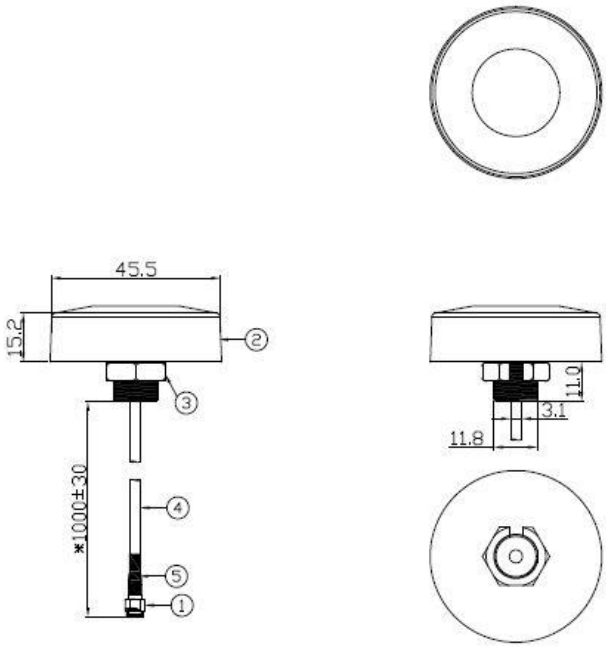
RDM-W5C9-4515-RP1M-GE-001

ELECTRICAL SPECIFICATION

PARAMETER		VALUE		UNIT
Frequency Range		2400 ~ 2500	5150 ~ 5850	MHz
Polarization		Linear		-
Radiation Pattern		Omni-Directional		-
Peak Gain	@ 2400 ~ 2500 MHz	4.0		dBi
	@ 5150 ~ 5850 MHz	5.0		
VSWR, max	@ 2400 ~ 2500 MHz	2.0		-
	@ 5150 ~ 5850 MHz	2.5		-
Impedance		50		Ω
Connector		SMA Male Reverse		-
Material of Radiator		PCB		-
Operating Temperature Range		-40 ~ +70		˚C
Storage Temperature Range		-40 ~ +80		˚C
RoHS Compliant		YES		-



