

RDM-MBF5-A-5048-1M-X-001



ELECTRICAL SPECIFICATION

GPS ANTENNA

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

LNA

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

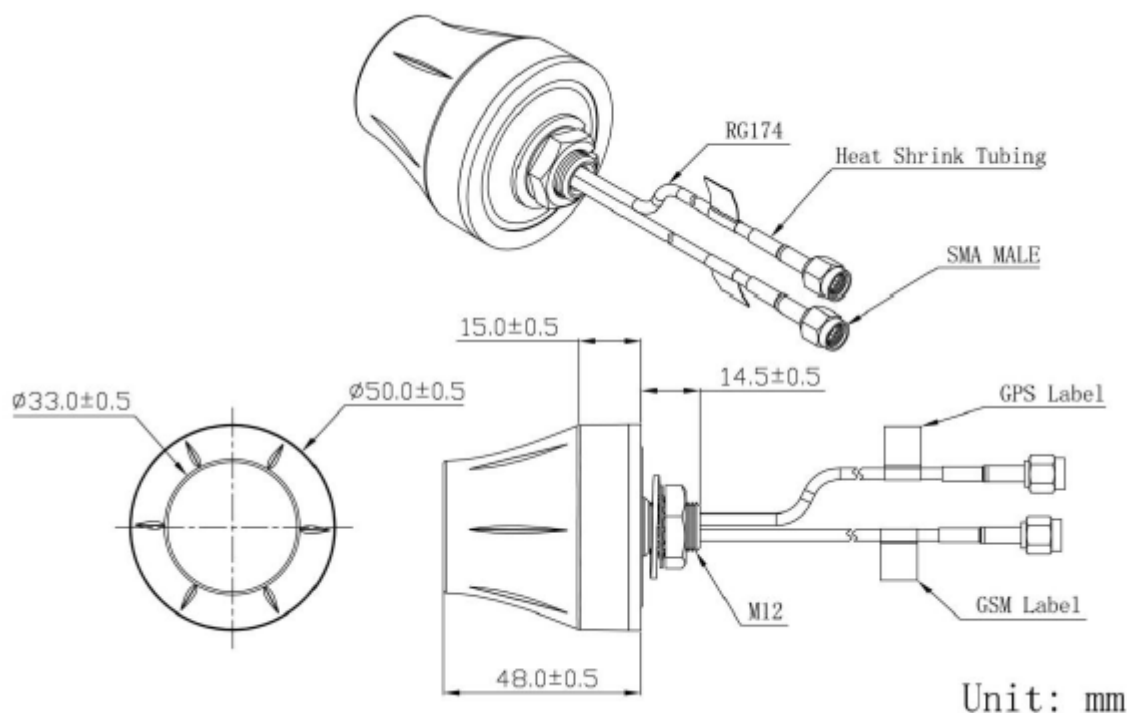
GSM ANTENNA

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

MECHANICAL SPECIFICATION

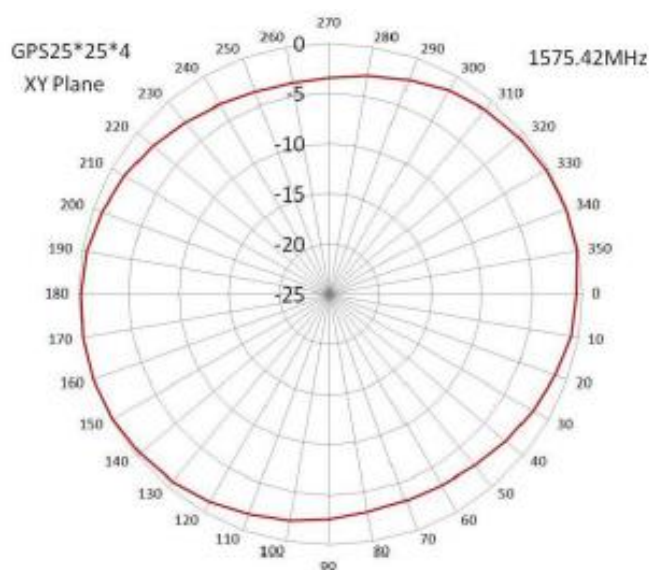
Parameters	Value	Unit
Connector	SMA Male	-
Cable	RG174	-
Radome Material	ABS	-
Mounting Method	Screw	-
Operating Temperature Range	-40 ~ +85	°C
Relative Humidity, max	95	%
Ingress Protection	@ Exclude Cable Outlet	
	IP67	-
Vibration	@ 1.5 mm amplitude 2hours	
	10 ~ 55	Hz
ROHS Compliant	YES	-

