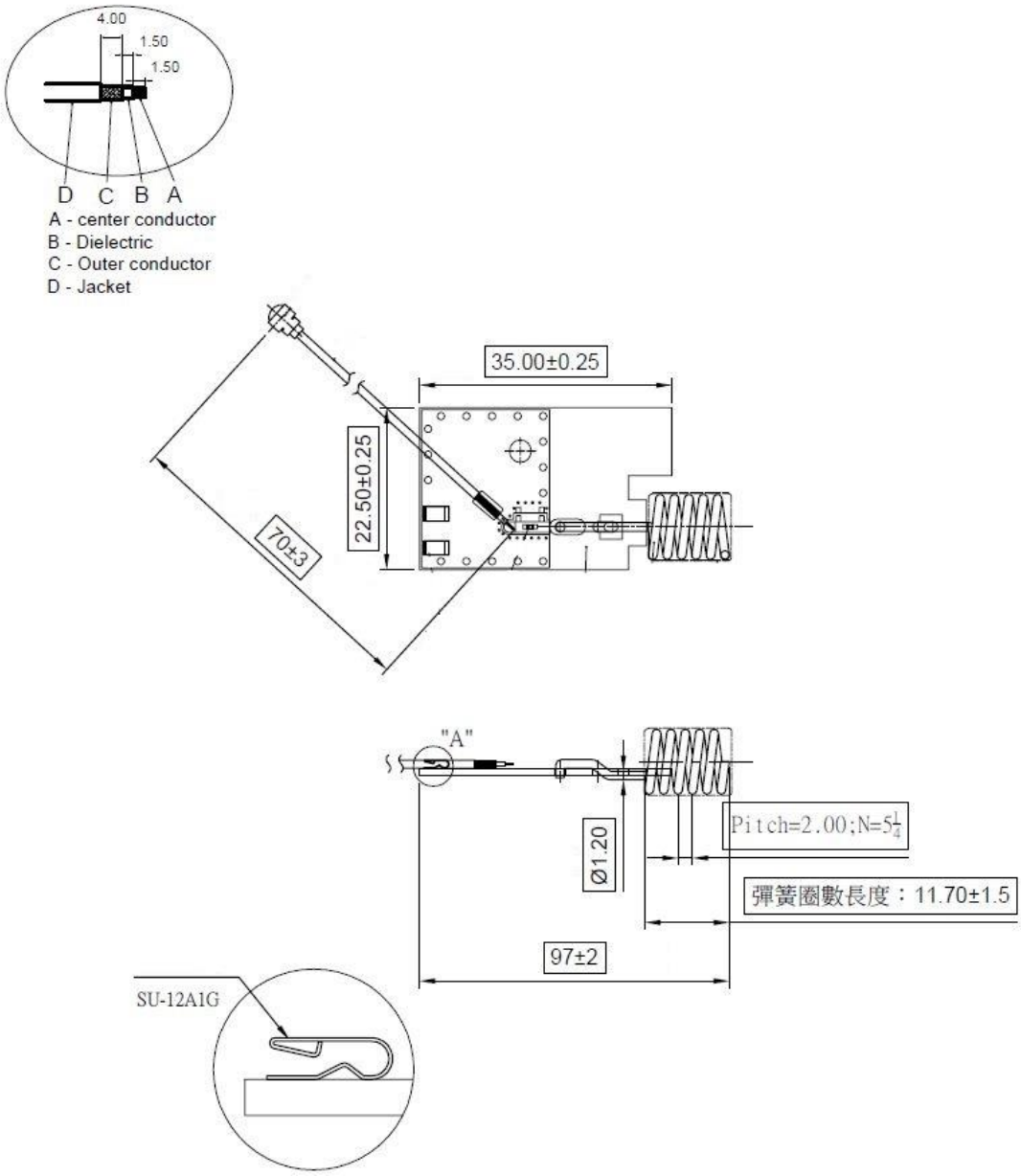
ELECTRICAL SPECIFICATION

PARAMETERS		VALUE	UNIT
Center Frequency		915	MHz
Return Loss, max		-10	dB
VSWR, max		2.0	-
Peak Gain		13	dBi
Polarization		Linear Vertical	-
Radiation		Omni-Directional	-
Impedance		50	Ω
Admitted Power		1	W
Antenna Material		Brass Ø1.2	-
Operating Temperature Range		-20 ~ +65	°C
Antenna		FR4	-
	T	1.0	mm
Cable	Type	Ø1.13	-
	Color	Black	-
Connector		IPEX Compatible	-
Spring		Brass	-
Heat Shrink Tube		CB-HFT (Ø10*L12*T0.15) Black	-
Inductor		6.8	nH

