



■ ELECTRICAL SPECIFICATION

GPS ANTENNA

Parameters	Value	Unit
Frequency Range	1575.420 $\pm$ 3	MHz
Band Width	CF $\pm$ 5	MHz
Polarization	RHCP	-
Gain (Zenith)	2.0	dBic
VSWR, max	1.5	-
Impedance	50	Ω
Axial Ratio, max	3	dB

LNA

Parameters	Value	Unit
Gain, typ	28 $\pm$ 2	dB
Noise Figure, max	1.5	dB
VSWR, max	2.0	-
Supply Voltage	2.2 ~ 5	VDC
Current Consumption, max	15	mA

GSM ANTENNA

Parameters	Value		Unit
Frequency Range	824 ~ 960	1710 ~ 2170	MHz
Polarization	Linear		-
Gain	2.0		dBi
VSWR, max	2.0		-
Impedance	50		Ω

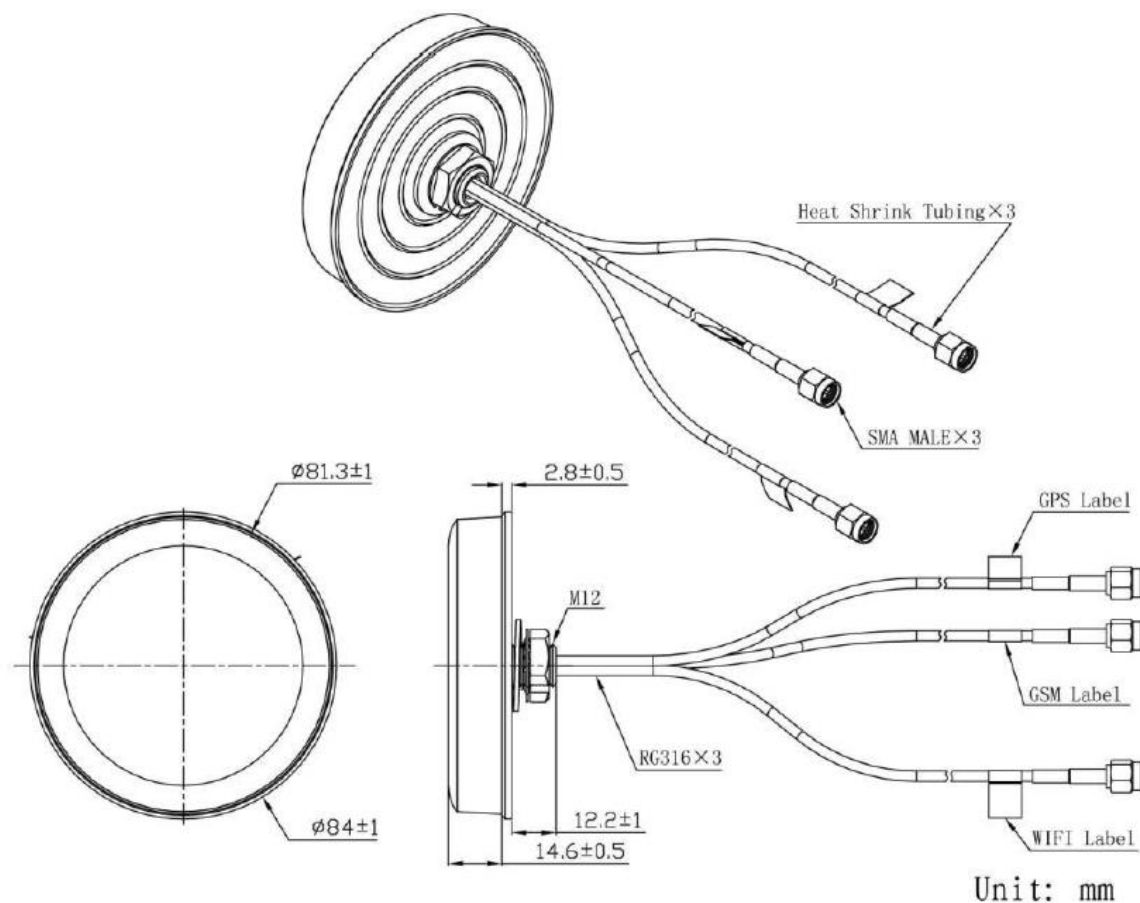
WIFI ANTENNA

Parameters	Value	Unit
Frequency Range	2400 ~ 2483.5	MHz
Band Width	83.5	MHz
Polarization	Linear	-
Gain	3.0	dBi
VSWR, max	2.0	-
Impedance	50	Ω