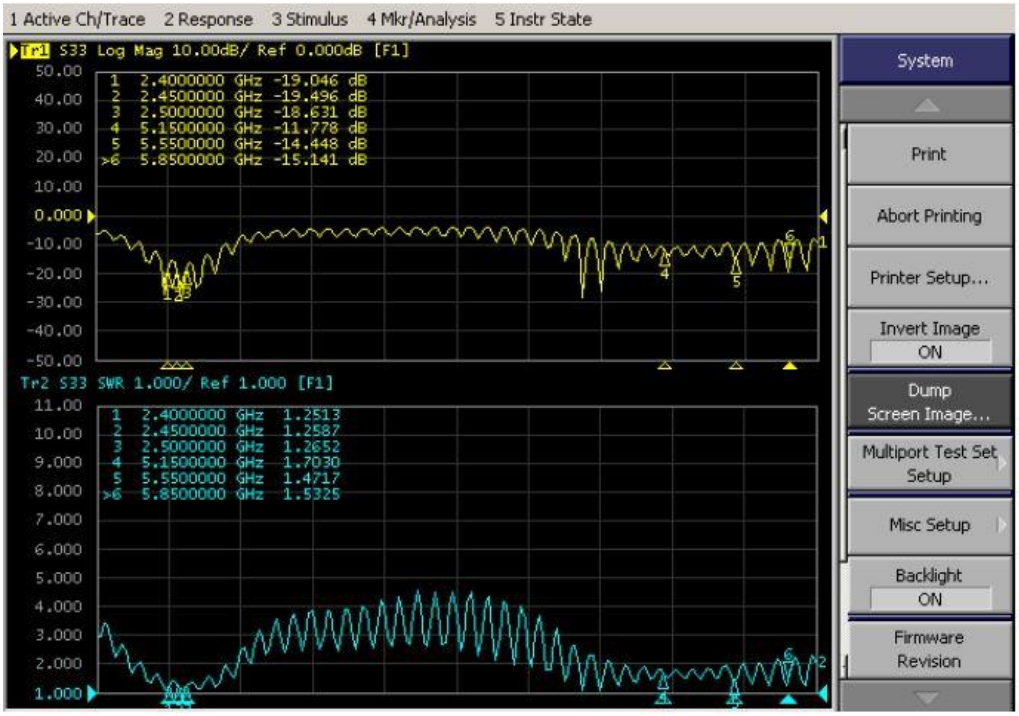
DIMENSIONS



Unit: mm

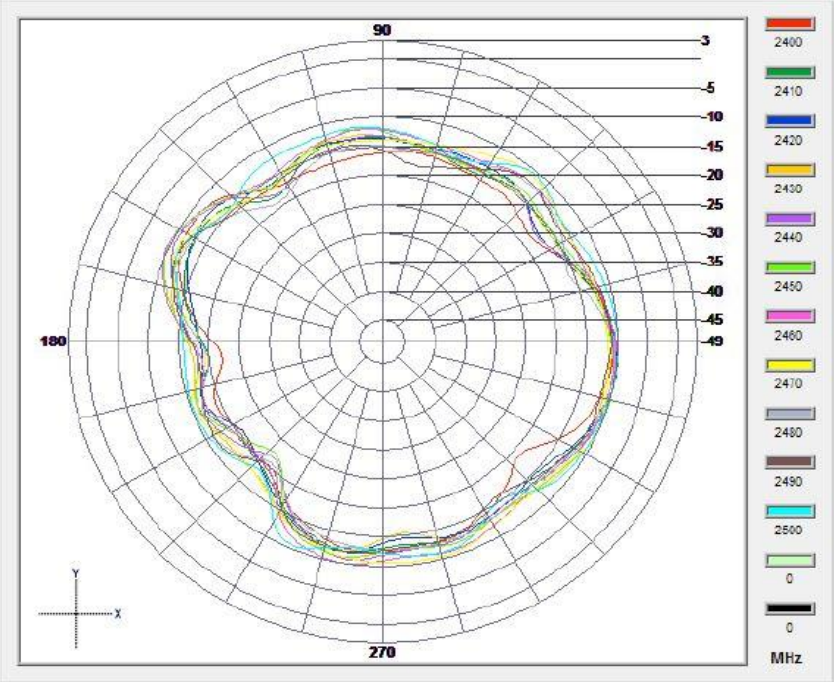
FREQUENCY CHARACTERISTICS

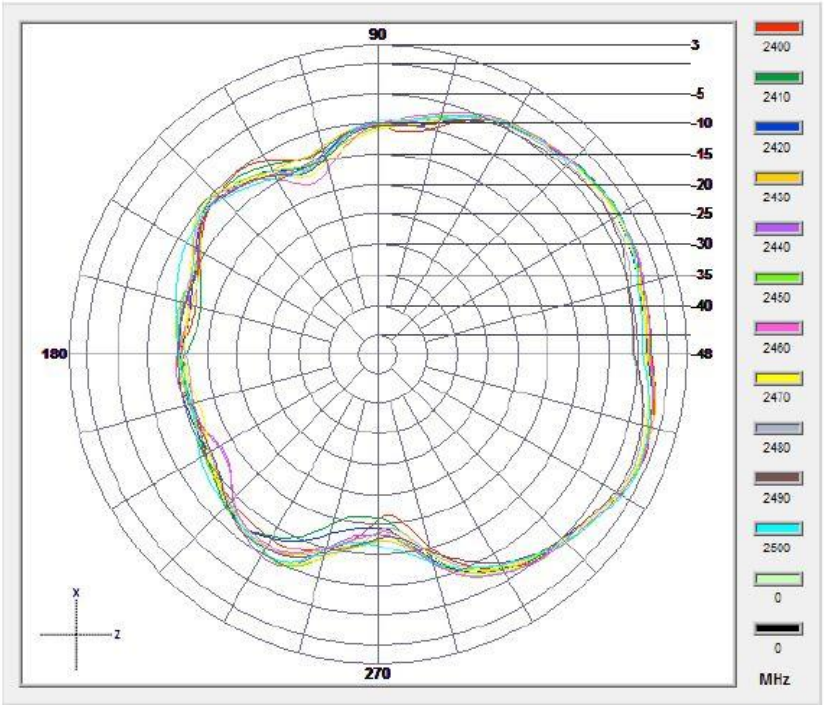
S-Parameter

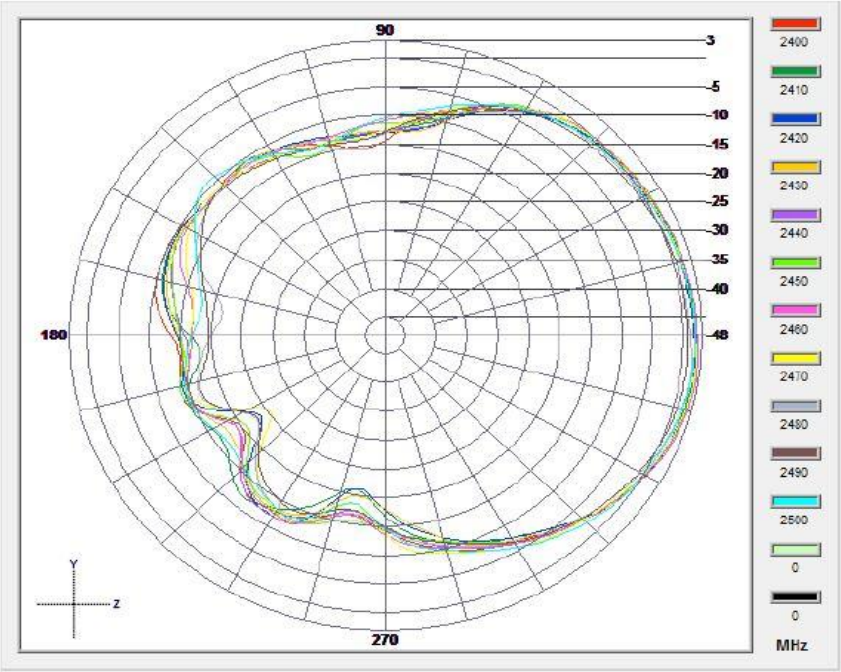


RADIATION PATTERN

