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DATA SHEET

P/N: F243090-001

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Version Information

Version	Date	Author	Note
A0	June 4, 2026	Shirley	Initial Draft

1. Product Description

Model F243090-001 is a single band antenna which has features of easy integration, can be directly connected to the product. The connector can be customized according to customer's request.

2. Features

The model F243090-001 antenna is defined by following features:

- IEEE 802.11 b/g/n/ax/be standards
- 0.1dBi peak gain@2.4GHz, 0.5dBi peak gain@2.44GHz, -1.1dBi peak gain@2.49GHz
- Quick Integration

3. Overall Performance

CHARACTERISTICS	SPEC
Standard	IEEE 802.11 b/g/n/ax/be
Frequency Range	2.4-2.49GHz
Peak Gain	0.1dBi@2.4GHz, 0.5dBi@2.44GHz, -1.1dBi@2.49GHz
VSWR	< 2
Efficiency	29.5%@2.4GHz, 29.6%@2.44GHz, 29.5%@2.49GHz
Power Handling	30 dBm
Feed Impedance	50 ohms
Antenna Dimensions	32*10*0.2 mm
Interface	U.FL compatible connector
Operating Temperature	-30 ° C to +75° C
Humidity Range	5% to 95% non-condensing
RF Cable	RF1.37

4. Product Characteristics

Return Loss & passive data of F243090-001 were measured with the antenna mounted in customer's equipment.

4.1 Return Loss

► Tr1 S11 Log Mag 10.00dB/ Ref 0.000dB [F1]

