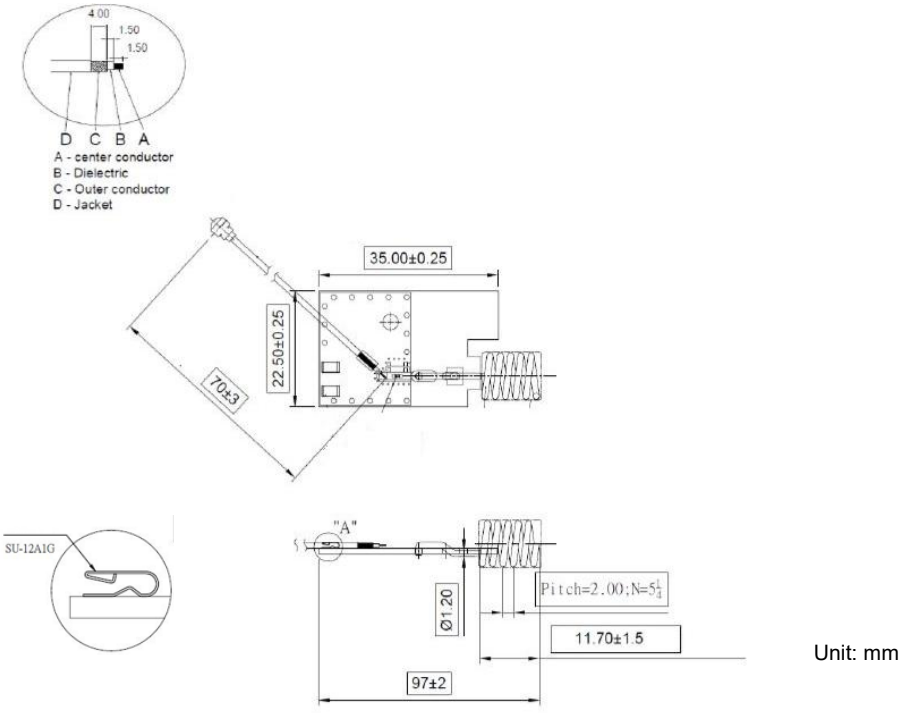
RLX-MA11-3522-W-001

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	°C
Antenna		FR4	-
	T	1.0	mm
Cable	Type	Ø1.13	-
	Color	White	-
Connector		IPEX Compatible	-
Spring		Brass	-
Heat Shrink Tube		CB-HFT (Ø10*L65*T0.15)	-
Capacitor		10	nH

