

Angeei

DATA SHEET

P/N: PD243094-70B13U1S

Innovation

Expert

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Version Information

Version	Date	Author	Note
A0	December 4, 2025	Shirley	Initial Draft
A1	December 26, 2025	Shirley	Update Drawing

1. Product Description

Model PD243094-70B13U1S product is designed with patented technology. PD243094-70B13U1S is a dual 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 PD243094-70B13U1S Antenna is defined by following features:

- IEEE 802.11 a/b/g/n/ac/ax/be standards
- 1.4dBi peak gain@2.4GHz, 0.7dBi peak gain@2.45GHz, 0.4dBi peak gain@2.5GHz, 1.5dBi peak gain@5.15GHz, 2.2dBi peak gain@5.5GHz, 2.4dBi peak gain@5.85GHz
- High Efficiency
- Quick Integration

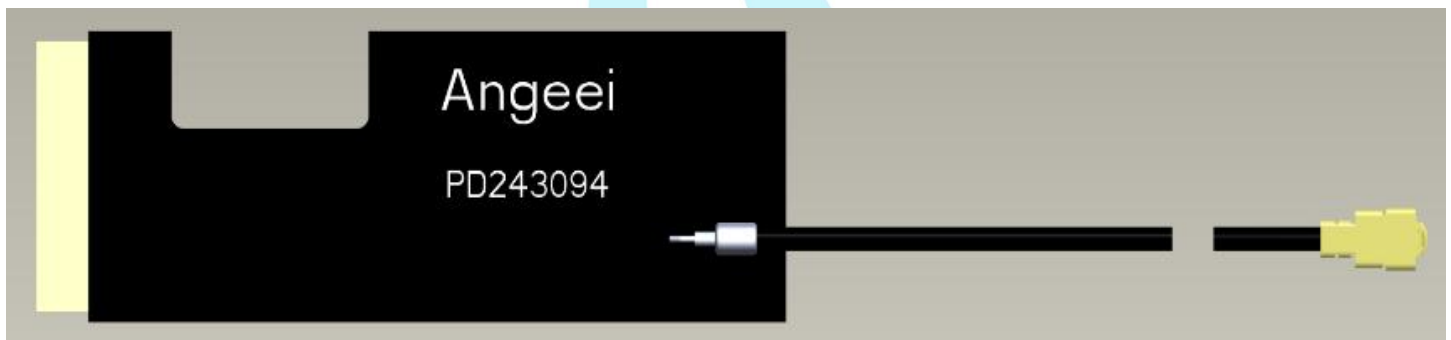