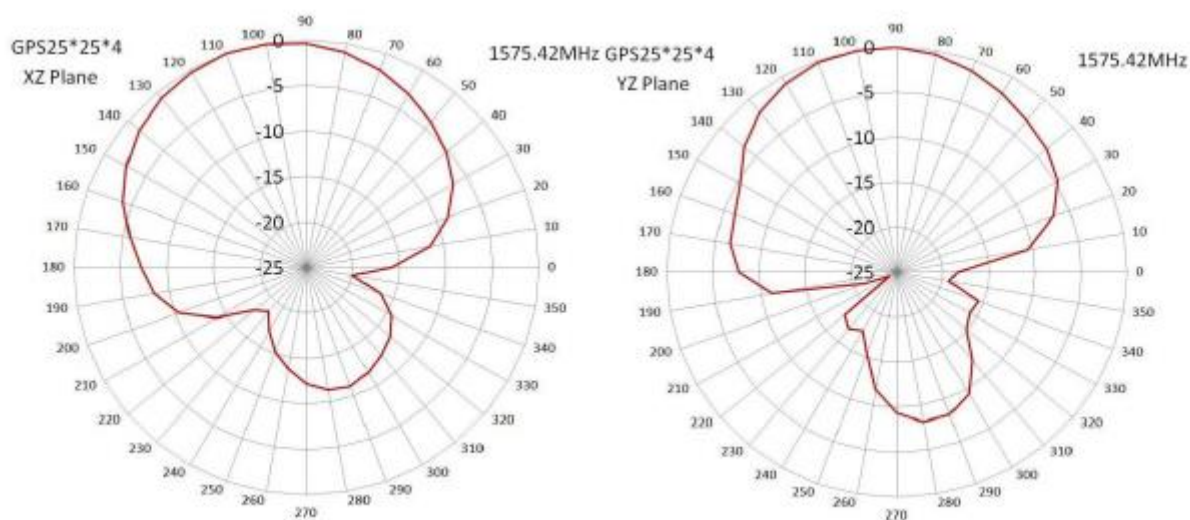
■ DIMENSIONS



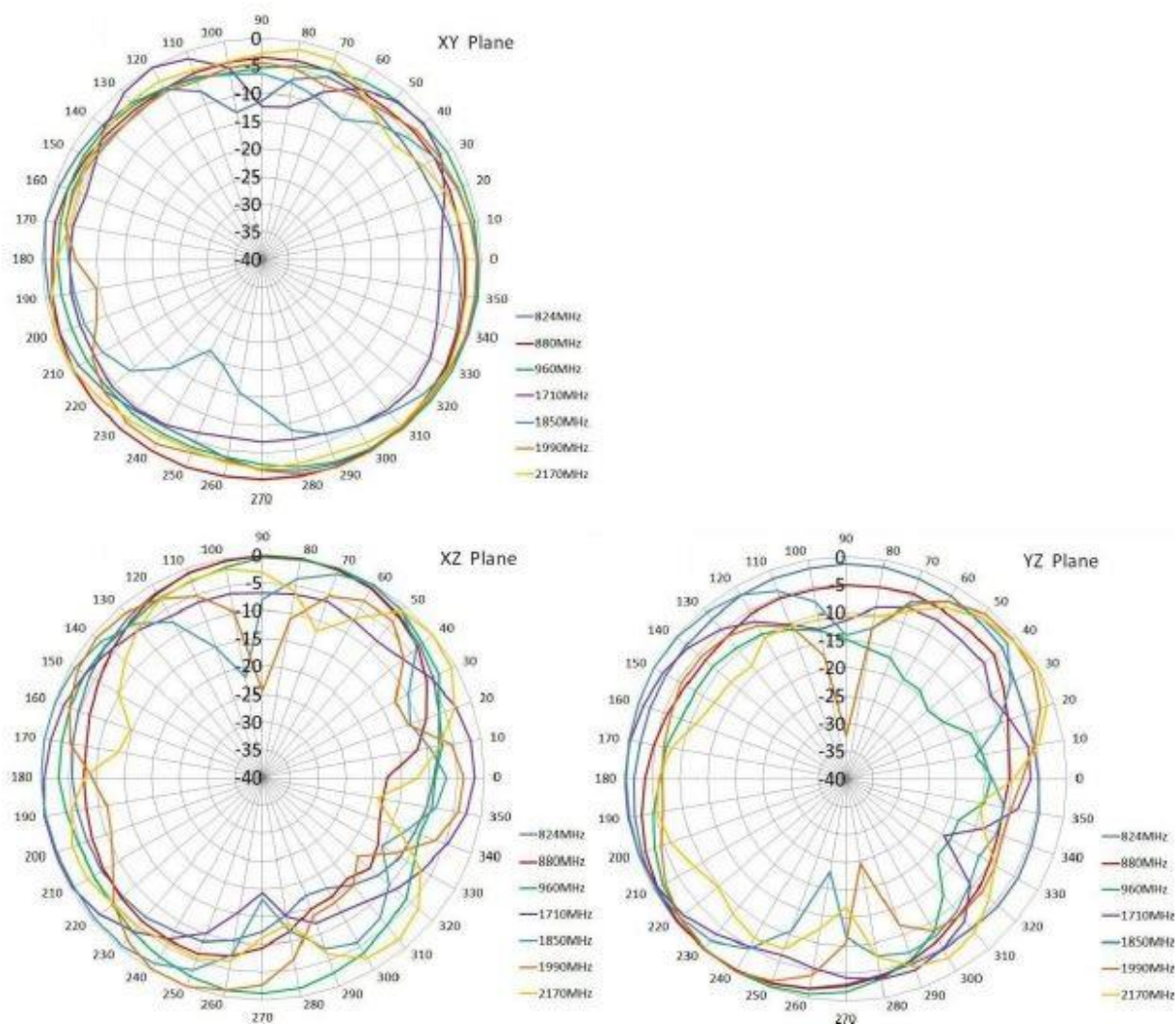
■ RADIATION PATTERN

GPS ANTENNA





GSM ANTENNA



■ ENVIRONMENTAL

PARAMETER	VALUE
RoHS	Compliant
REACH SVHC	Compliant
HALOGEN-FREE	Compliant



■ APPROVAL

RALTRON	
DRAWN BY:	AR, July 14, 2022
APPROVED BY:	CP, July 14, 2022
REVISION:	A, Initial Release

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