

Flexible Printed Circuit Antenna AT102

Datasheet

V 1.0.0



Version Note

Version	Details	Contributor(s)	Date	Notes
1.0.0	First edit	Michelle	2026.06.11	

Part Number

Model	Hardware Code
AT102	-

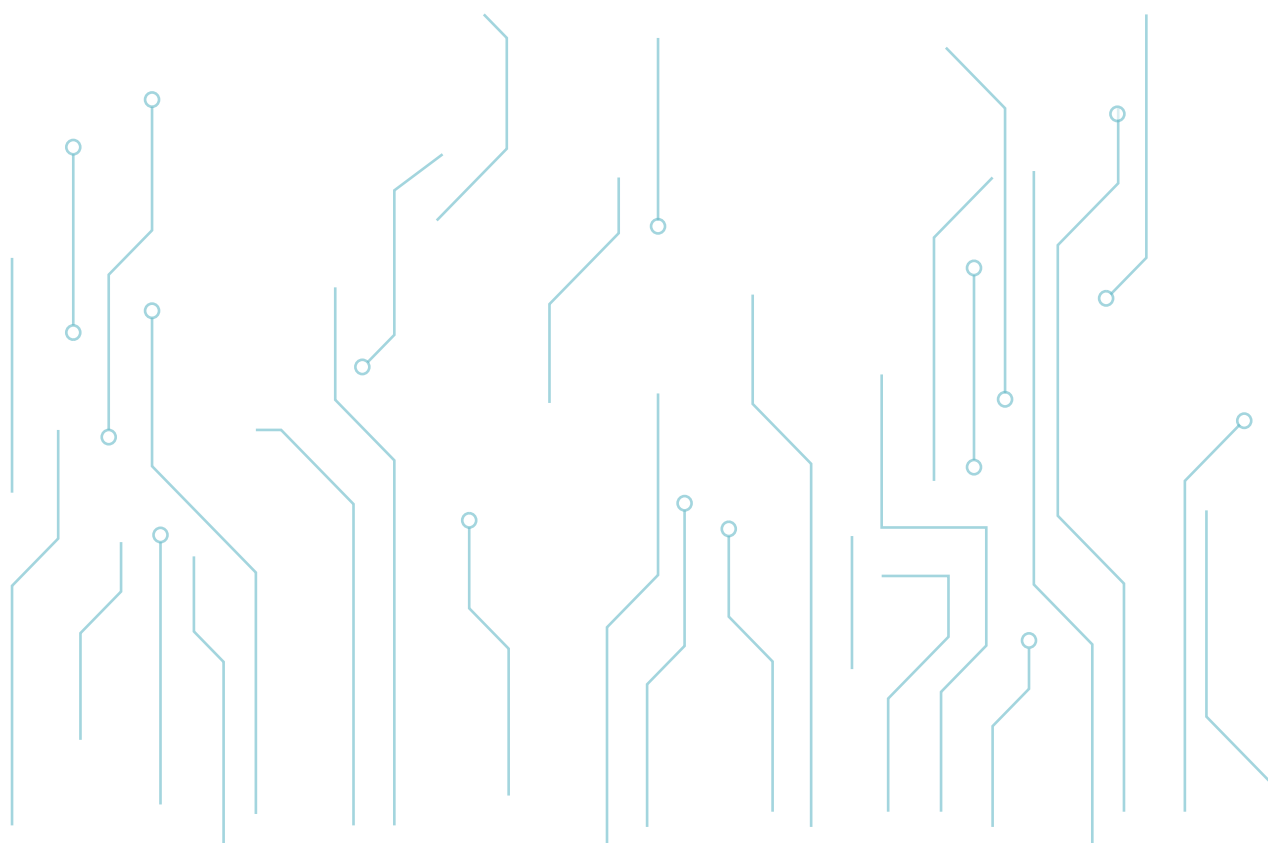
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https://en.minewsemi.com/file/AT102_Datasheet_EN.pdf