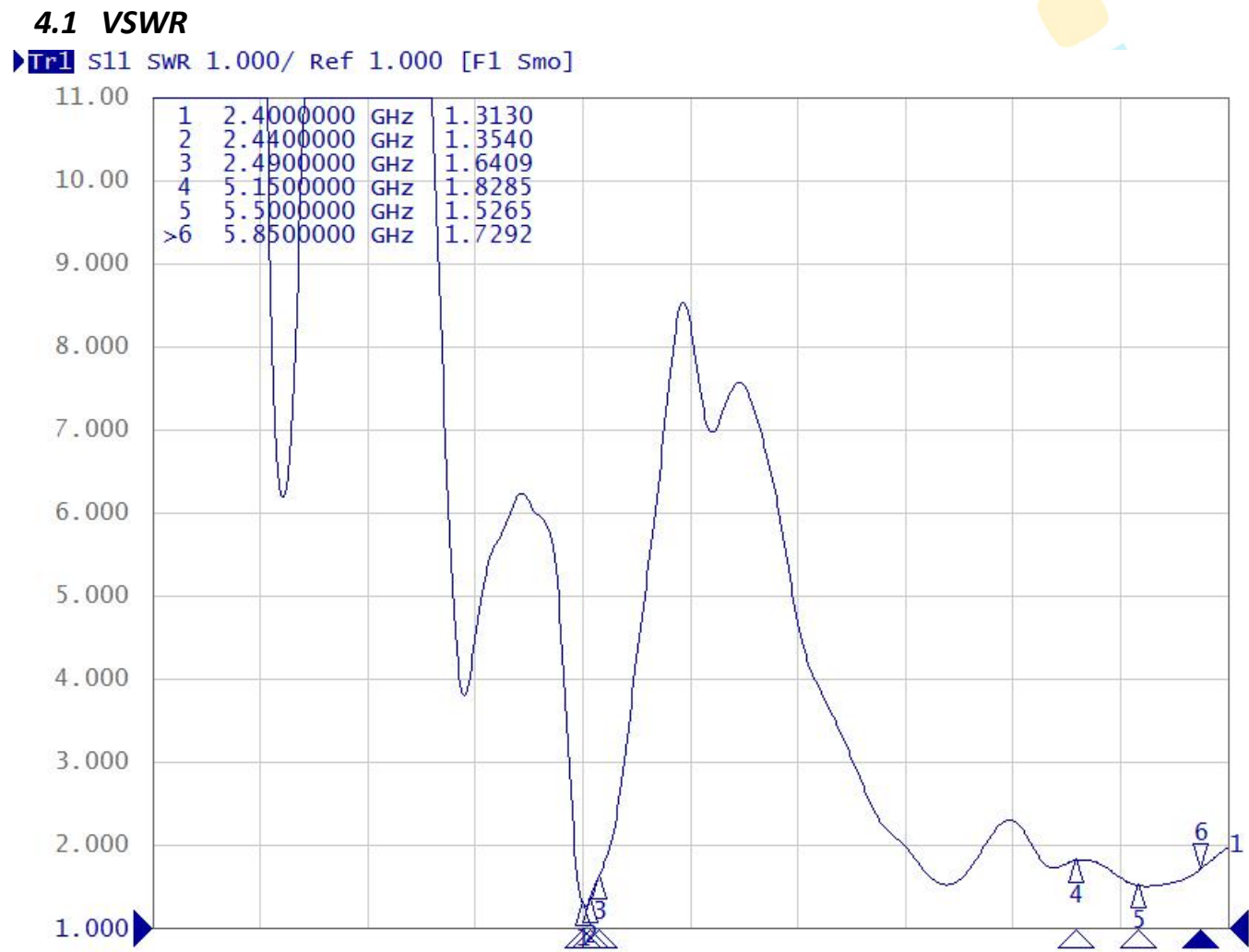
Figure 1: Model PD243094-70B13U1S Antenna

3. Overall Performance

CHARACTERISTICS	SPEC
Standard	IEEE 802.11 a/b/g/n/ac/ax/be
Frequency Range	2.4-2.49GHz & 5.15-5.85GHz
Peak Gain	1.4dBi@2.4GHz, 0.7dBi@2.45GHz, 0.4dBi@2.5GHz, 1.5dBi@5.15GHz, 2.2dBi@5.5GHz, 2.4dBi@5.85GHz
VSWR	< 2
Efficiency	41.5%@2.4GHz, 45.8%@2.45GHz, 46.4%@2.5GHz, 53.8%@5.15GHz, 49.2%@5.5GHz, 45.6%@5.85GHz
Power Handling	30 dBm
Feed Impedance	50 ohms
Antenna Dimensions	33.6*14*0.6 mm
Interface	U.FL compatible connector
Operating Temperature	-30 ° C to +75 ° C
Humidity Range	5% to 95% non-condensing
RF Cable	RF1.13

4. Product Characteristics

VSWR and passive data of the PD243094-70B13U1S were measured with the antenna mounted in customer’s equipment.



