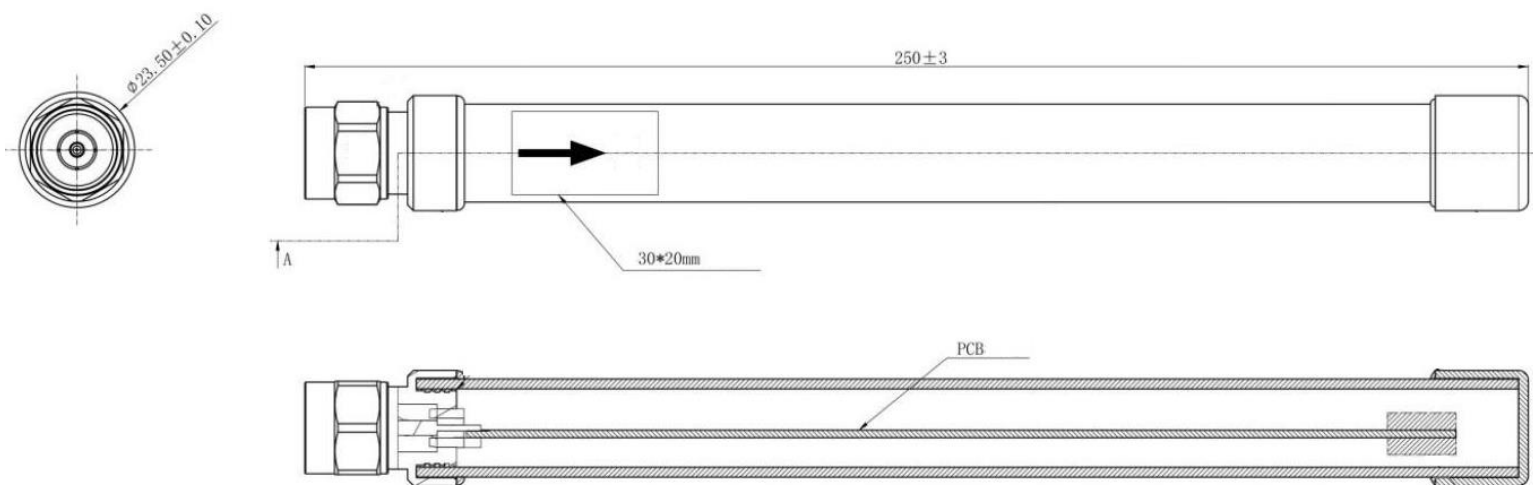


#### ELECTRICAL SPECIFICATION

PARAMETER	VALUE	UNIT
Frequency Range	5850 ~ 5930	MHz
VSWR	2	-
Efficiency, min	60	%
Polarization	Vertical	-
Impedance	50	$\Omega$
Gain, min	6.7	dBi
Out of Roundness	2.81	m
3dB beamwidth, min	Toward the ground	$^{\circ}$
Operating Temperature Range	-40 ~ +85	$^{\circ}\text{C}$
Storage Temperature Range	-40 ~ +90	$^{\circ}\text{C}$
Antenna	Low Loss	mm
Antenna Housing	Glass Fiber Tube 200	mm
Size PCB	190 x 10 x 1.2	mm
Connector	N Male	-