DIMENSIONS

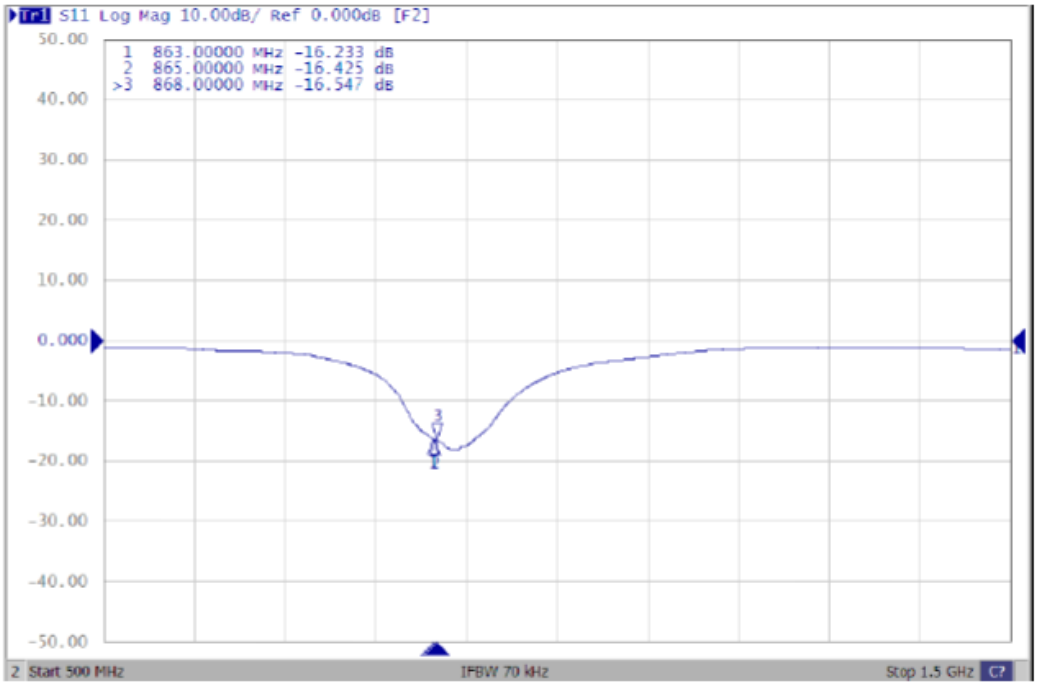


Unit: mm

FREQUENCY CHARACTERISTICS

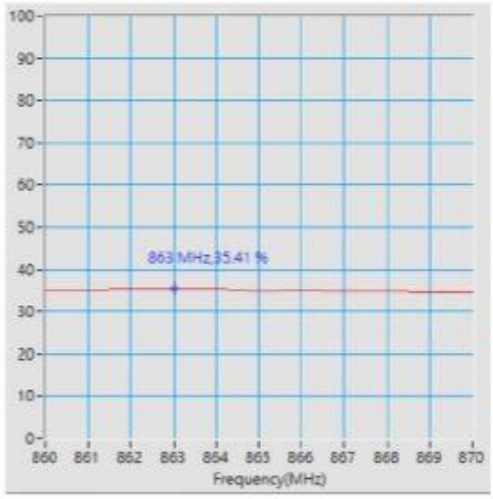
PCB+COIL

Return Loss

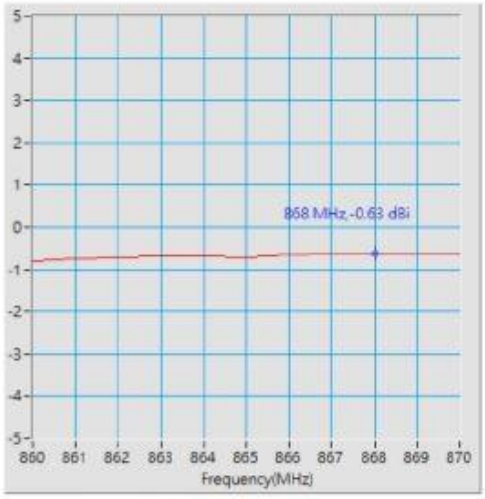


ANTENNA EFFICIENCY AND PEAK GAIN

PCB+COIL



Maximum Efficiency at 863 MHz : 35.41 %



Maximum Peak Gain at 868 MHz : -0.63 dBi

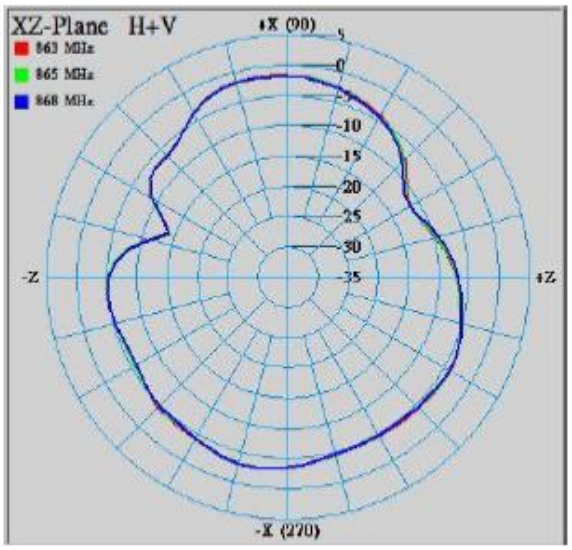
2D RADIATION PATTERN

PCB+COIL

X-Z Plane

Phi=0.00deg

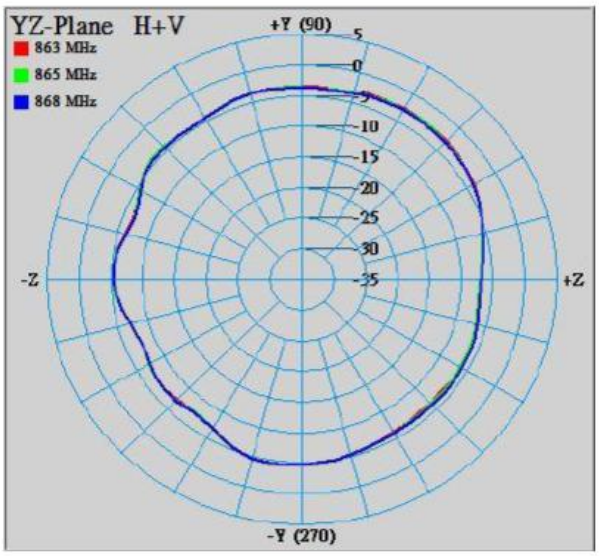
Gain . dB



Y-Z Plane

Phi=90.00deg

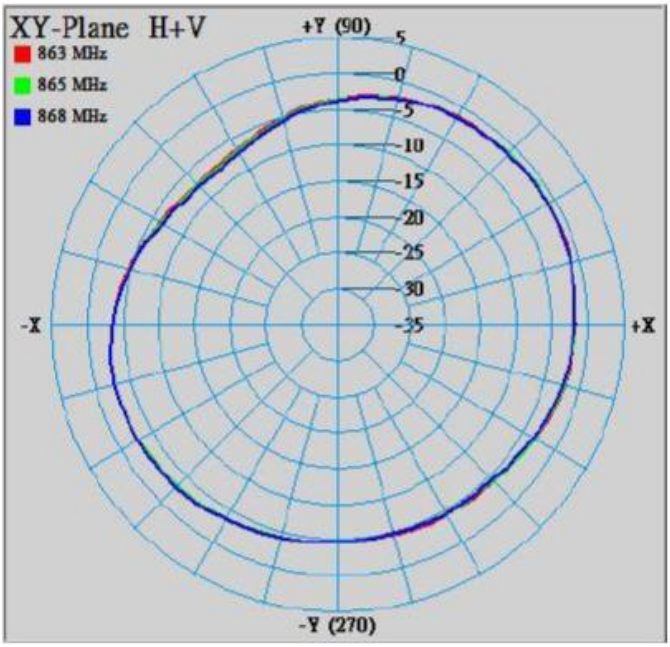
Gain . dB



X-Y Plane

Theta=90.00deg

Gain . dB



	ZX plane		ZY plane		XY plane	
Frequency [MHz]	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