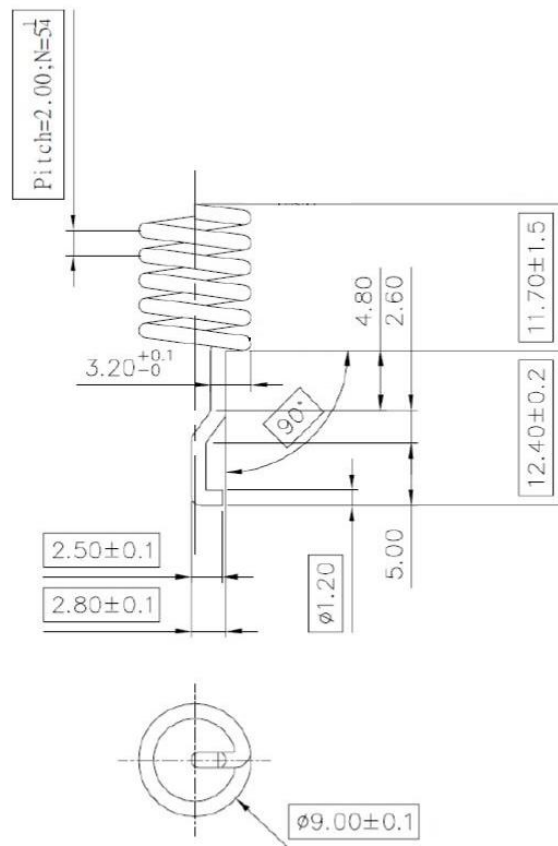


#### ELECTRICAL SPECIFICATION

PARAMETERS	VALUE	UNIT
Center Frequency	868	MHz
Return Loss, max	-10	dB
VSWR, max	2.0	-
Peak Gain	-1.23	dBi
Polarization	Linear Vertical	-
Radiation	Omni-Directional	-
Impedance	50	$\Omega$
Operating Temperature Range	-20 ~ +65	$^{\circ}\text{C}$