4.2 Radiation Pattern

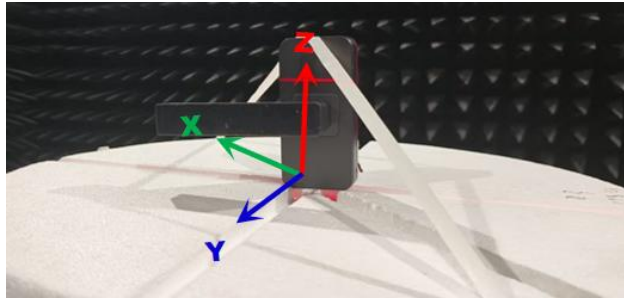


Figure 3: Model PD243094-70B13U1S Measurement Axes

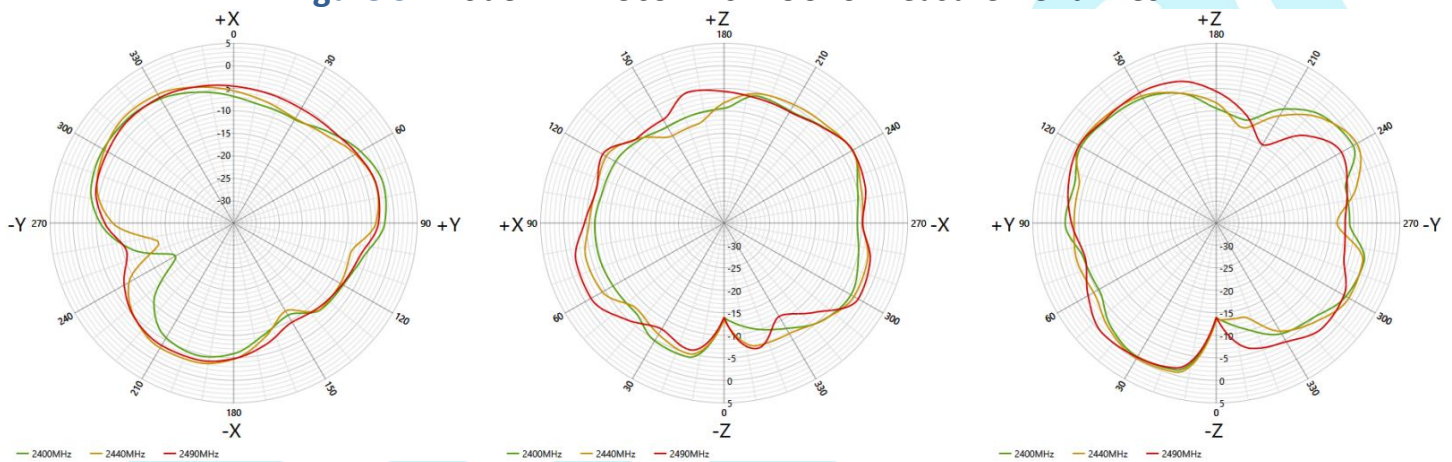


Figure 4: Model PD243094-70B13U1S Radiation Patterns in 2.4-2.49GHz

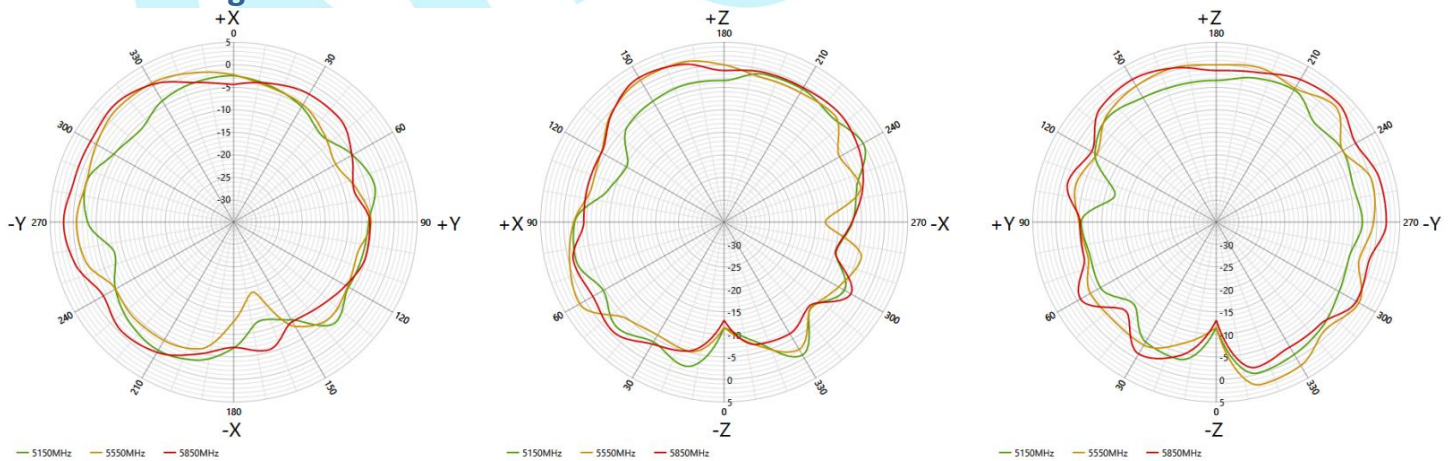


