



ANTENNA DATASHEET

AOT PN: OET245172RPSM-W

REVISION HISTORY

REV.	Description	Date
1.0	First release	Oct.07/2024
2.0	Modified the package spec.	May28/2025

Want to see the latest information? Please contact us via sales@aot-corp.com

└ AOT Wireless Technology Co., Limited ┘



OET245172RPSM-W Antenna

Based on AOT's patented technology, the Model OET245172RPSM-W Antenna features provides a high performance, external antenna solution. It was designed for supporting 2400MHz-2490MHz/5150MHz-5850MHz/5925MHz-7125MHz bands applications.

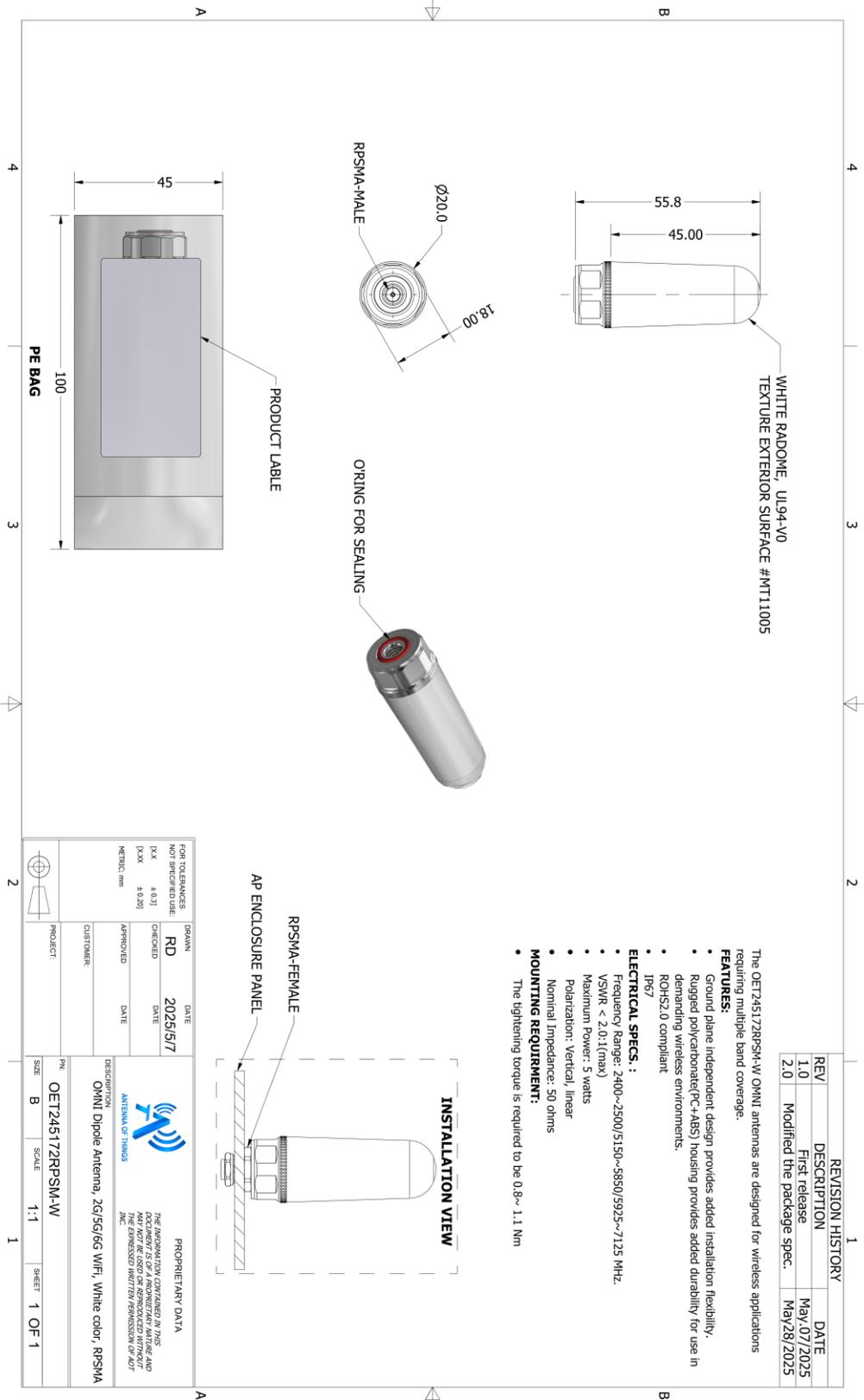
Features Overview

- Covering 2400MHz-2490MHz/5150MHz-5850MHz/5925MHz-7125MHz frequency
- 4.0dBi@2.4GHz band; 2.3dBi@5GHz band; 2.6dBi@6GHz band
- Outstanding performance in a very low profile housing
- White UL 94-V0 plastic housing, UV resistant
- IP67
- Omnidirectional antenna for indoor or outdoor operation





