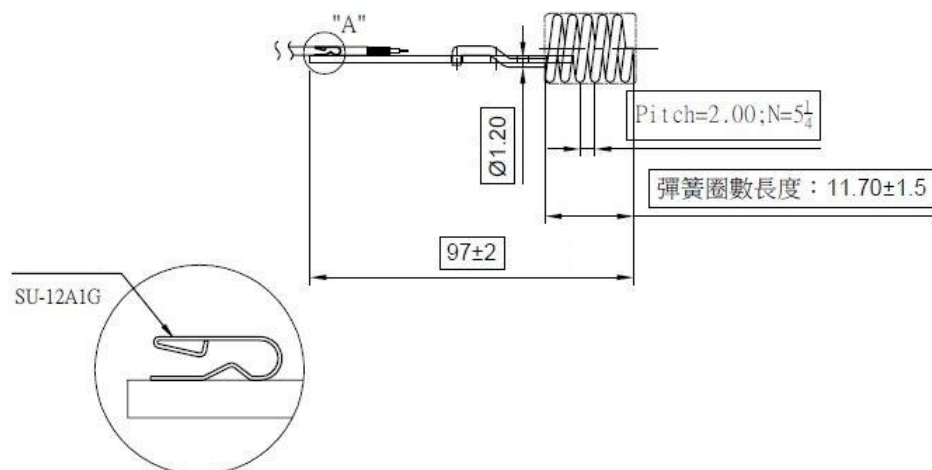
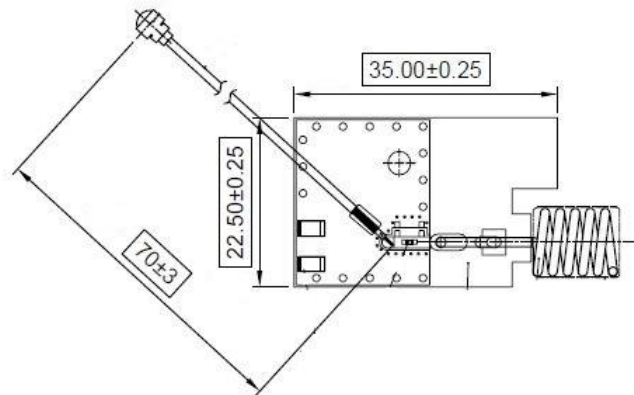
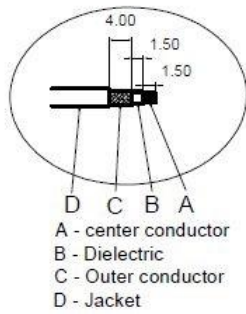


■ ELECTRICAL SPECIFICATION

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 \emptyset 1.2	-	
Operating Temperature Range	-20 ~ +65	$^{\circ}$ C	
Antenna	FR4	-	
	T	1.0	mm
Cable	Type	\emptyset 1.13	-
	Color	Black	-
Connector	IPEX Compatible	-	
Spring	Brass	-	
Heat Shrink Tube	CB-HFT (\emptyset 10*L12*T0.15) Black	-	
Capacitor	6.8	nH	