DIMENSIONS

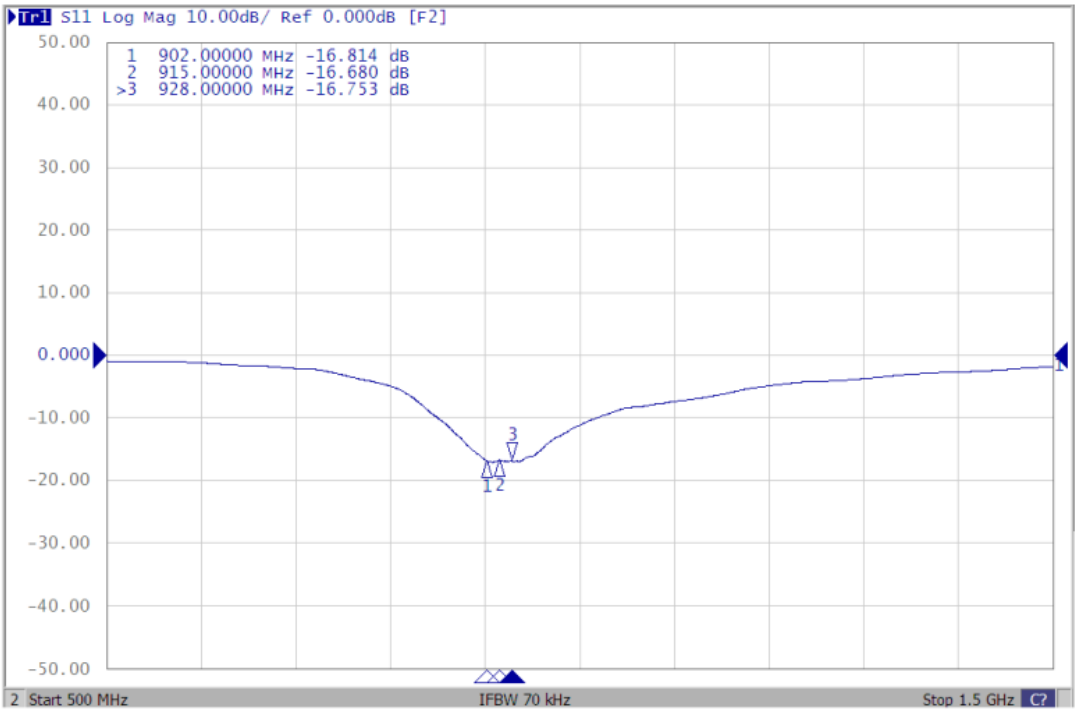


Unit: mm

FREQUENCY CHARACTERISTICS

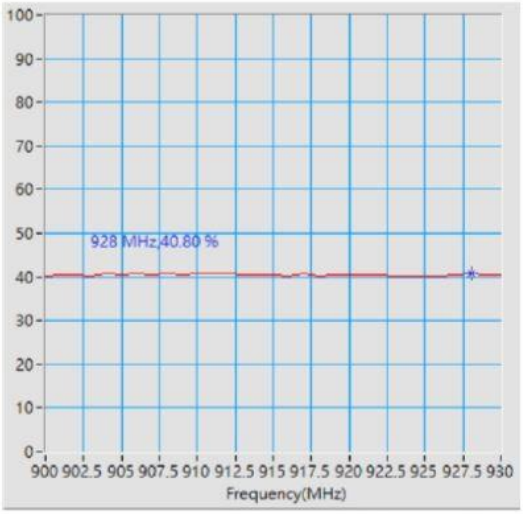
PCB+COIL

Return Loss

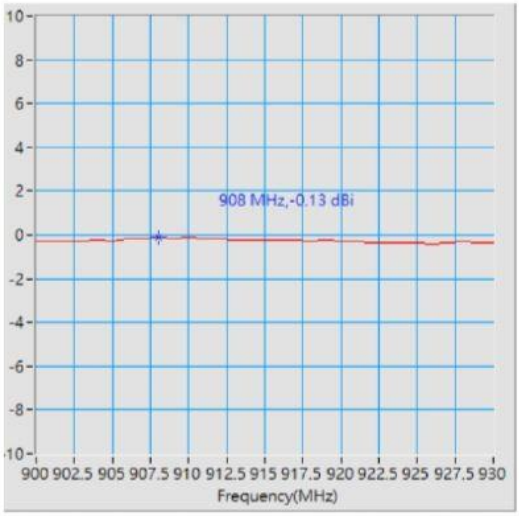


ANTENNA EFFICIENCY AND PEAK GAIN

PCB+COIL



Maximum Efficiency at 928MHz : 40.80%



Maximum Peak Gain at 908MHz : -0.13dBi

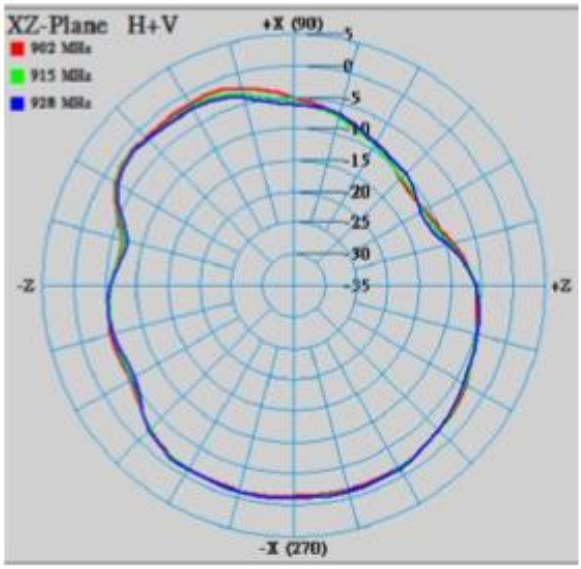
2D RADIATION PATTERN

PCB+COIL

X-Z Plane

Phi=0.00deg

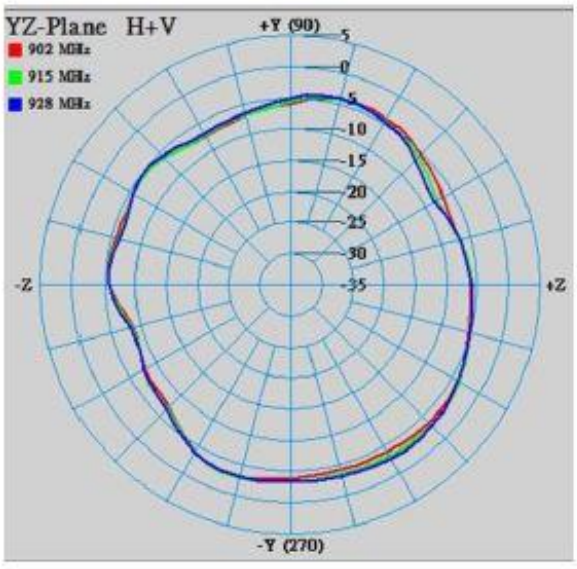
Gain . dB



Y-Z Plane