INDEX

1 Product Overview	04
2 Electrical Properties and Mechanical Properties	04
3 Physical Picture	04
4 Mechanical Drawing	05
5 Performance Data	05
5.1 VSWR	05
5.2 Return Loss	06
5.3 Gain	06
5.4 Efficiency	06
6 Radiation Patterns	07
6.1 2D Radiation Patterns	07
6.2 3D Radiation Patterns—2400MHz, 2450MHz	07
6.3 3D Radiation Pattern—2500MHz	08
7 Quality	08
8 Copyright Statement	08



1 PRODUCT OVERVIEW

The AT102 is a 2.4 GHz FPC antenna designed for wireless communication. Constructed from a flexible substrate, it can be bent and folded, making it lightweight and highly portable, making it ideal for use with modules during testing.

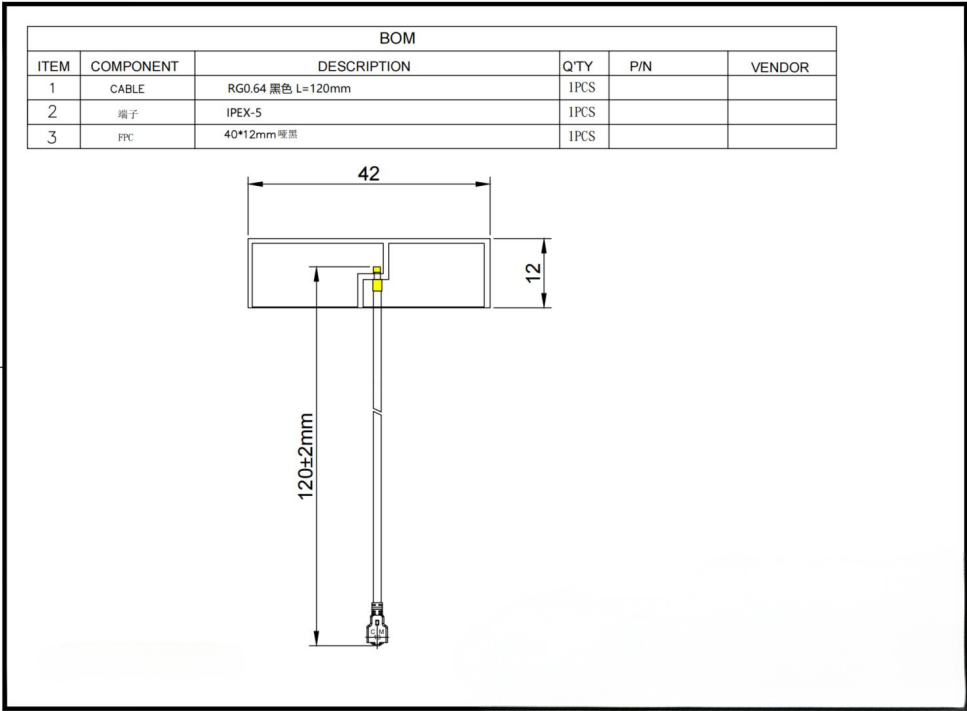
2 ELECTRICAL PROPERTIES AND MECHANICAL PROPERTIES

Electrical Specifications	
Frequency Range	2400-2500MHz
VSWR	≤2.0
GAIN	≤4.07 dBi
Polarization	Linear
Input Impedance	50 Ω
Power Capacity	50W
Mechanical Specifications	
Dimensions	42*12mm
Connector Type	I-PEX-5
Cable Type	RG 0.64
Cable Length	120mm
Mounting Method	Snap-on
Color	Black
Material	FPC
Working Temperature	-45°C~+85°C
ROHS Complaint	Complies with RoHS standards