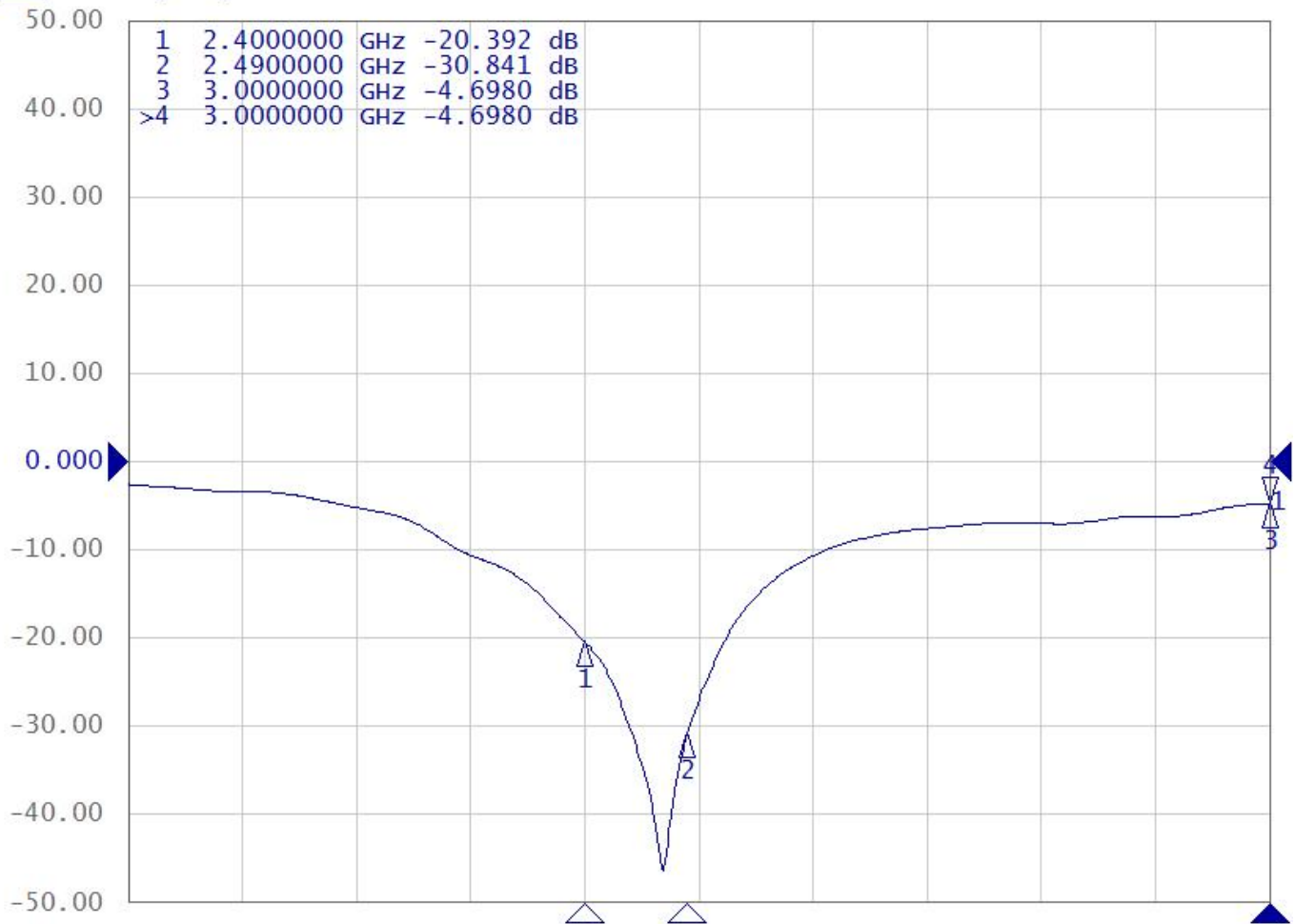


Figure 1: Model F243090-001 Return Loss

4.2 Radiation Pattern

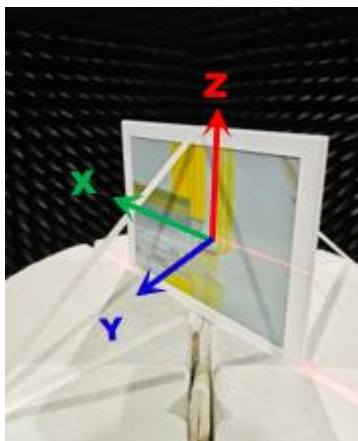


Figure 2: Model F243090-001 Measurement Axes

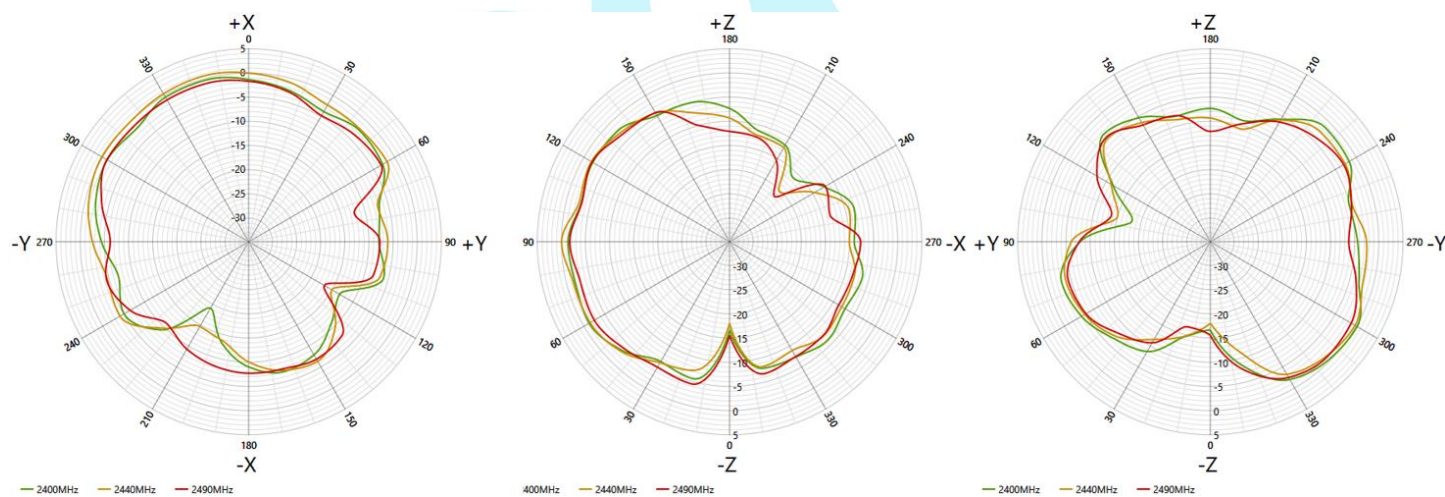