Assembly Drawing





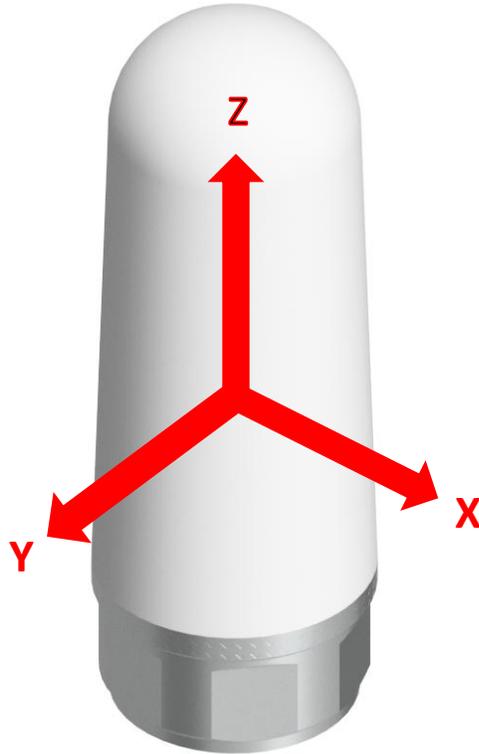
Specifications and Interface

Wireless Standard	IEEE 802.11.a/b/g/n/ac/ax/WIFI6E/WIFI7
Frequency Bands	2400MHz-2490MHz/5150MHz-5850MHz/5925MHz-7125MHz
Peak Realized Gain	4.0dBi@2.4GHz band;2.3dBi@5GHz band;2.6dBi@6GHz band
Realized Efficiency	>65%@All Band
VSWR	<2@All Band
Polarization	Linear Polarization
Radiation Pattern	Omni-directional
Feed Impedance	50Ω
Power Handling	30dBm
Antenna Structure	External Antenna
Feeding Description	RP SMA Male
Antenna Dimensions	55.8 x Φ20 mm
Weight	37.7g
Temperature Range	Operating temperature: -40° C to +75° C (-40° F to +167° F) Storage temperature: -40° C to +85° C (-40° F to +185° F)

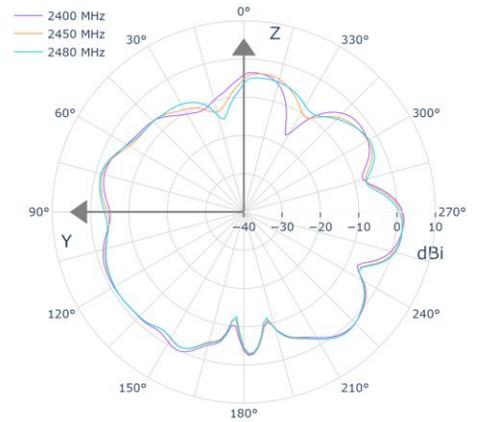
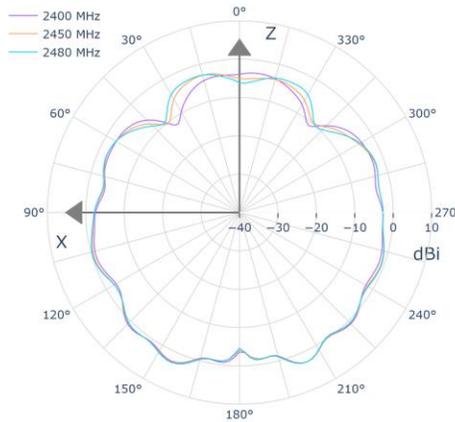
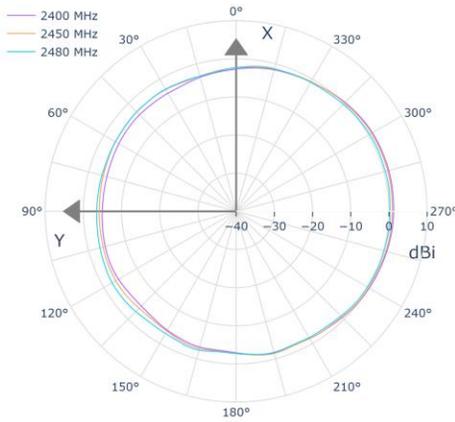