MECHANICAL SPECIFICATION

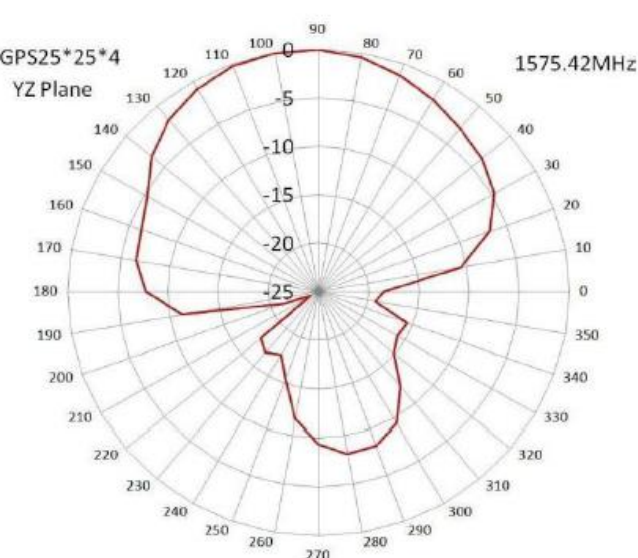
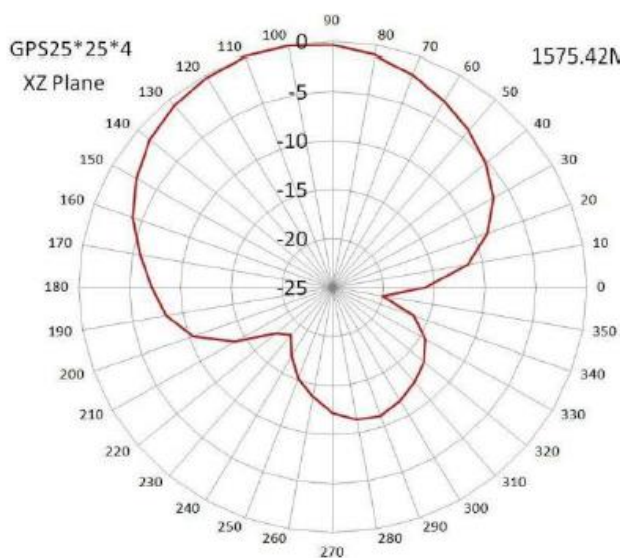
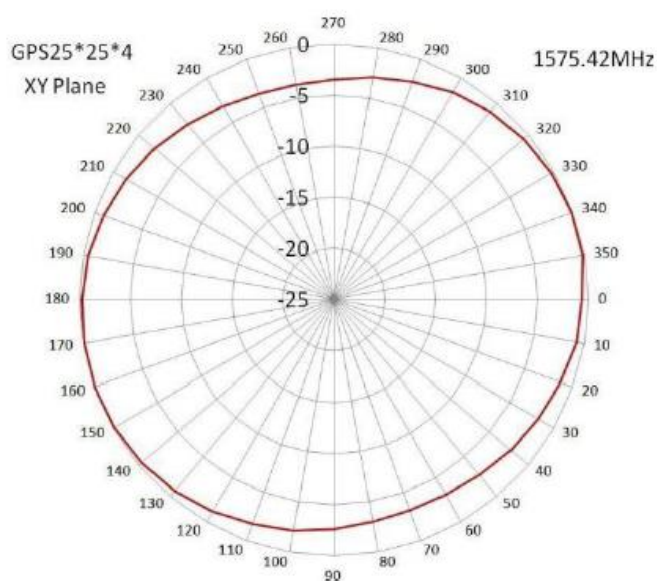
Parameters		Value	Unit
Connector		SMA	-
Cable		RG174	-
Radome Material		ABS	-
Mounting Method		Screw	-
Operating Temperature Range		-40 ~ +85	°C
Relative Humidity, max		95	%
Ingress Protection	@ Exclude Cable Outlet	IP65 ~ IP66	-
Vibration	@ 1.5 mm amplitude 2hours	10 ~ 55	Hz
ROHS Compliant		YES	-

