



MS-A2-2J1-A
Flat Square_2 in 1 Antenna
Wi-Fi 6 / GNSS

Electrical Specifications

Wi-Fi 6 Antenna Characteristics

Frequency Range, MHz	2400-2500	5150-5850
VSWR	2.0 Max.	
Peak Gain, dBi	2.5 Typ.	1.5 Typ.
Efficiency, %	61	55
Polarization	Linear	
Impedance	50Ω	

Wi-Fi 6 test cable length : 1m (CFD-200)

GNSS Antenna Characteristics

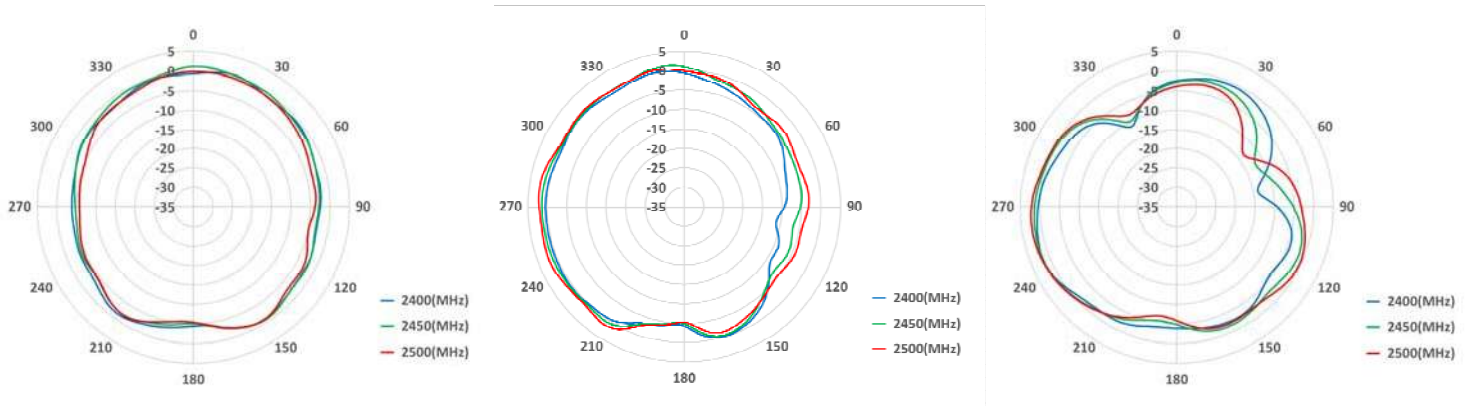
Center Frequency, MHz	1561±2	1575.42±3	1602±4
VSWR	3.0 Max.		
Peak Gain, dBi	3.5 Typ.	3.5 Typ.	3.5 Typ.
Efficiency, %	58	59	63
Polarization	Linear		
Impedance	50Ω		

GNSS test cable length : 10cm(RG-174)

GNSS LNA Properties

Frequency Range, MHz	1559-1608
Impedance	50Ω
Output Return Loss(S ₁₁), dB	10 Min.
Gain@ 3.3V, dB	28±3
Noise Figure@ 3.3V, dB	2.5 Typ.
DC Power Input, V	3.3
Power Consumption@ 3.3V, mA	9±2.5
ESD Withstand Voltage, KV	±8 contact; ±15 air

