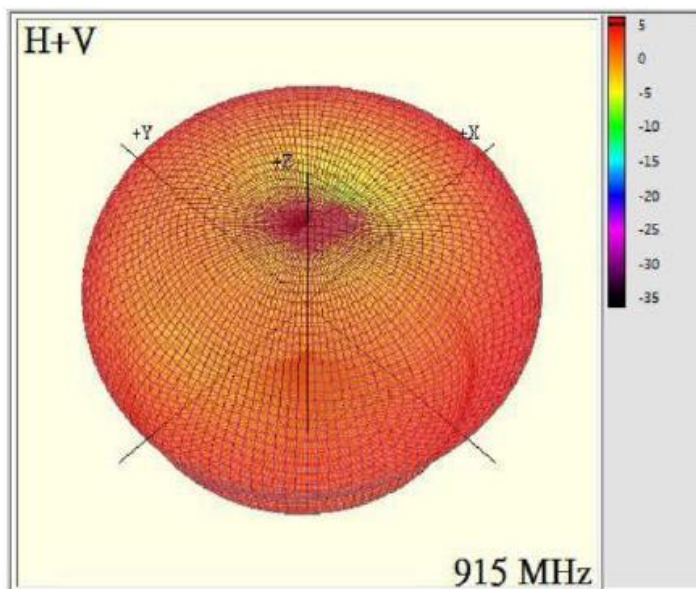
433MHz



868MHz



915MHz



■ ENVIRONMENTAL

PARAMETER	VALUE
RoHS	Compliant
REACH SVHC	Compliant
HALOGEN-FREE	Compliant



■ APPROVAL

RALTRON	
DRAWN BY:	AR, June 07, 2021
APPROVED BY:	CP, June 07, 2021
REVISION:	A, Initial Release
	B, AR, March 24, 2022
	Updated the Current Revision Levels

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