DIMENSIONS

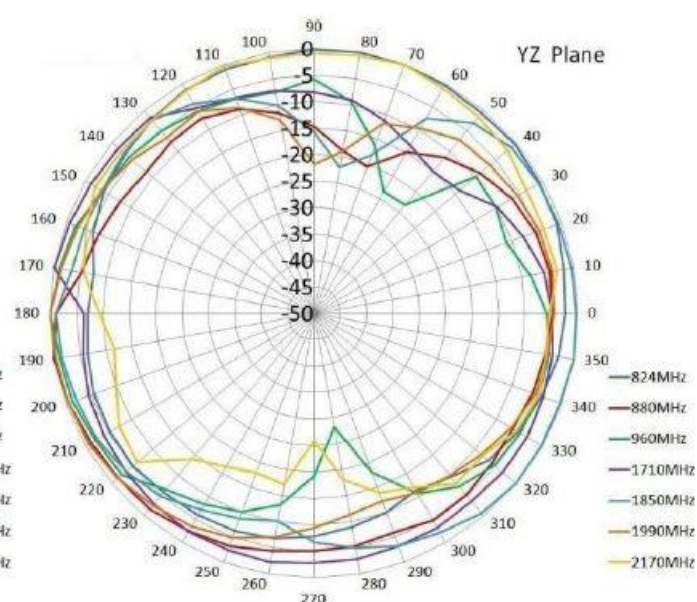
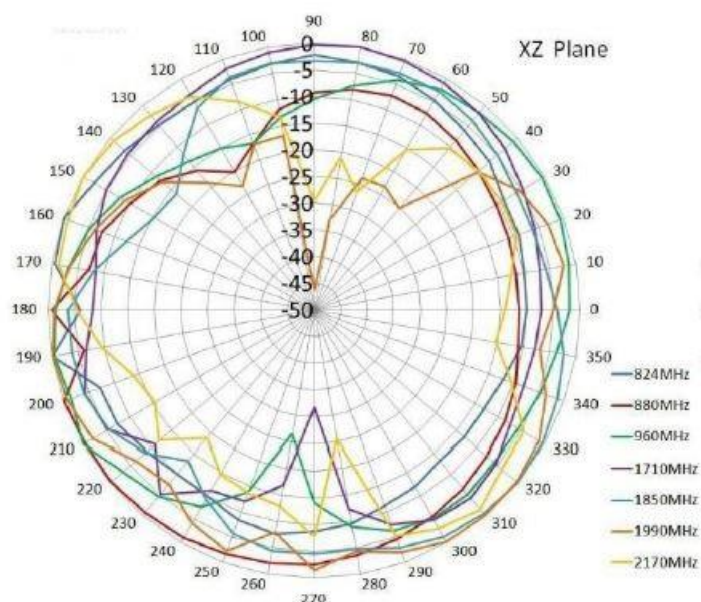
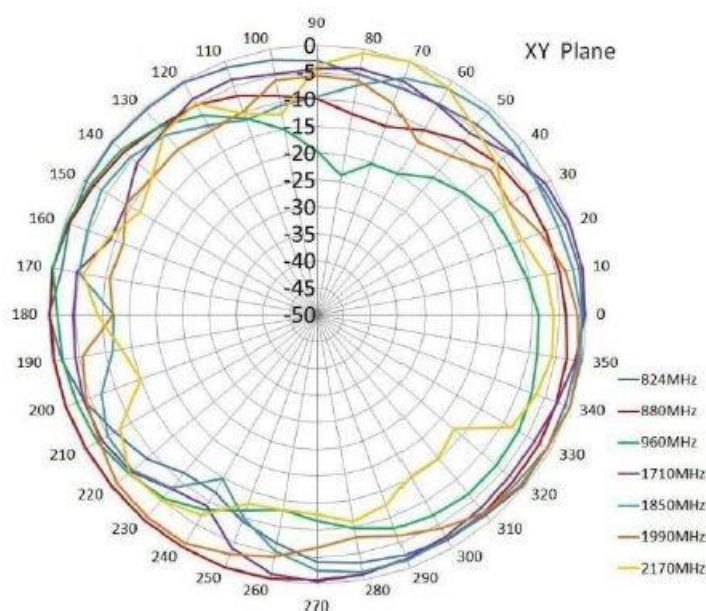