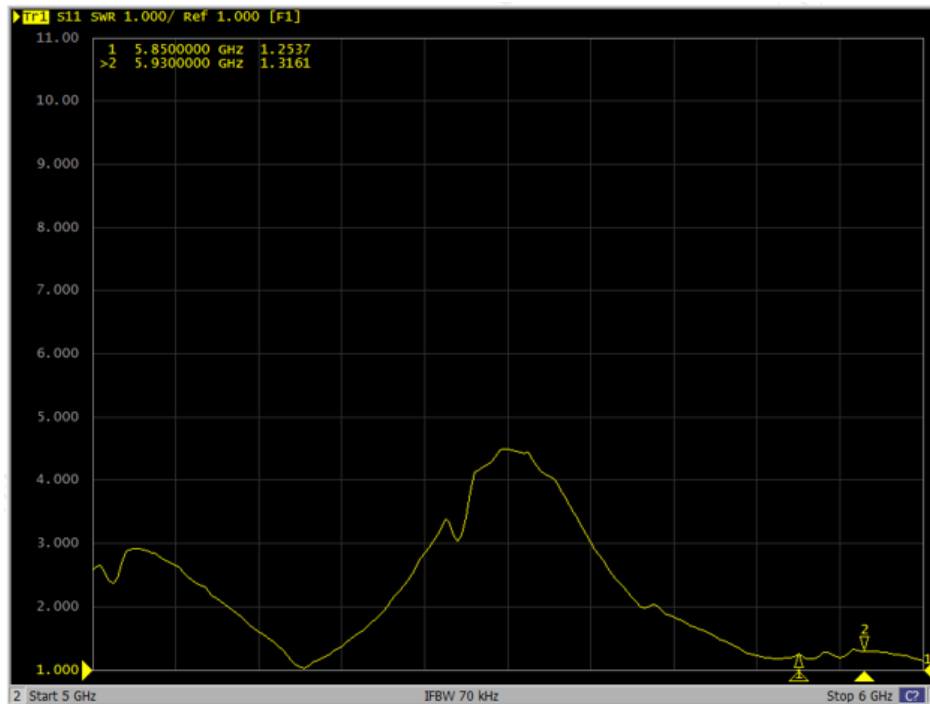
#### DIMENSIONS



Unit: mm

#### FREQUENCY CHARACTERISTICS

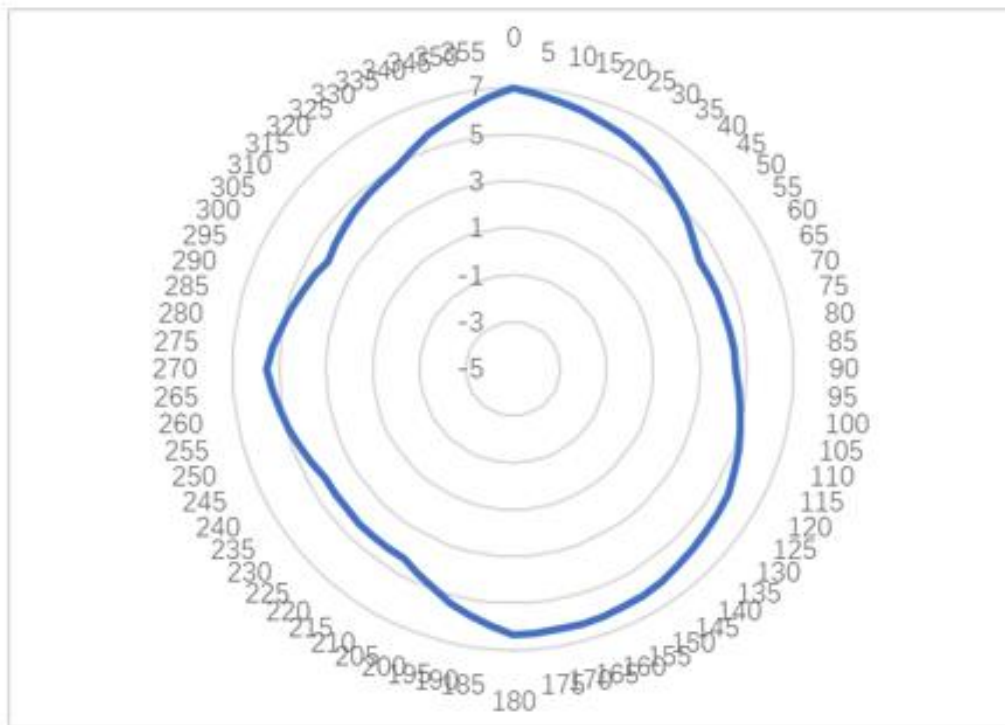
##### LNA VSWR



##### EFFICIENCY & GAIN

Frequency (MHz)	Efficiency (dB)	Efficiency (%)	Gain (dBi)
5850	-1.5	70.7	7.2
5855	-1.5	70.2	7.3
5860	-1.4	71.8	7.4
5865	-1.7	68.4	7.2
5870	-1.9	65.3	7.0
5875	-1.8	66.7	7.0
5880	-1.6	68.8	7.0
5885	-1.9	64.9	6.8
5890	-1.7	67.2	6.9
5895	-1.7	67.1	6.8
5900	-1.6	69.7	7.0
5905	-1.6	69.9	6.9
5910	-1.4	71.8	7.0
5915	-1.5	70.8	7.0
5920	-1.6	69.8	6.9
5925	-1.4	71.9	6.9
5930	-1.4	72.7	6.9