3 PHYSICAL PICTURE

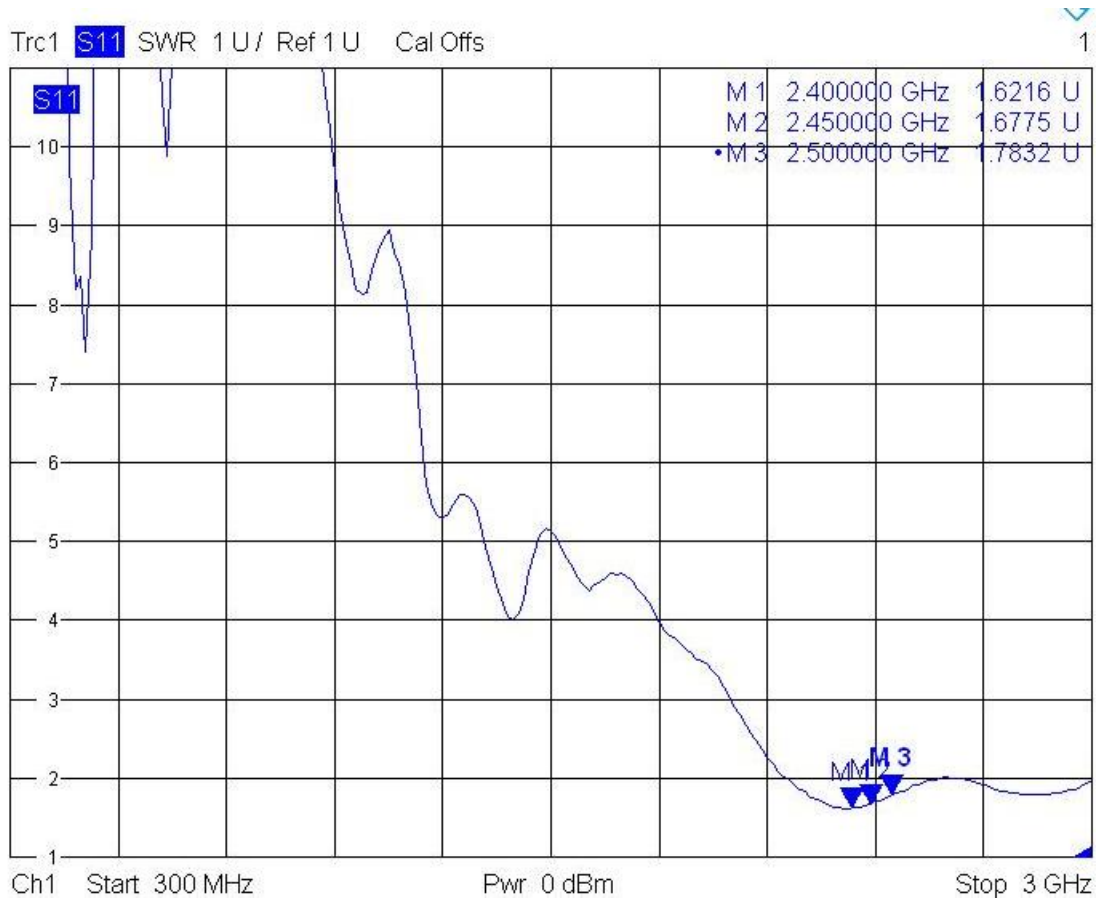


4 MECHANICAL DRAWING

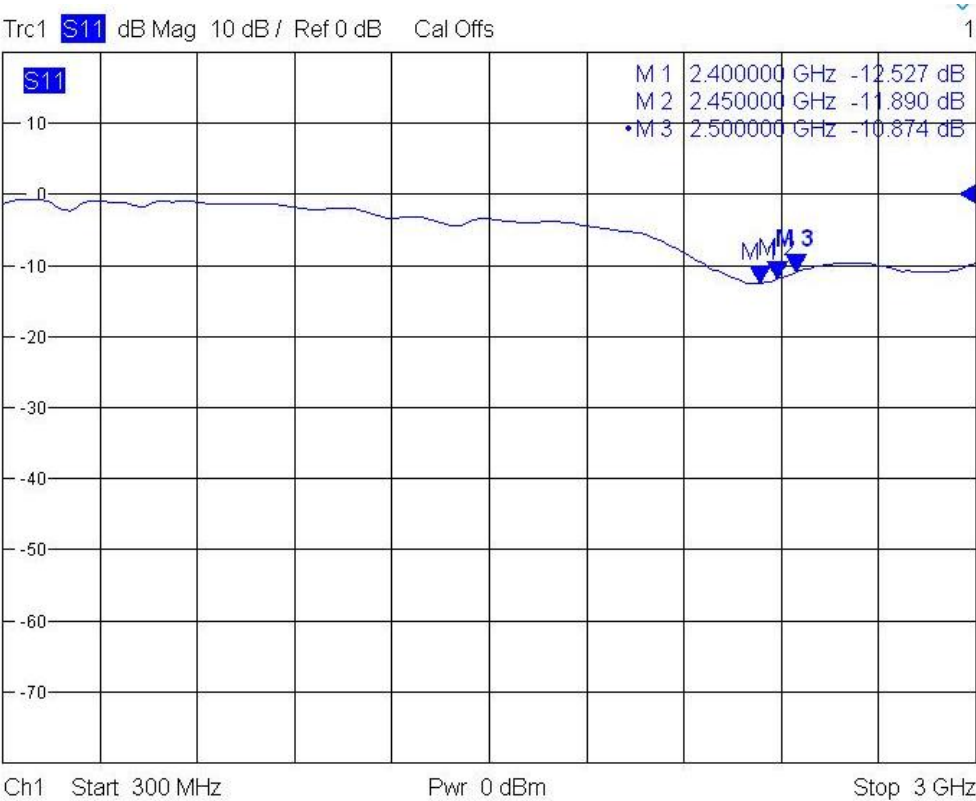


5 PERFORMANCE DATA

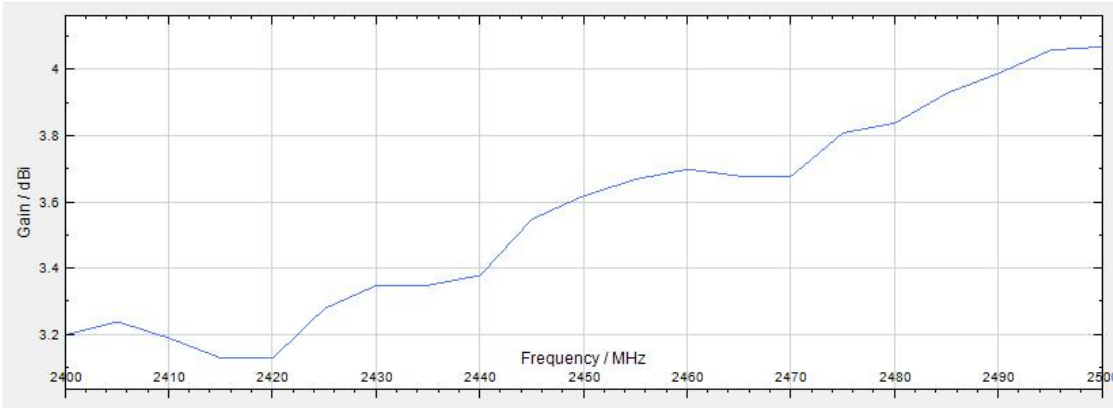
5.1 VSWR



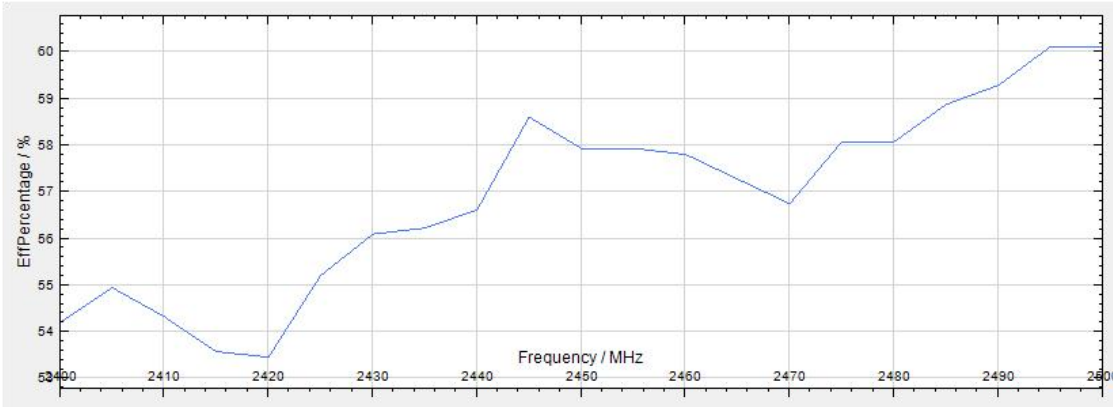
5.2 RETURN LOSS



5.3 GAIN



5.4 EFFICIENCY