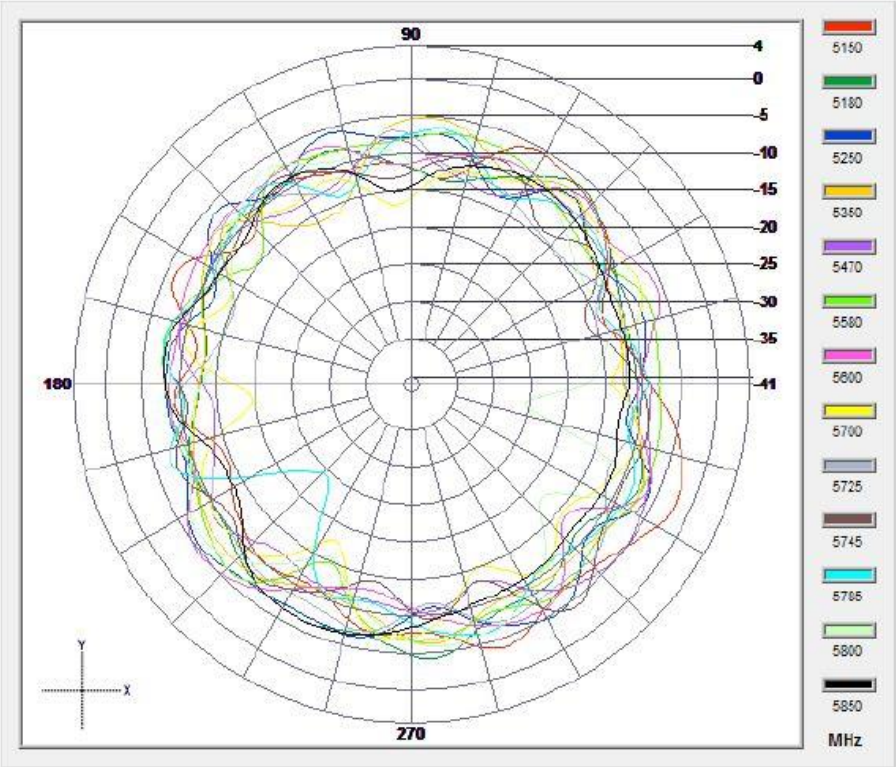
Frequency	2400	2410	2420	2430	2440	2450	2460	2470	2480	2490	2500
Peak Gain (dBi)	2.93	2.76	2.61	3.02	2.99	3.12	2.83	2.88	2.18	1.09	2.37
Efficiency (%)	23.34	22.41	21.86	23.29	23.7	24.24	24.39	23.07	19.96	18.74	22.9