■ RADIATION PATTERN & OUT OF ROUNDNESS



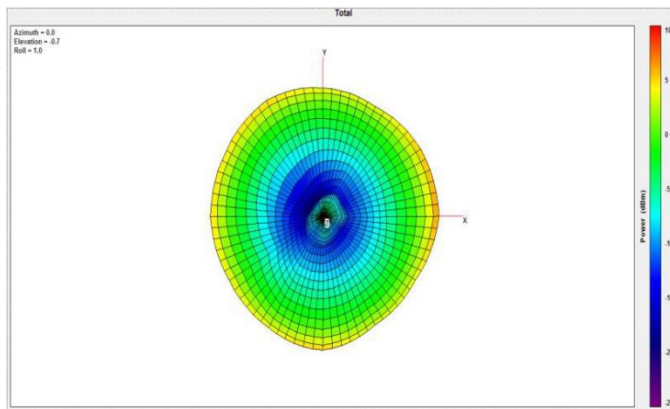
2D Radiation pattern@5900MHz

Out of roundness (dBi)	MAX	MIN
	6.97	4.16
2.81		

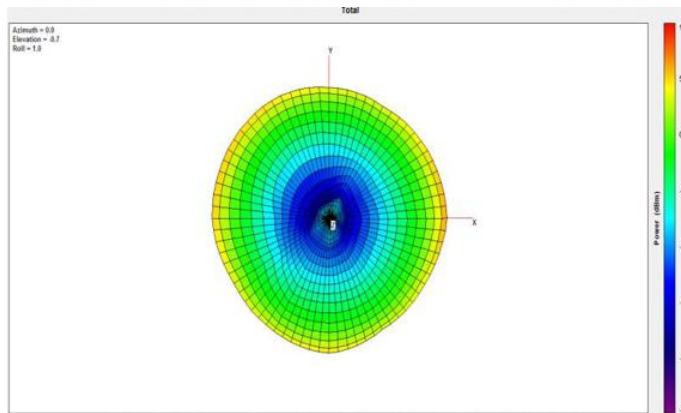
5900MHz-Theta 90°

#### ■ 3D RADIATION PATTERN

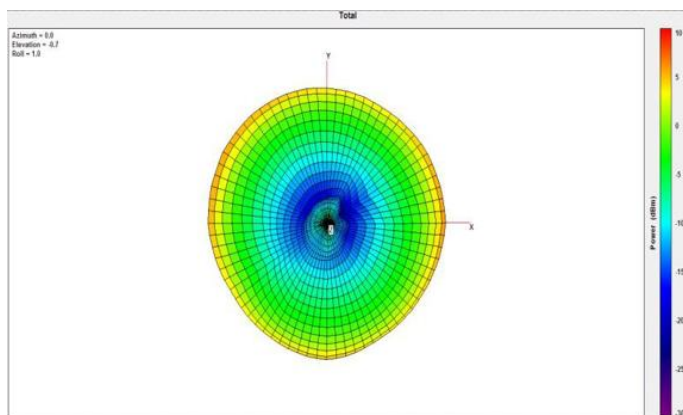
5850 MHz



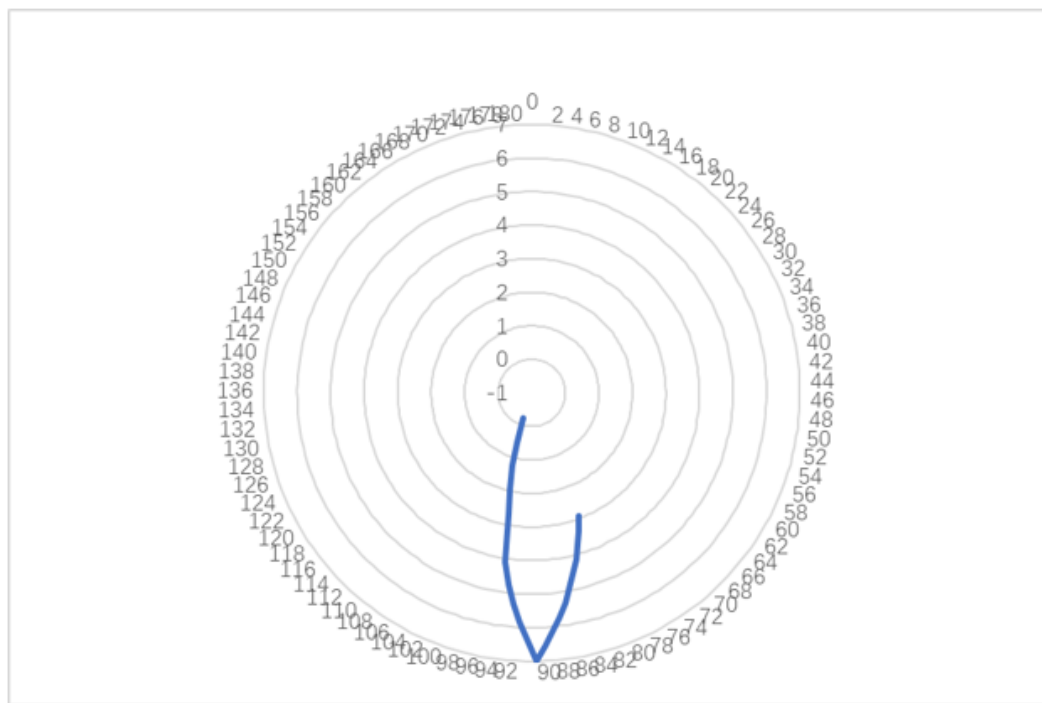
5900 MHz



5930 MHz



■ 3dB Beamwidth (Toward the Ground)



Theta 80-100°-3dB beamwidth

Frequency (MHz)													
5900	Theta An	85	86	87	88	89	90	91	92	93	94	95	
	Phi Angl	Power (	Power (	Power (	Power (	Power (	Power (	Power (	Power (	Power (	Power (	Power (	Power (
	0	4.95	5.35	5.76	6.17	6.57	6.98	6.42	5.86	5.31	4.75	4.11	

■ ENVIRONMENTAL

PARAMETER	VALUE
RoHS	Compliant
REACH SVHC	Compliant
HALOGEN-FREE	Compliant



■ APPROVAL

RALTRON	
DRAWN BY:	AR, October 17, 2023
APPROVED BY:	CP, October 17, 2023
REVISION:	A, Initial Release



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