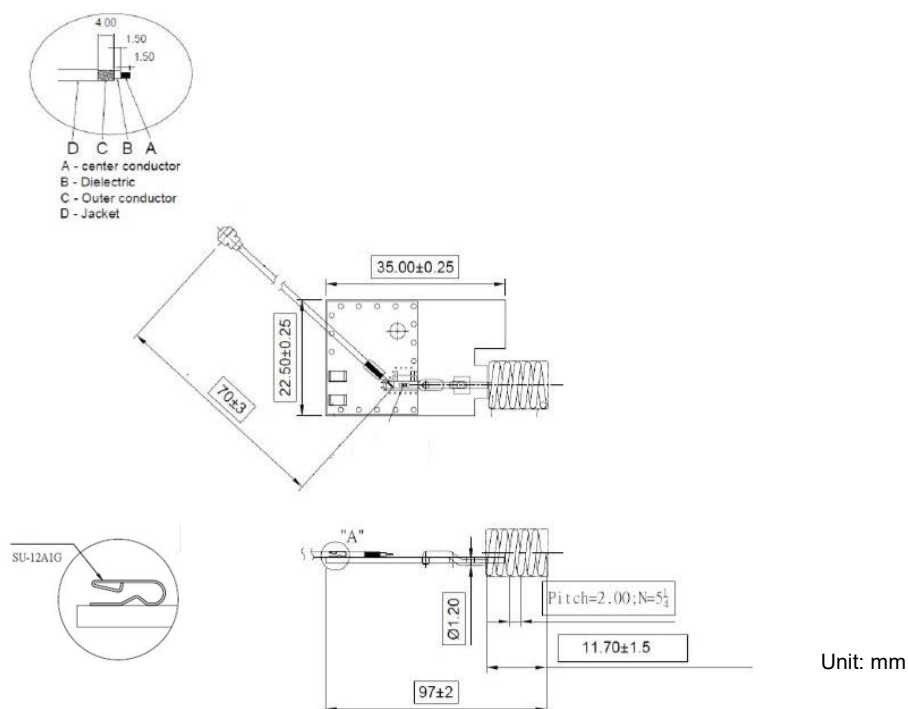


ELECTRICAL SPECIFICATION

PARAMETERS		VALUE	UNIT
Center Frequency		868	MHz
Return Loss, max		-10	dB
VSWR, max		2.0	-
Peak Gain		-0.63	dBi
Polarization		Linear Vertical	-
Radiation		Omni-Directional	-
Impedance		50	Ω
Admitted Power		1	W
Operating Temperature Range		-20 ~ +65	$^{\circ}\text{C}$
Antenna		FR4	-
	T	1.0	mm
Cable	Type	$\varnothing 1.13$	-
	Color	White	-
Connector		IPEX Compatible	-
Spring		Brass	-
Heat Shrink Tube		CB-HFT ($\varnothing 10 * L65 * T0.15$)	-
Capacitor		10	nH