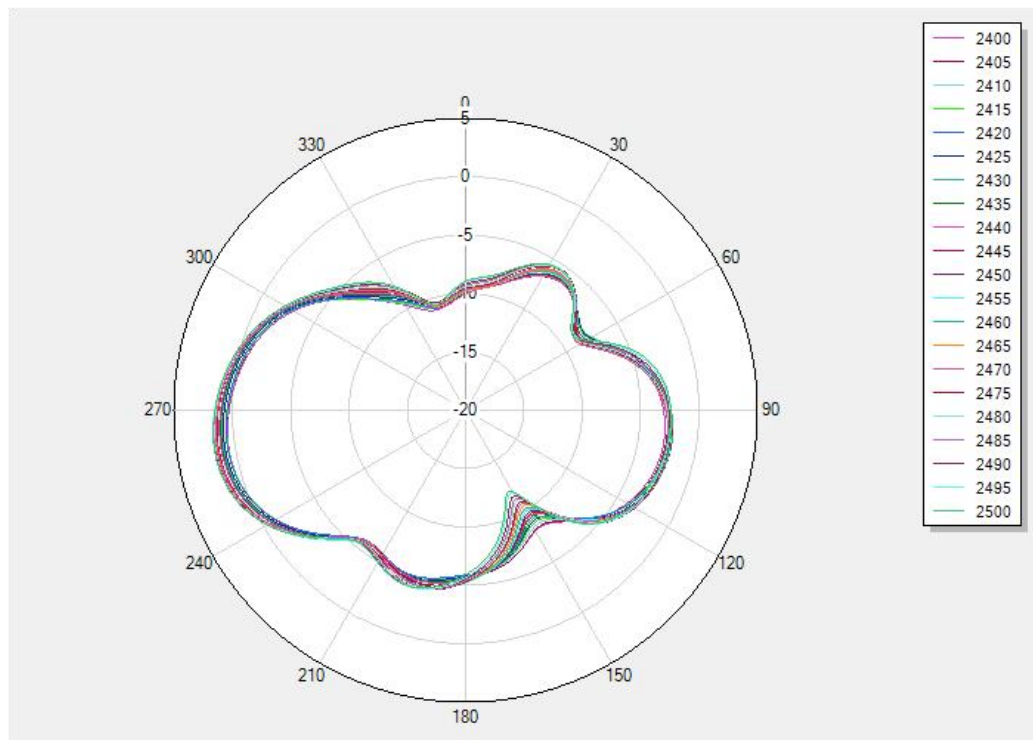




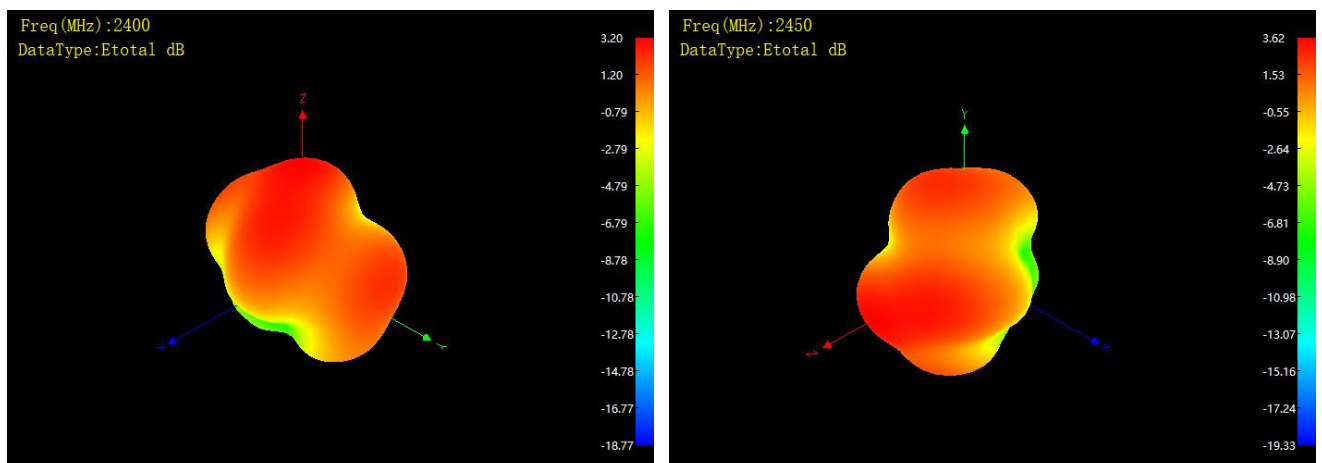
Frequency (MHz)	2400	2450	2500
Gain (dBi)	3.2	3.62	4.07
Efficiency (%)	54.2	57.94	60.12

6 RADIATION PATTERNS

6.1 2D RADIATION PATTERNS

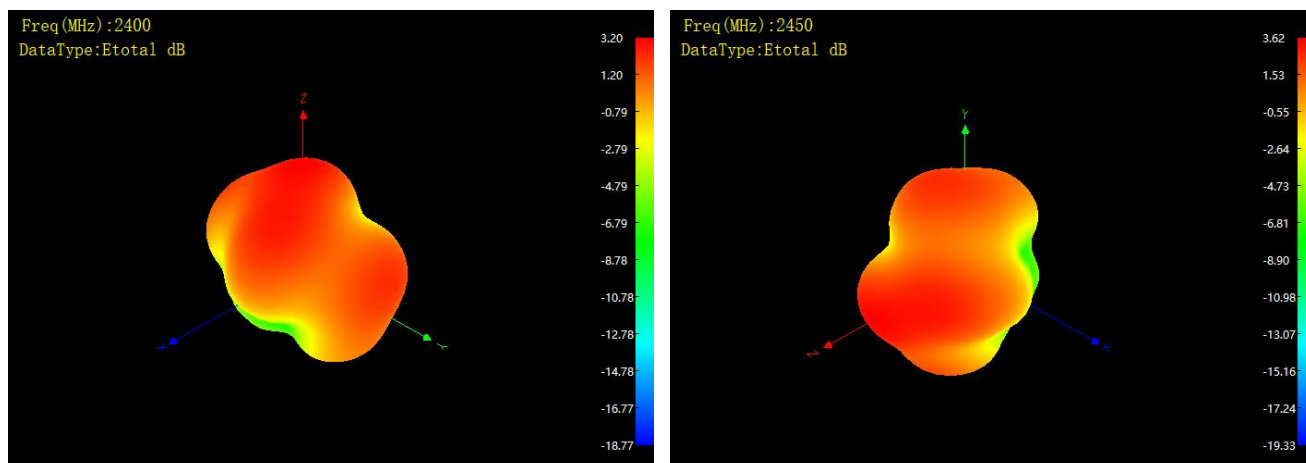


6.2 3D RADIATION PATTERNS—2400MHZ, 2450MHZ





6.3 3D RADIATION PATTERN—2500MHZ



7 QUALITY

Cognizant of our commitment to quality, we operate our own factory equipped with state-of-the-art production facilities and a meticulous quality management system. We hold certifications for ISO9001, ISO14001, ISO27001, OHSA18001, BSCI.

Every product undergoes stringent testing, including transmit power, sensitivity, power consumption, stability, and aging tests. Our fully automated module production line is now in full operation, boasting a production capacity in the millions, capable of meeting high-volume production demands.

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