Radiation Patterns

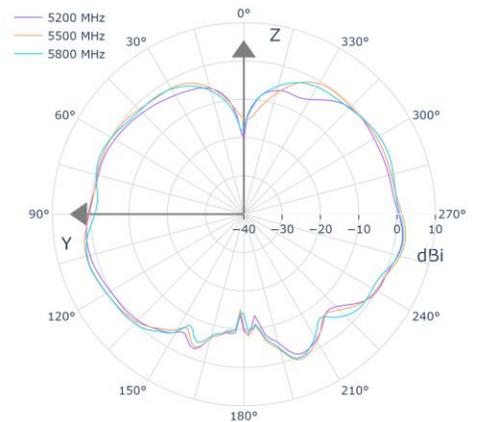
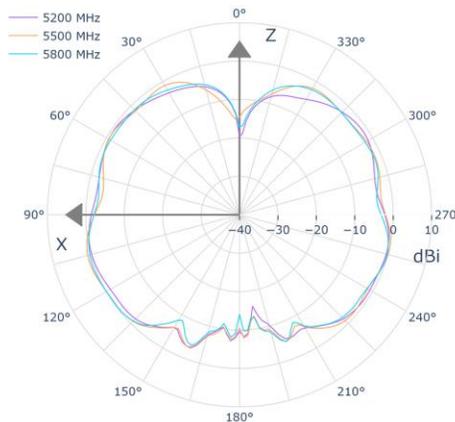
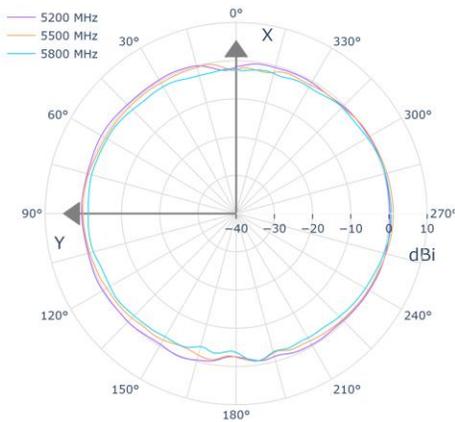
Radiation patterns were taken with the antenna in testing Chamber



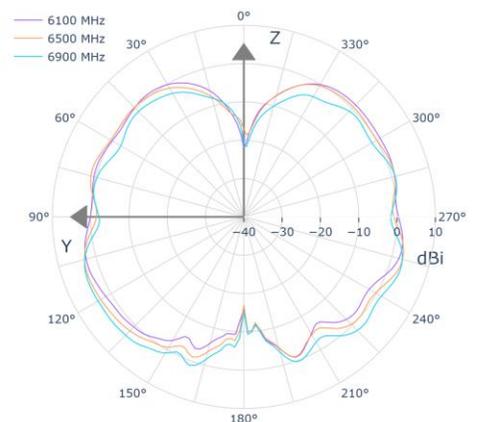
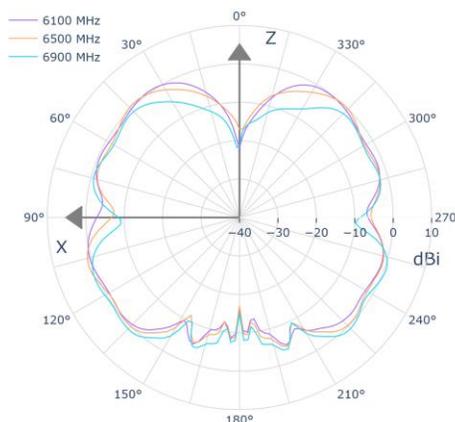
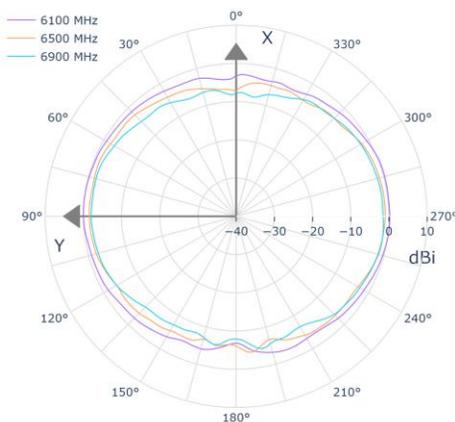
Antenna integrated in housing for radiation pattern



Model OET245172RPSM-W Antenna Radiation Patterns at 2G



Model OET245172RPSM-W Antenna Radiation Patterns at 5G



Model OET245172RPSM-W Antenna Radiation Patterns at 6G