Average Gain (dB)	-6.32	-6.5	-6.6	-6.33	-6.25	-6.15	-6.13	-6.37	-7	-7.27	-6.4

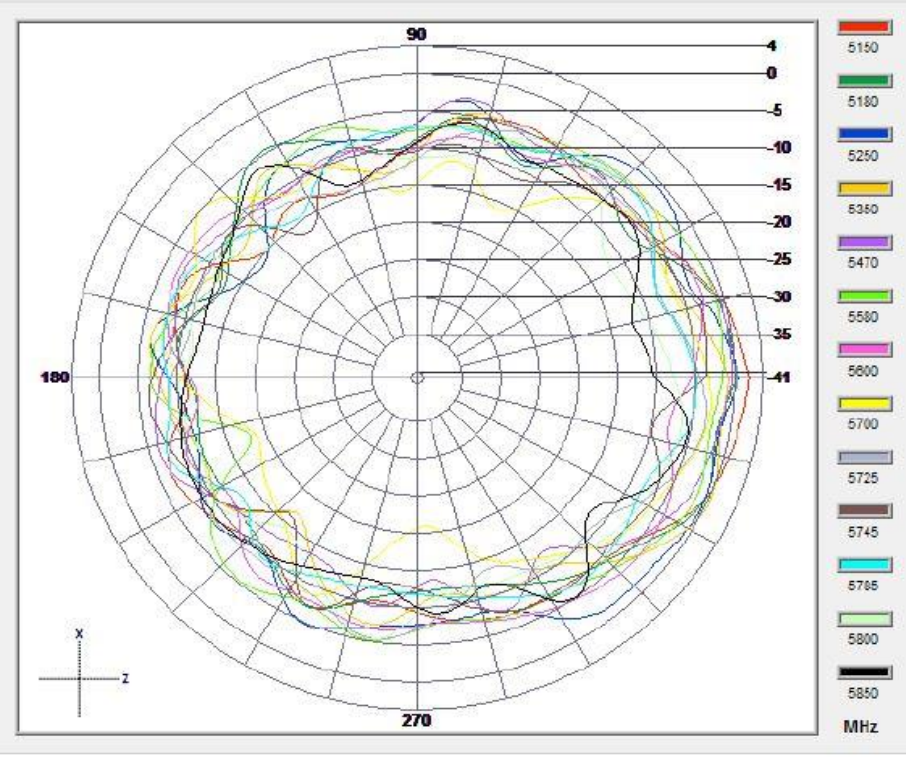

90
180
270
3
-5
-10
-15
-20
-25
-30
-35
-40
-45
-49
2400
2410
2420
2430
2440
2450
2460
2470
2480
2490
2500
0
0
MHz

