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DATA SHEET

P/N: DPD2450APB

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Version Information

Version	Date	Author	Note
1.0	Nov 28, 2019	Ryan	Initial Draft
1.1	June 18, 2020	Ryan	Update VSWR

1. Product Description

Model DPD2450APB 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 DPD2450APB antenna is defined by following features:

- IEEE 802.11 a/b/g/n/ac/ax standards
- 2.8dBi peak gain@2.44GHz & 5.5dBi peak gain@5.55GHz
- High Efficiency
- Quick Integration



Figure 1: Model DPD2450APB Antenna

3. Overall Performance

CHARACTERISTICS	SPEC
Standard	IEEE 802.11 a/b/g/n/ac/ax standards
Frequency Range	2.4-2.49GHz 5.15-5.85GHz
Peak Gain	2.8 dBi@2.44GHz 5.5dBi@5.55GHz
VSWR	<2 in 2.4-2.49Ghz band <2.5 in 5.15-5.85GHz band
Power Handling	30 dBm
Feed Impedance	50 ohms
Antenna Dimensions	172.5*18.6*Φ12.9mm
Interface	RP-SMA PLUG
Operating Temperature	-30 ° C to +75° C
Humidity Range	5% to 95% non-condensing

4. Product Characteristics

Measuring the VSWR & radiation pattern of DPD2450APB in a non-interference environment.