Phi=90.00deg

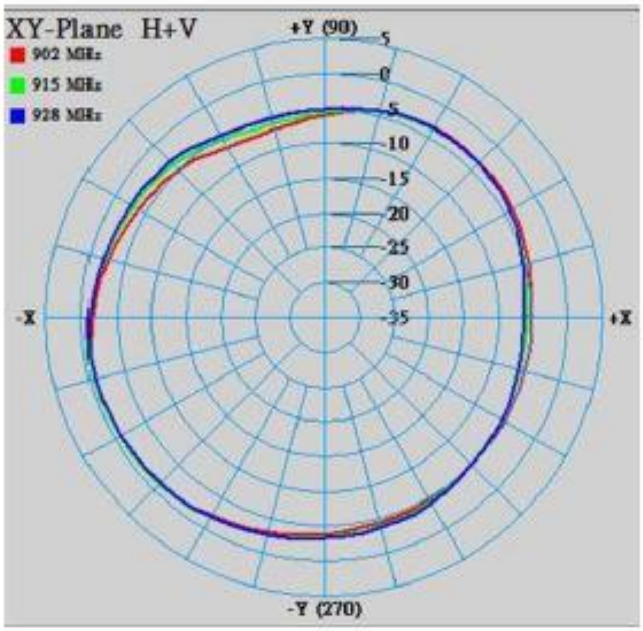
Gain . dB



X-Y Plane

Theta=90.00deg

Gain . dB



	ZX plane		ZY plane		XY plane	
Frequency [MHz]	Max Value [dB]	Average [dB]	Max Value [dB]	Average [dB]	Max Value [dB]	Average [dB]
902	-1.17	-3.64	-2.85	-5.32	-0.81	-3.63
915	-1.00	-3.75	-2.88	-5.20	-0.64	-3.45
928	-1.07	-3.84	-2.64	-5.09	-0.82	-3.36

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
	B, AR, March 01, 2024 Updated the electronic component (Inductor)