Figure 5: Model PD243094-70B13U1S Radiation Patterns in 5.15-5.85GHz

5. Product Drawing

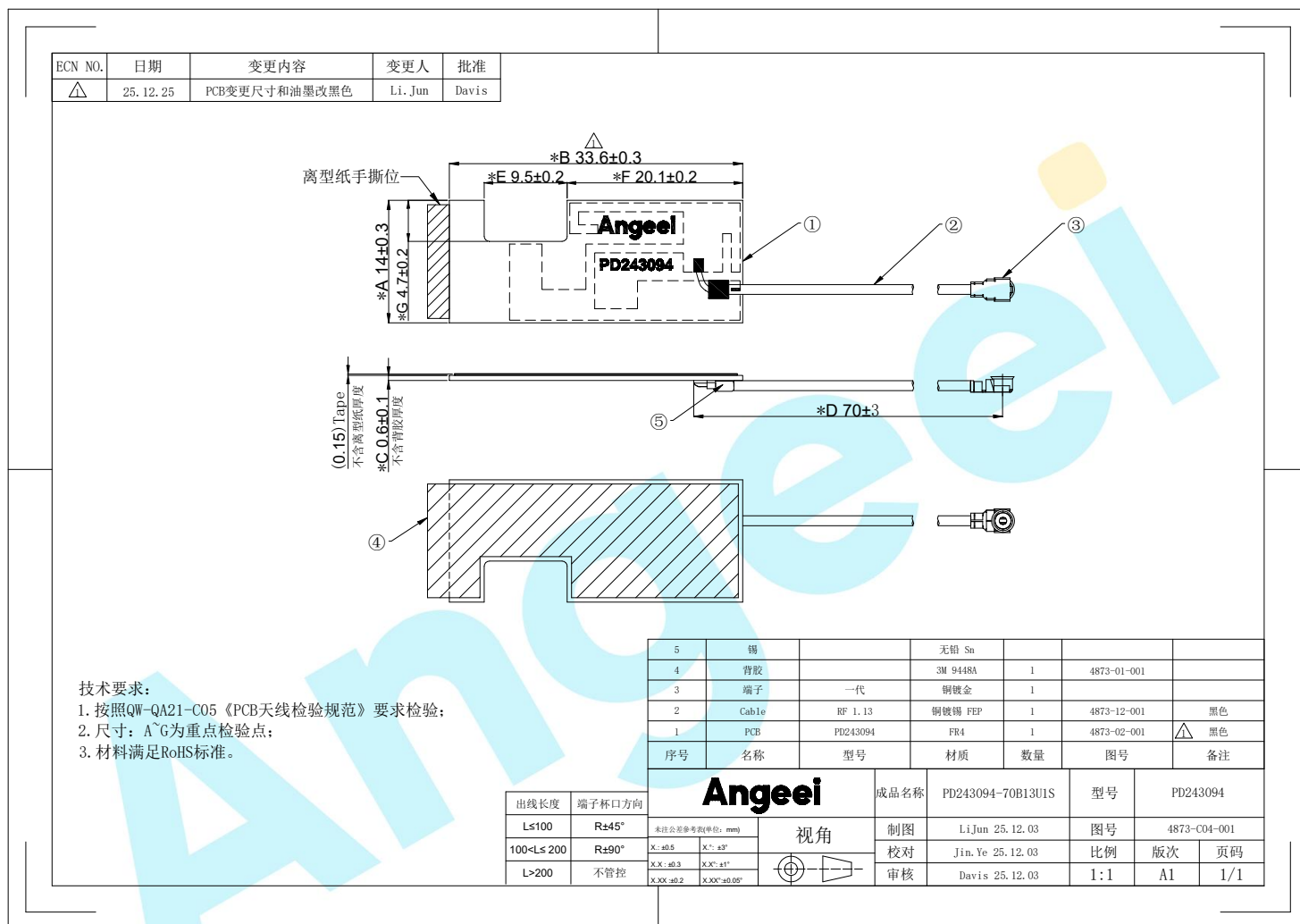


Figure 6: Model PD243094-70B13U1S Dimensions

6. RoHS

Model PD243094-70B13U1S antenna is RoHS compliant.

Note:

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