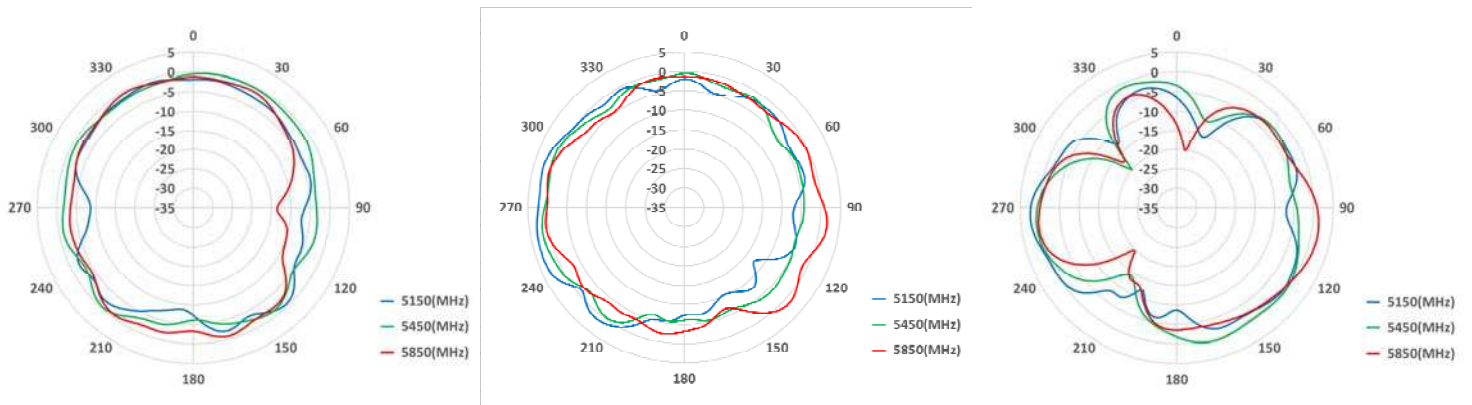
Wi-Fi 6 Antenna 2D Patterns



X-Z

Y-Z

X-Y

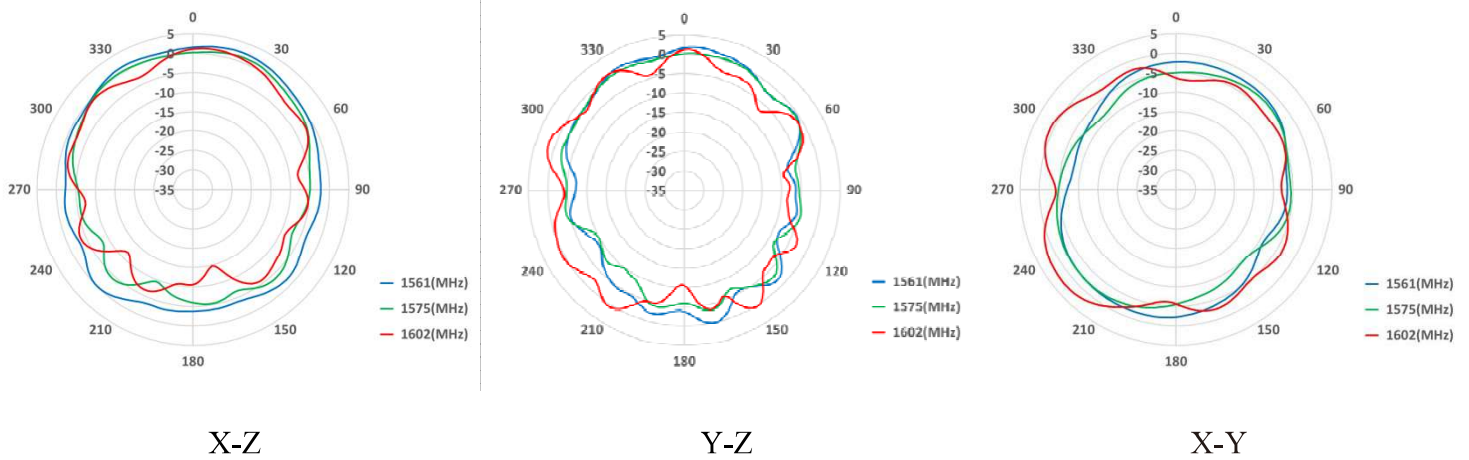


X-Z

Y-Z

X-Y

GNSS Antenna 2D Patterns



Mechanical Specifications

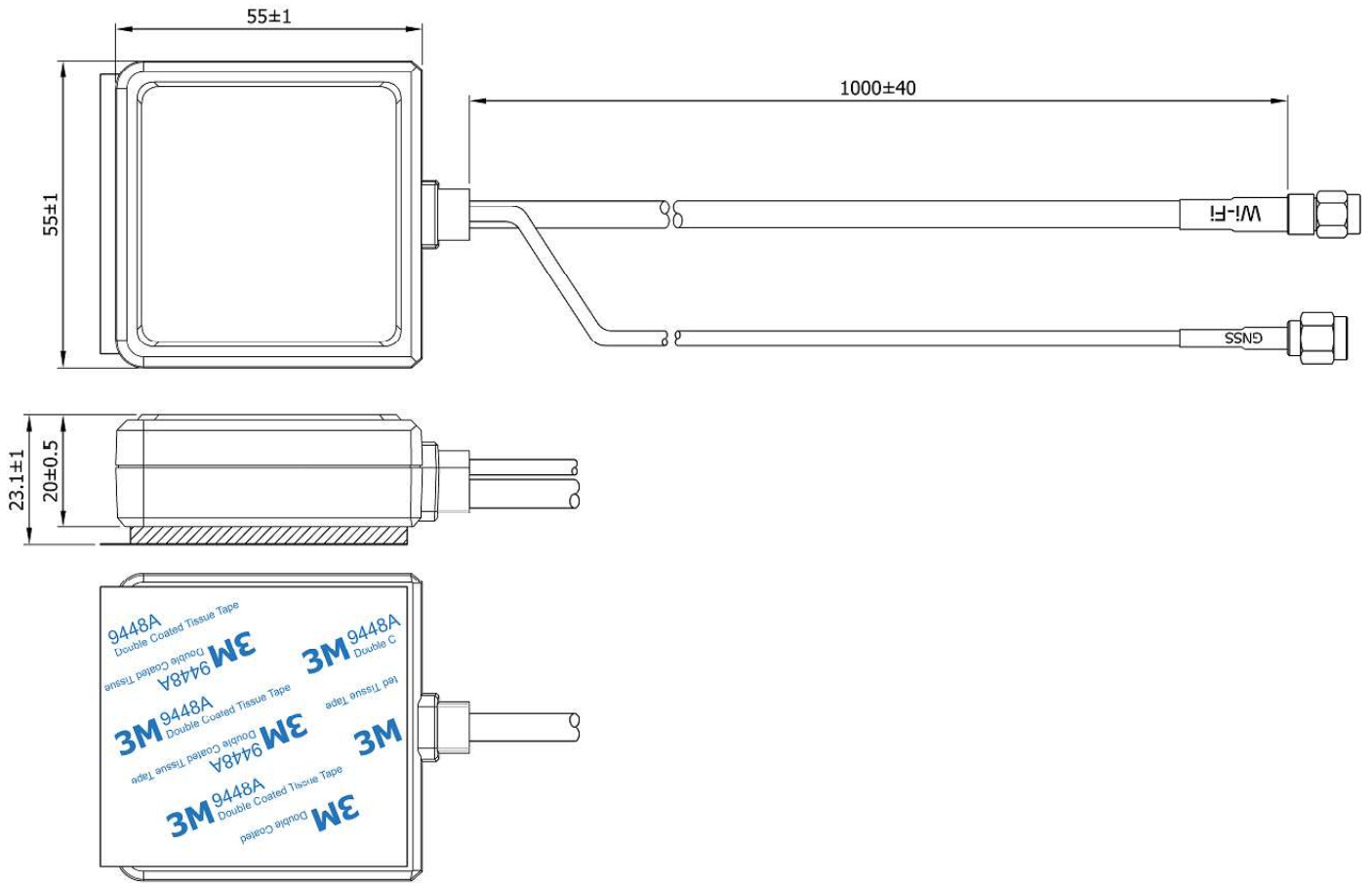
Environmental

Antenna Dimensions	(L)55×(W)55×(H)23.1 mm ³
Weight	103g
Mounting Function	Adhesive Mount
Operating Temperature	-40~ + 85°C
Housing Material & Color	PC & Black / Black
Cable	GNSS : RG-174 Wi-Fi 6 : CFD-200
Connector	SMA or your specification
Waterproof	IPX5

Reliability Test

Cold Temperature	-40°C,24Hr
High Temperature	+85°C,48Hr
Composite Temperature/Humidity Cycling	-40~+85°C,60%RH,1 Cycle(8Hr),24Hr
Thermal Shock	-40°C /30min → 5 min → +85°C /30min,48Hr

Mechanical Drawing



Unit : mm