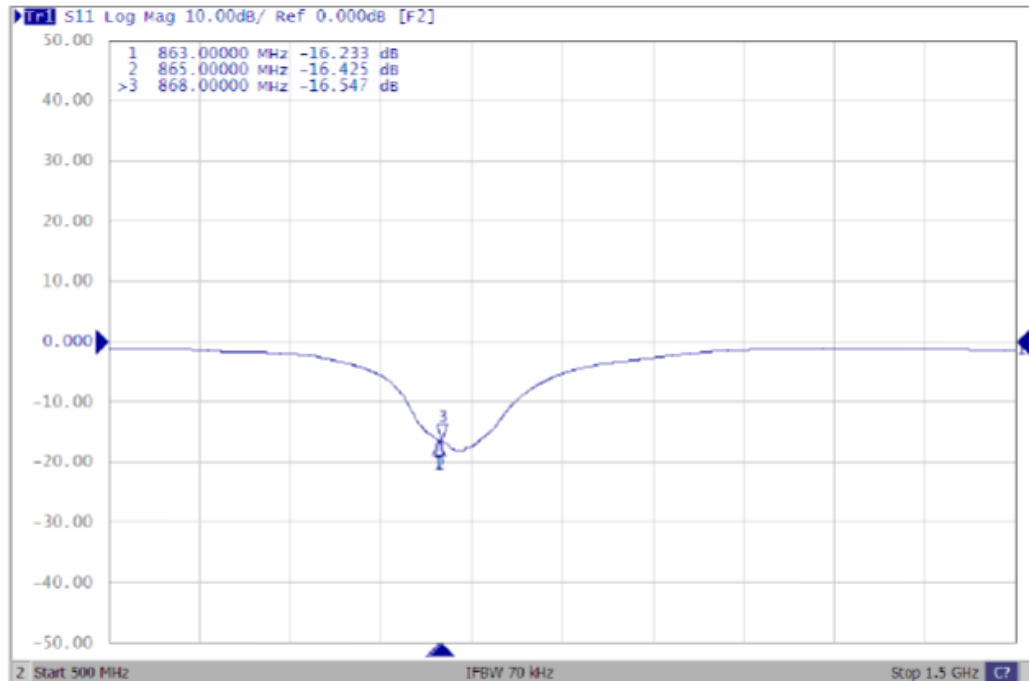
DIMENSIONS



FREQUENCY CHARACTERISTICS

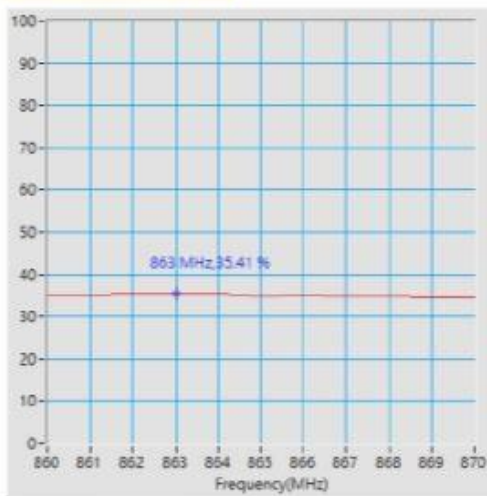
PCB+COIL

Return Loss

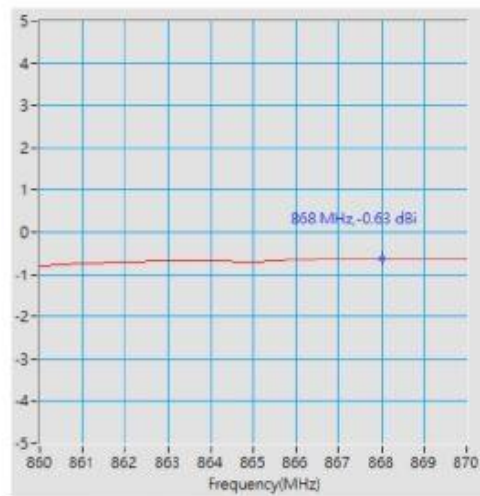


ANTENNA EFFICIENCY AND PEAK GAIN

PCB+COIL



Maximum Efficiency at 863 MHz : 35.41 %



Maximum Peak Gain at 868 MHz : -0.63 dBi

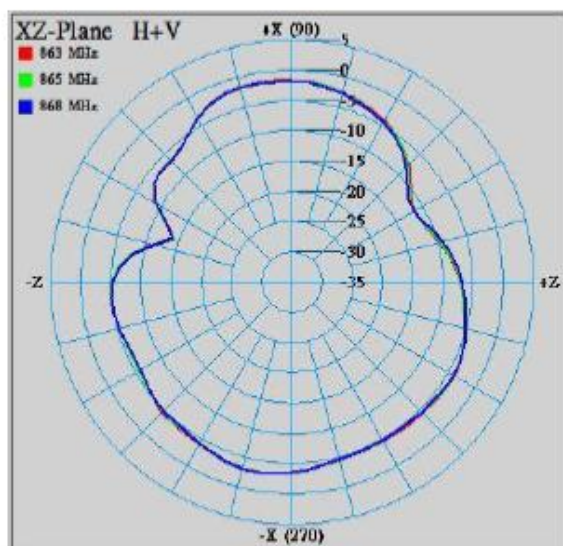
2D RADIATION PATTERN

PCB+COIL

X-Z Plane

Phi=0.00deg

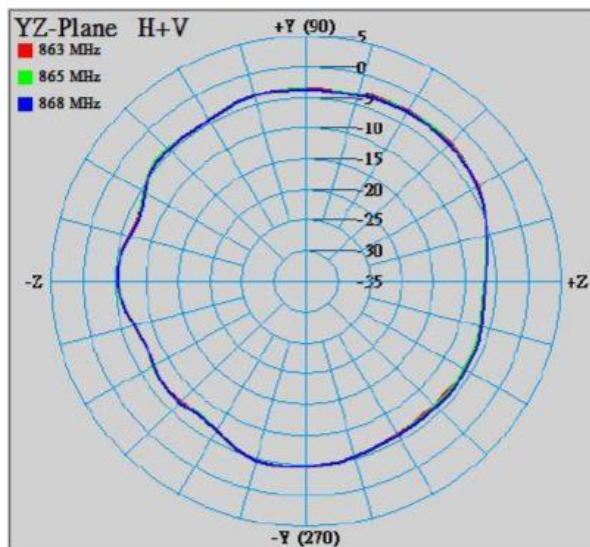
Gain . dB



Y-Z Plane

Phi=90.00deg

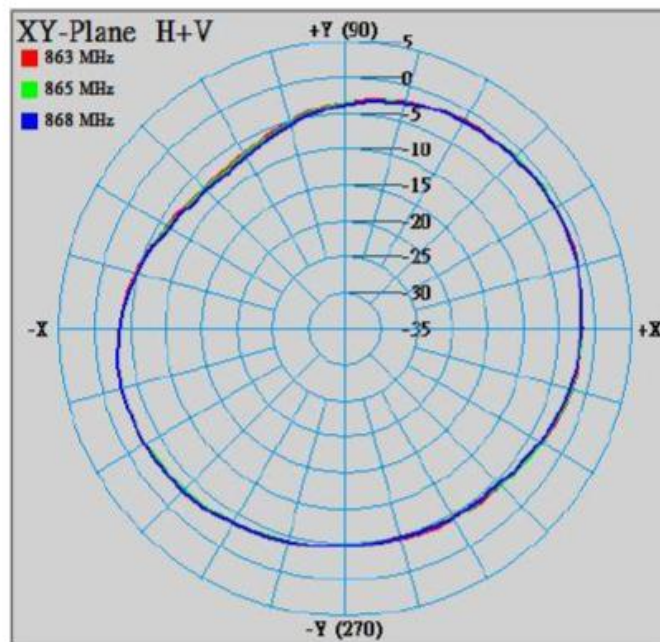
Gain . dB



X-Y Plane

Theta=90.00deg

Gain . dB



Frequency [MHz]	ZX plane		ZY plane		XY plane	
	Max Value [dBi]	Average [dBi]	Max Value [dBi]	Average [dBi]	Max Value [dBi]	Average [dBi]
863	-2.44	-5.56	-3.45	-5.81	-1.68	-4.01
865	-2.40	-5.52	-3.50	-5.75	-1.63	-3.98
868	-2.53	-5.64	-3.73	-5.85	-1.76	-4.13

■ ENVIRONMENTAL

PARAMETER	VALUE
RoHS	Compliant
REACH SVHC	Compliant
HALOGEN-FREE	Compliant



■ APPROVAL

RALTRON	
DRAWN BY:	AR, October 13, 2023
APPROVED BY:	CP, October 13, 2023
REVISION:	A, Initial Release

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