#### DIMENSIONS

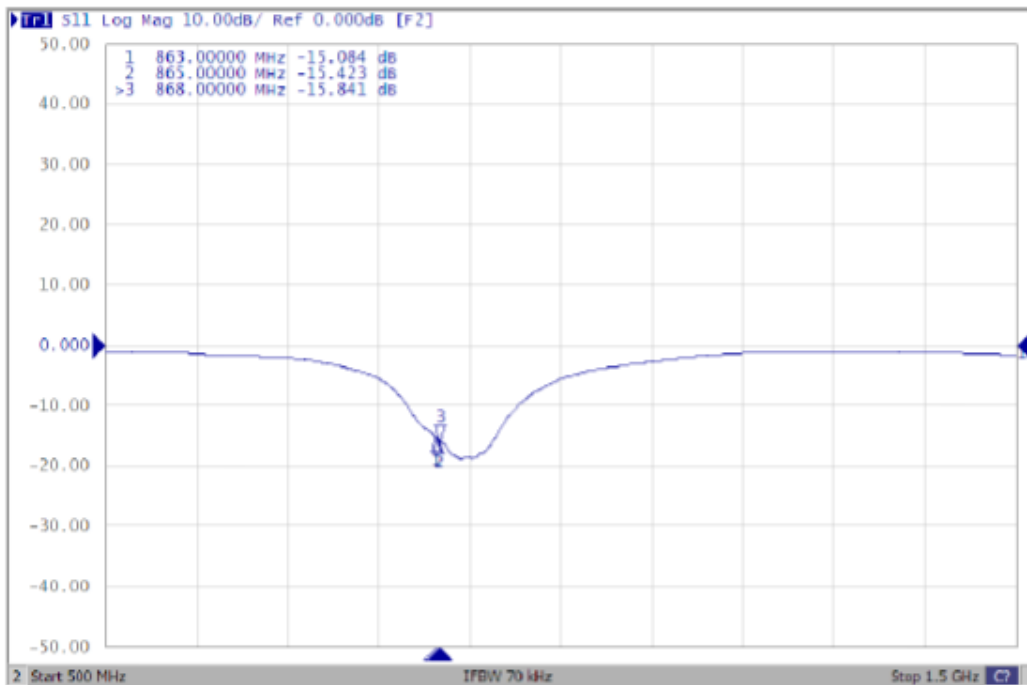


Unit: mm

#### FREQUENCY CHARACTERISTICS

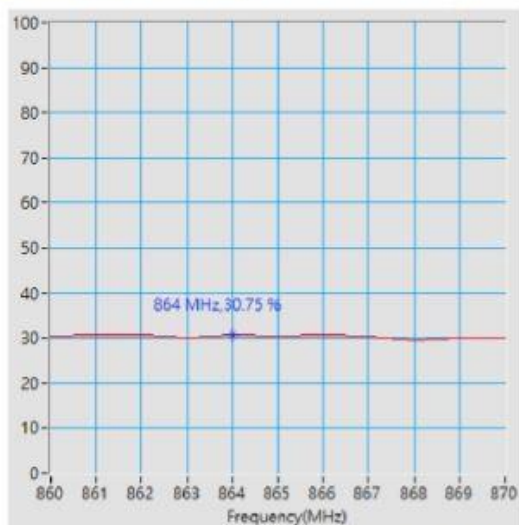
##### COIL

##### Return Loss

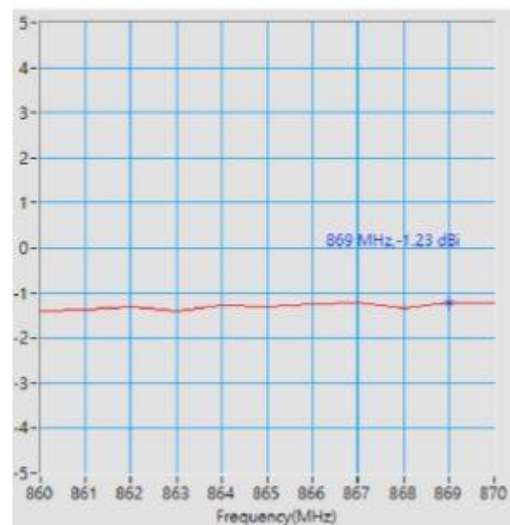


#### ANTENNA EFFICIENCY AND PEAK GAIN

##### COIL



Maximum Efficiency at 864 MHz : 30.75 %



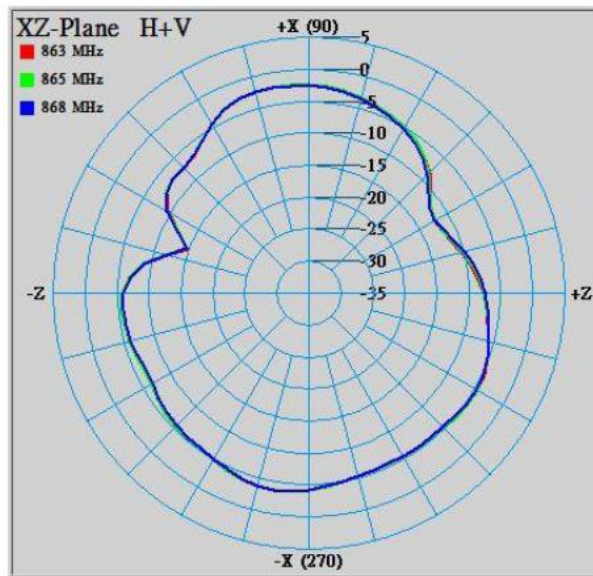
Maximum Peak Gain at 869 MHz : -1.23 dBi

#### 2D RADIATION PATTERN

COIL  
X-Z Plane

Phi=0.00deg

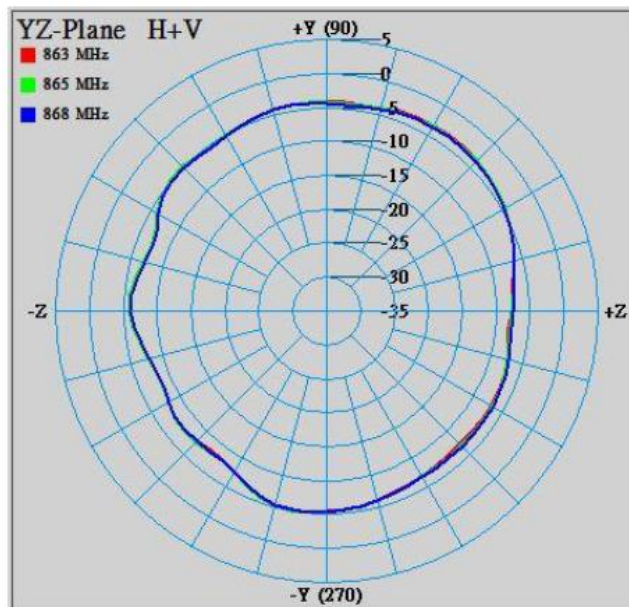
Gain . dB



Y-Z Plane

Phi=90.00deg

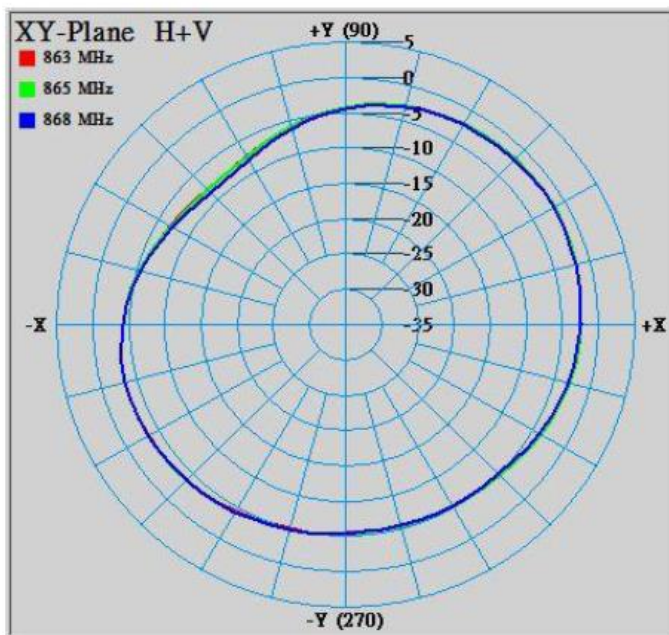
Gain . dB



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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