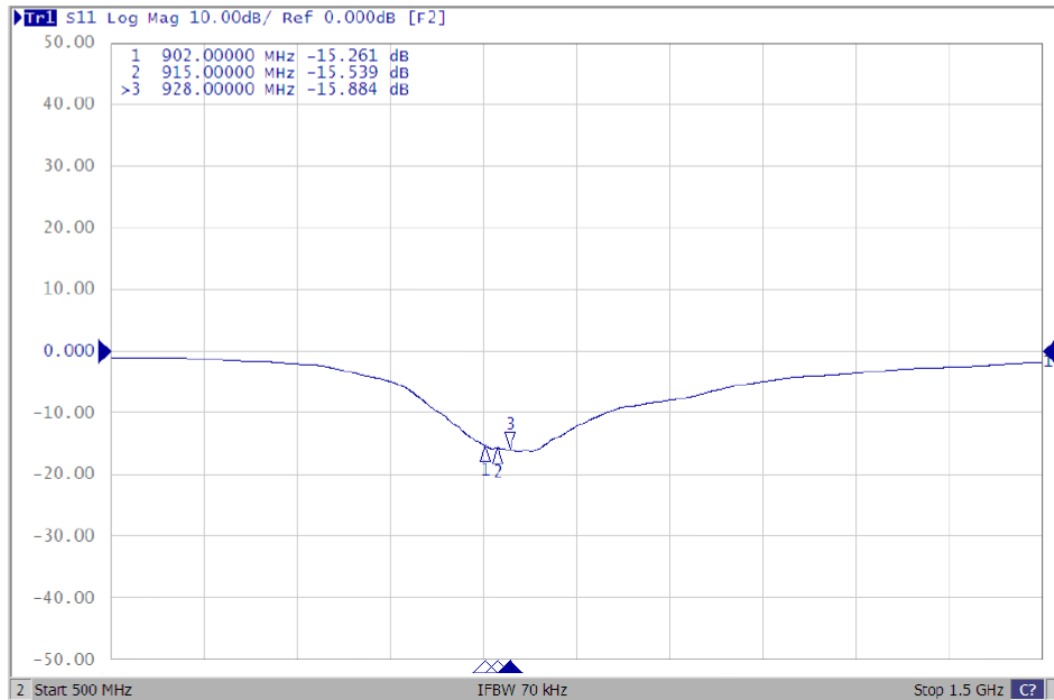
■ DIMENSIONS



Unit: mm

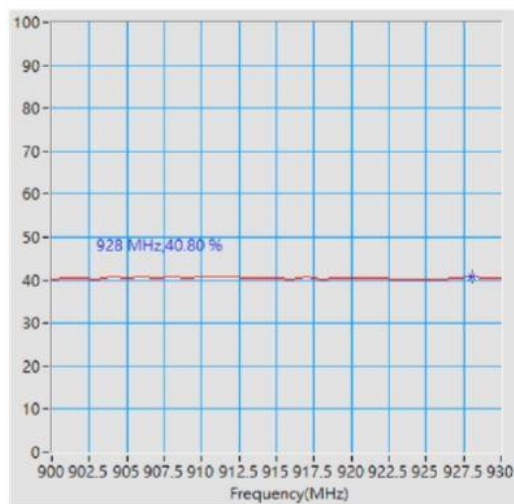
FREQUENCY CHARACTERISTICS

COIL Return Loss

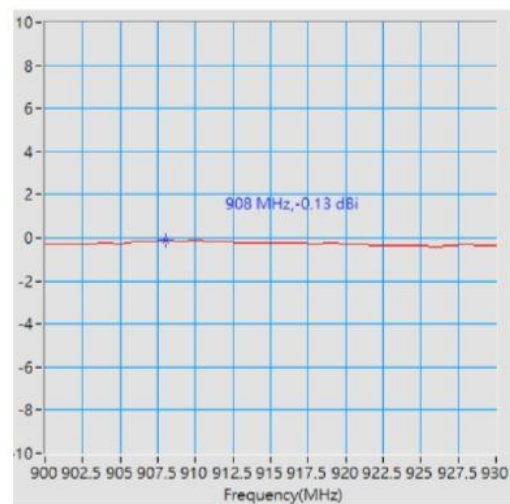


ANTENNA EFFICIENCY AND PEAK GAIN

PCB+COIL



Maximum Efficiency at 928MHz : 40.80%



Maximum Peak Gain at 908MHz : -0.13dBi

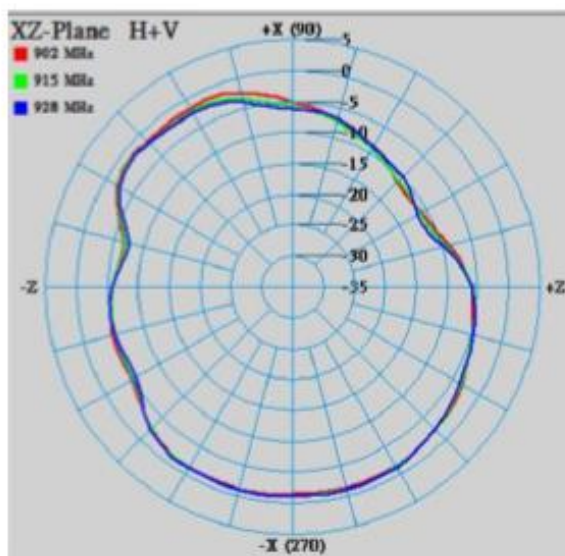
2D RADIATION PATTERN

PCB+COIL

X-Z Plane

Phi=0.00deg

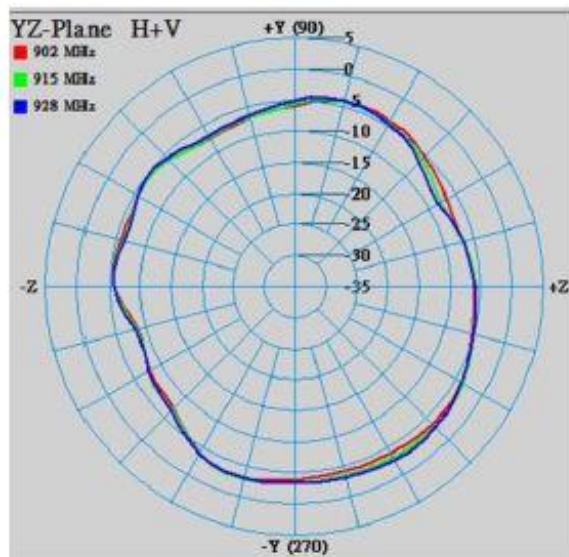
Gain . dB



Y-Z Plane

Phi=90.00deg

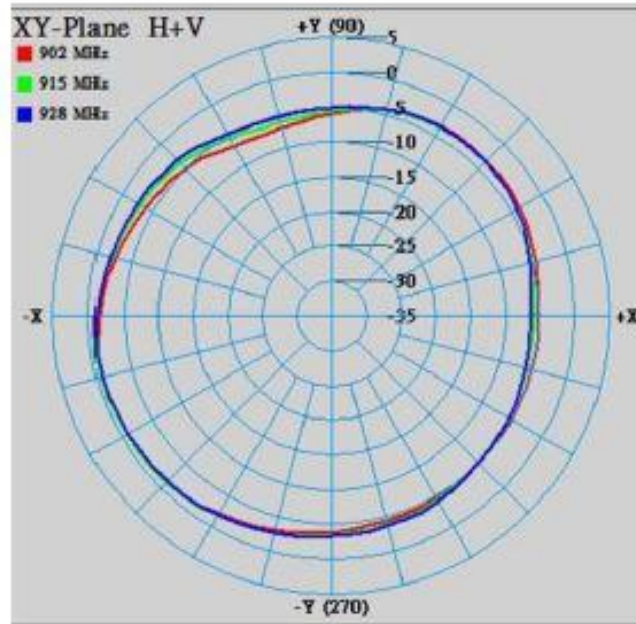
Gain . dB



X-Y Plane

Theta=90.00deg

Gain . dB



Frequency [MHz]	ZX plane		ZY plane		XY plane	
	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

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