4.1 VSWR

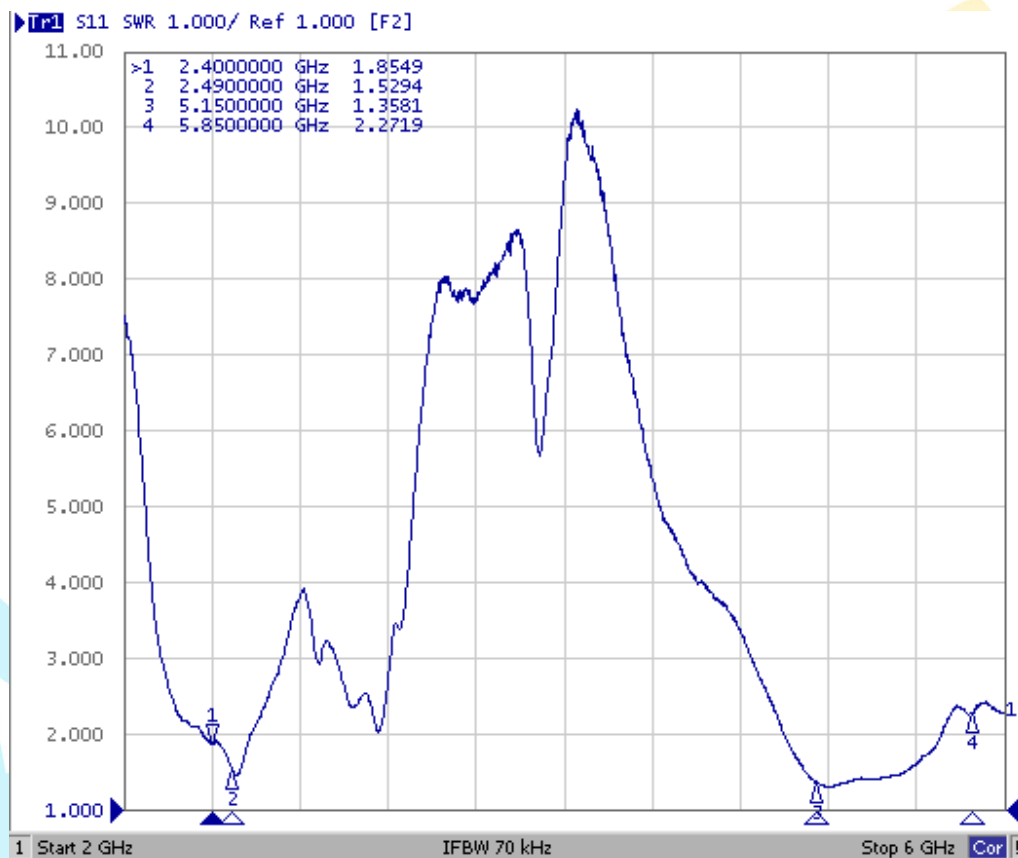


Figure 2: Model DPD2450APB VSWR

4.2 Radiation Pattern

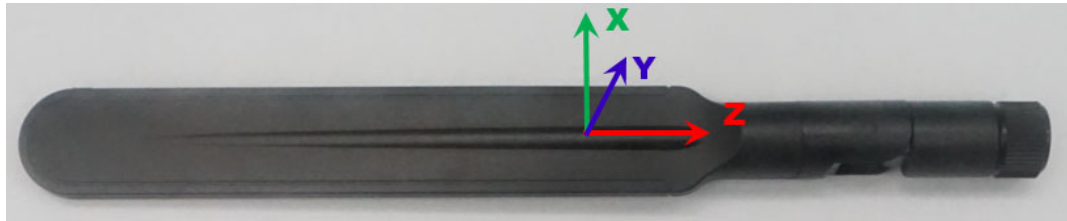


Figure 3: Model DPD2450APB Measurement Axes

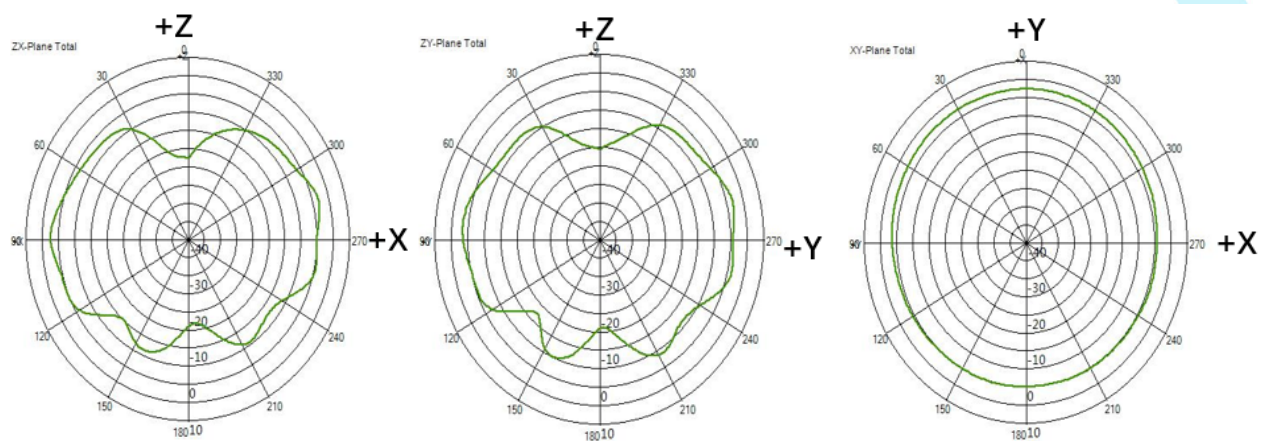


Figure 4: Model DPD2450APB Radiation Patterns at 2.44GHz