■ **RADIATION PATTERN**

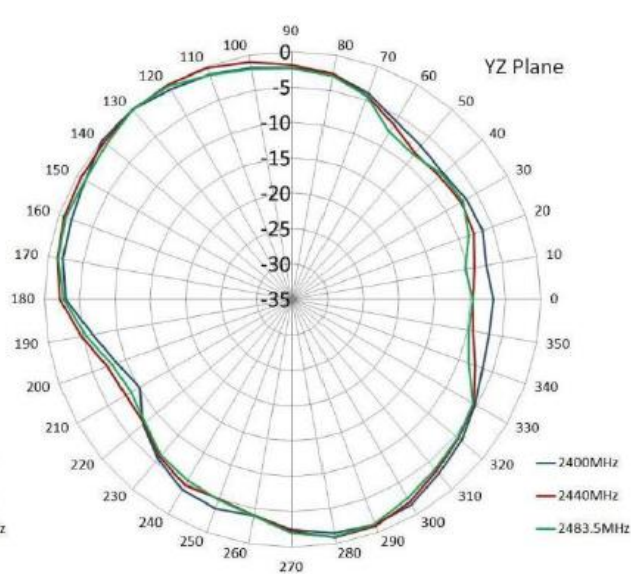
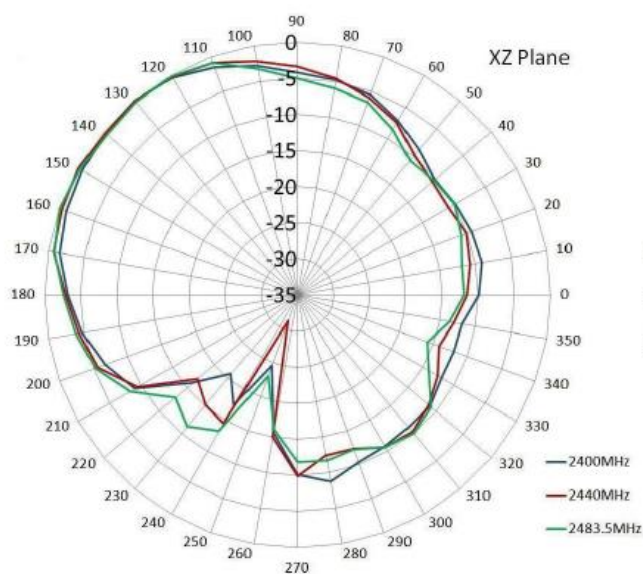
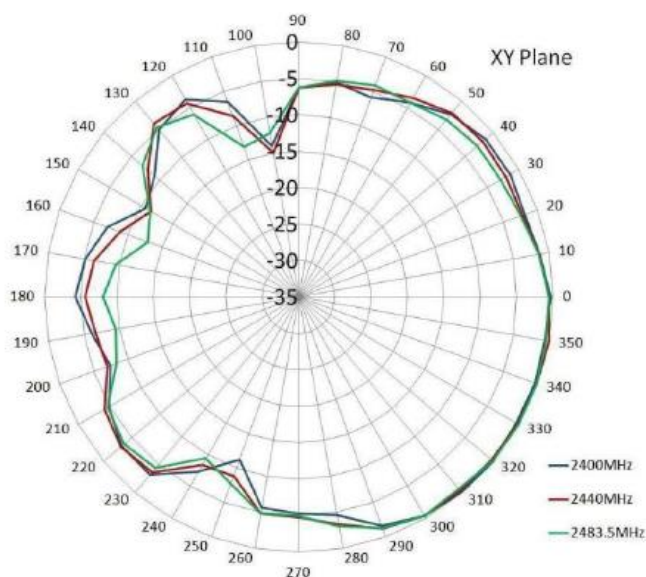
GPS ANTENNA



GSM ANTENNA



WIFI ANTENNA



■ ENVIRONMENTAL

PARAMETER	VALUE
RoHS	Compliant
REACH SVHC	Compliant
HALOGEN-FREE	Compliant



■ APPROVAL

RALTRON	
DRAWN BY:	AR, July 13, 2022
APPROVED BY:	CP, July 13, 2022
REVISION:	A, Initial Release

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