Figure 3: Model F243090-001 Radiation Patterns

5. Product Drawing

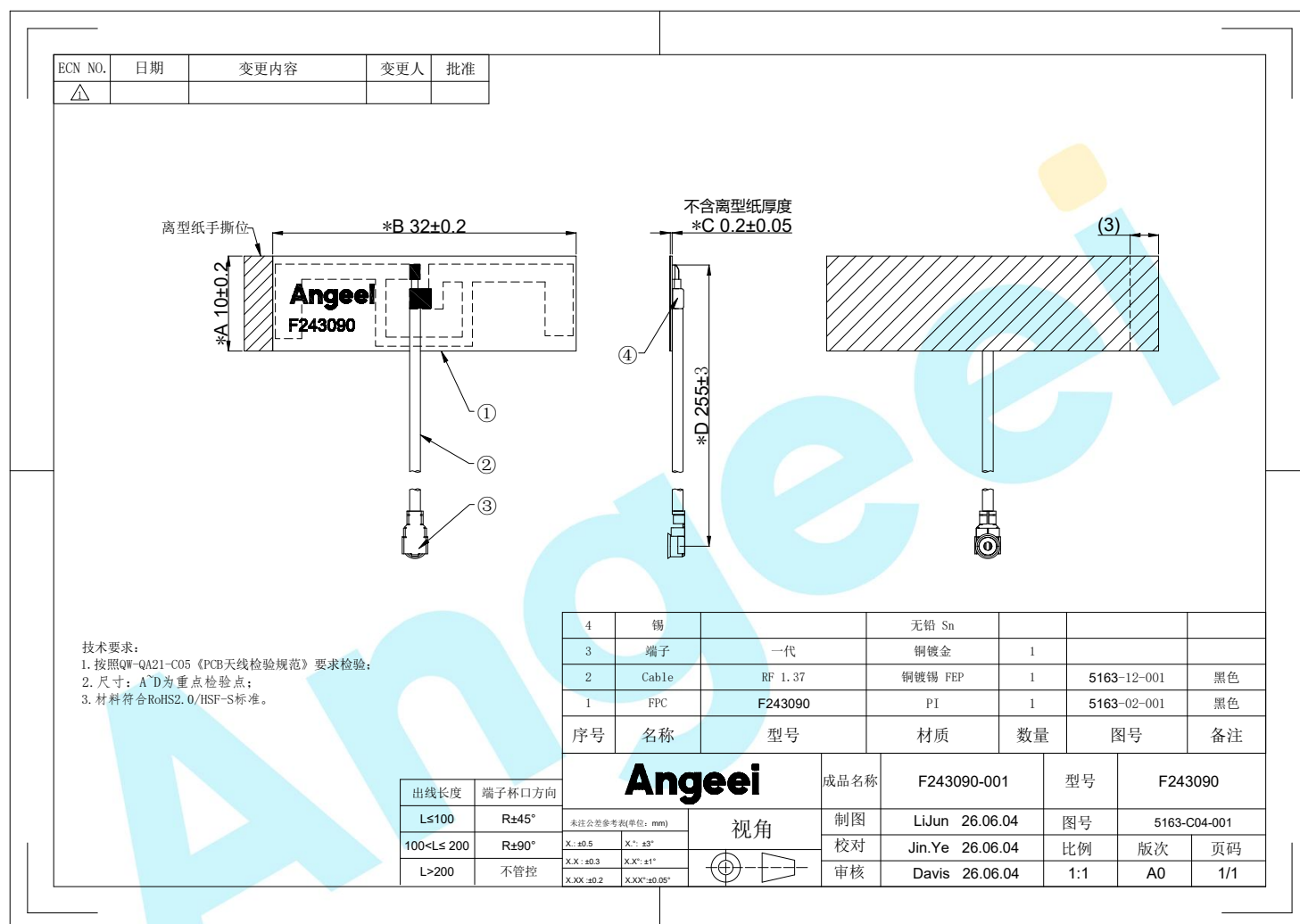


Figure 4: Model F243090-001 Dimensions

6. RoHS

Model F243090-001 is RoHS compliant.

Note:

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