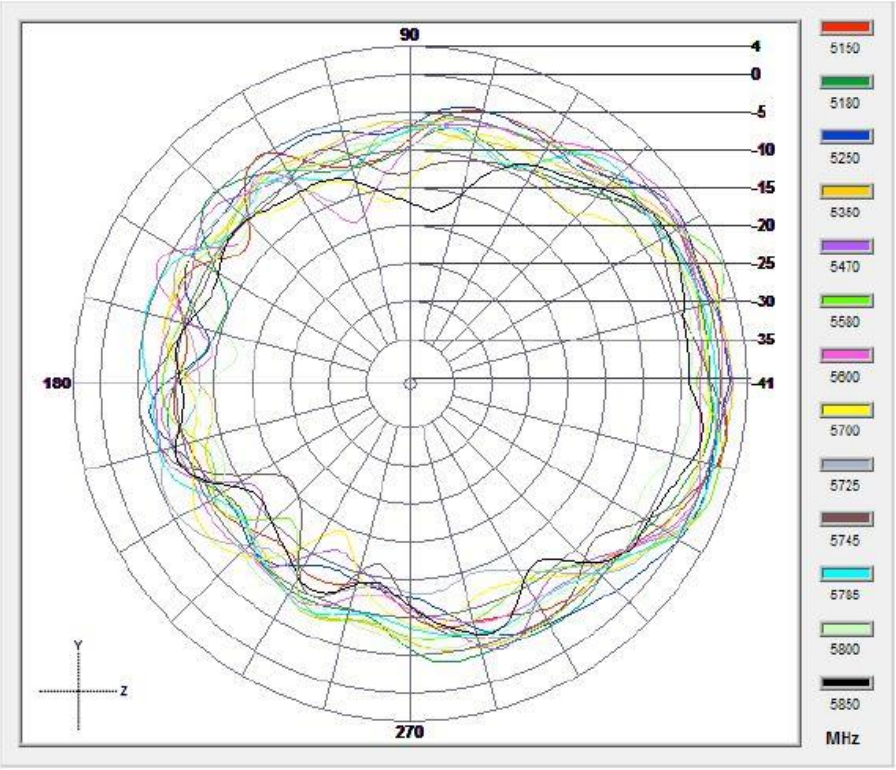

90
180
270
3
-5
-10
-15
-20
-25
-30
-35
-40
-48
2400
2410
2420
2430
2440
2450
2460
2470
2480
2490
2500
0
0
MHz



Frequency	5150	5180	5250	5350	5470	5580	5600	5700	5725	5745	5785	5800	5850
Peak Gain (dBi)	4.02	2.28	3.72	2.88	2.77	4.66	2.88	0.59	2.07	2.56	1.12	-0.16	-0.86
Efficiency (%)	29.37	20.7	32.83	27.57	26.37	28.61	26.35	17.25	18.21	17.21	22.6	15.75	14.5
Average Gain (dB)	-5.32	-6.84	-4.84	-5.6	-5.79	-5.43	-5.79	-7.63	-7.4	-7.64	-6.46	-8.03	-8.39


90
180
270
4
0
-5
-10
-15
-20
-25
-30
-35
-41
5150
5180
5250
5350
5470
5580
5600
5700
5725
5745
5785
5800
5850
MHz


90
180
270
4
0
-5
-10
-15
-20
-25
-30
-35
-41
5150
5180
5250
5350
5470
5580
5600
5700
5725
5745
5785
5800
5850
MHz



ENVIRONMENTAL

PARAMETER	VALUE
RoHS	Compliant
REACH SVHC	Compliant
HALOGEN-FREE	Compliant

APPROVAL

RALTRON	
DRAWN BY:	AR, August 01, 2022
APPROVED BY:	CP, August 01, 2022
REVISION:	A, Initial Release
	B, AR, November 07, 2022 Updated dimensions

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