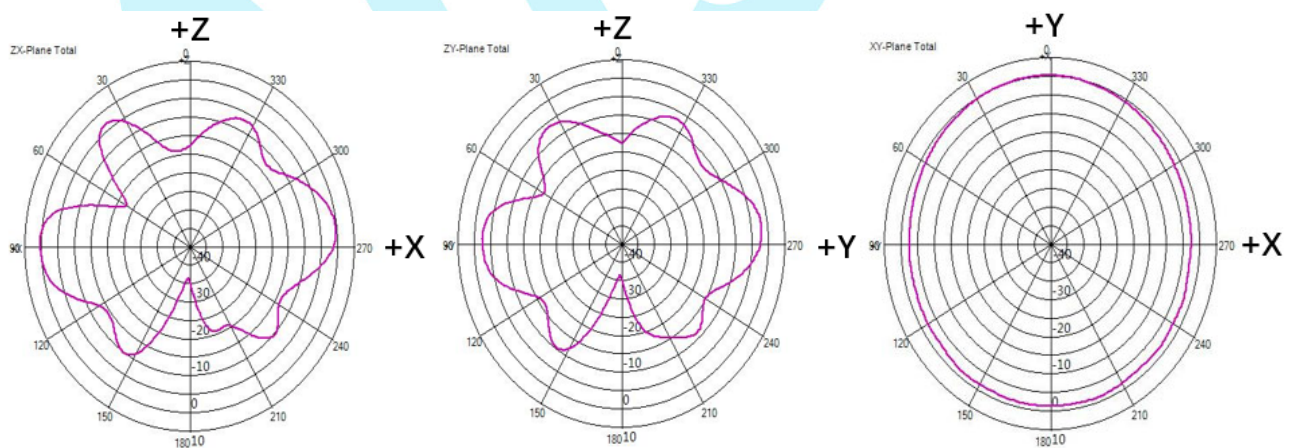


Figure 5: Model DPD2450APB Radiation Patterns at 5.55GHz

5. Product Drawing

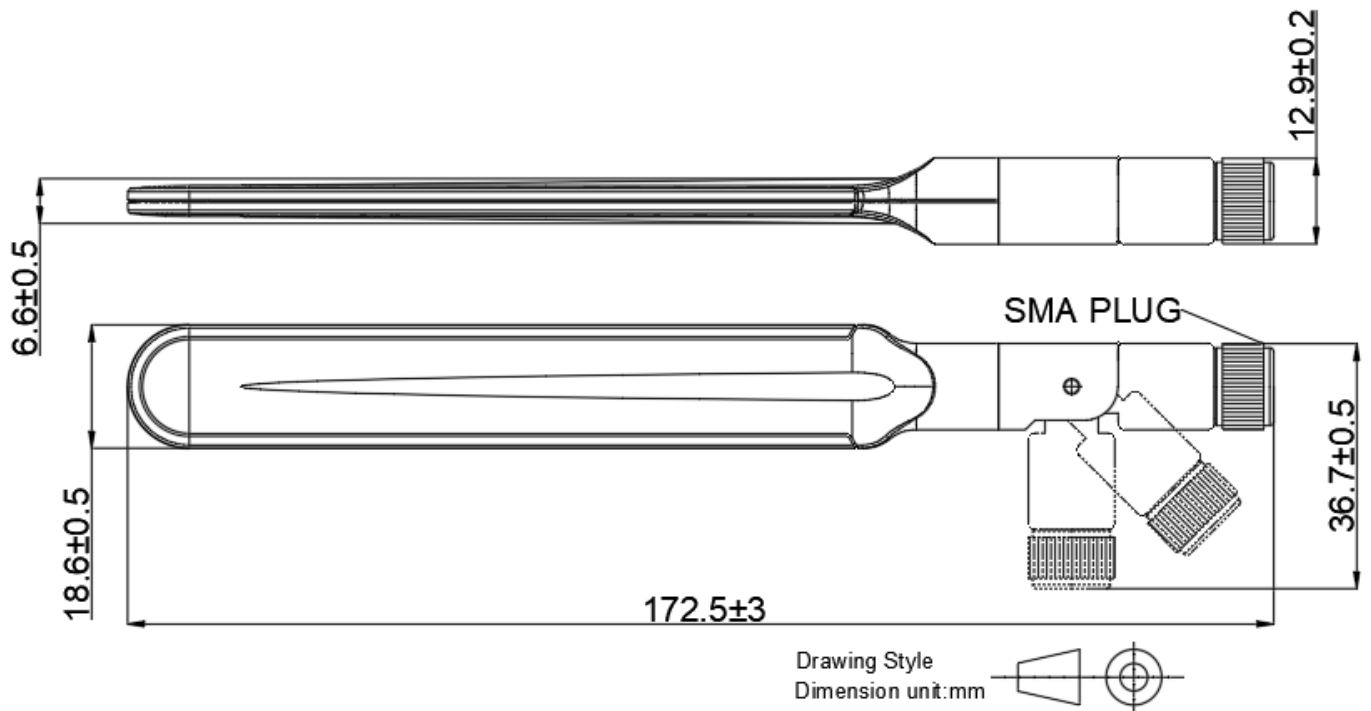


Figure 6: Model DPD2450APB Dimensions

6. ROHS

Model DPD2450APB antenna is RoHS compliant.

Note:

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