

BT/BLE/Internal Antenna LDS Antenna

W3990L– 2400-2500MHz



YAGEO GROUP

Features & Applications:

- BT/BLE Antenna
- LDS pattern
- Antenna dimensions: 13.13 x 11.28 x 10.16 mm
- IoT, M2M, industrial metering
- DSRC, ISM band radios

YAGEO CORPORATION

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ELECTRICAL SPECIFICATIONS @ 25°C

General Specifications				
Antenna type	Nominal Impedance	Polarization	Radiation pattern	Power withstanding
Internal LDS	50Ω	Linear	Omni	5W
Frequency (MHz)		2400-2500MHz		
Return Loss (dB)		< -10		
Efficiency (%)		> 55		
Peak Gain (dBi)		> 4		

MECHANICAL SPECIFICATIONS

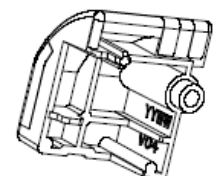
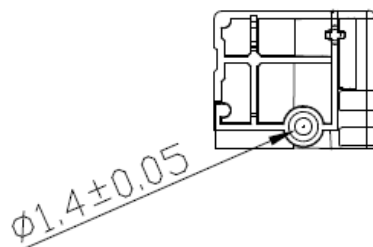
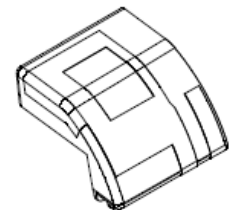
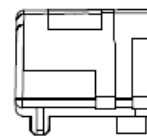
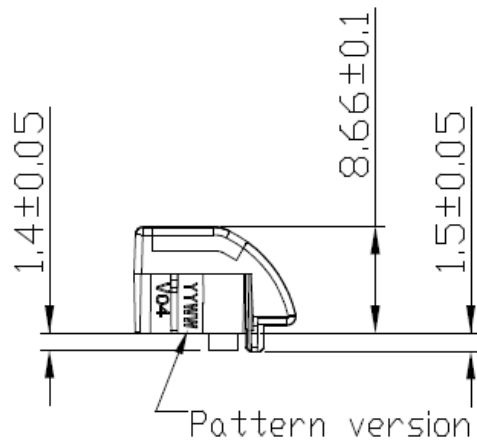
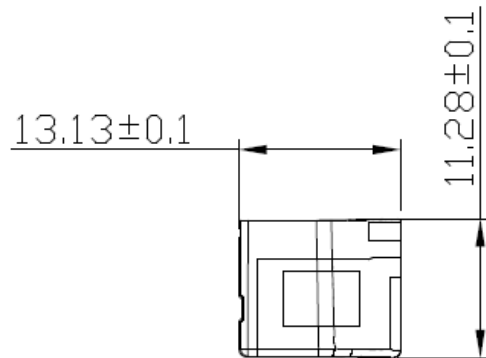
W3990L			
Dimension (Width x Length x Height)	Housing Material	Color	Weight
13.13 x 11.28 x 10.16 mm	China Plastics 6010LM/BK701	Black	0.6g
Operating Temperature	Storage Temperature		RoHS Compliant
-20 / +80° C	-20 / +80° C		Yes

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Mechanical Drawing

W3990L



Note:

1. LDS Plating: Cu:12-16um, Ni:2-4um
2. Dimensions: mm , Unless otherwise specified, all tolerances are ± 0.2 mm

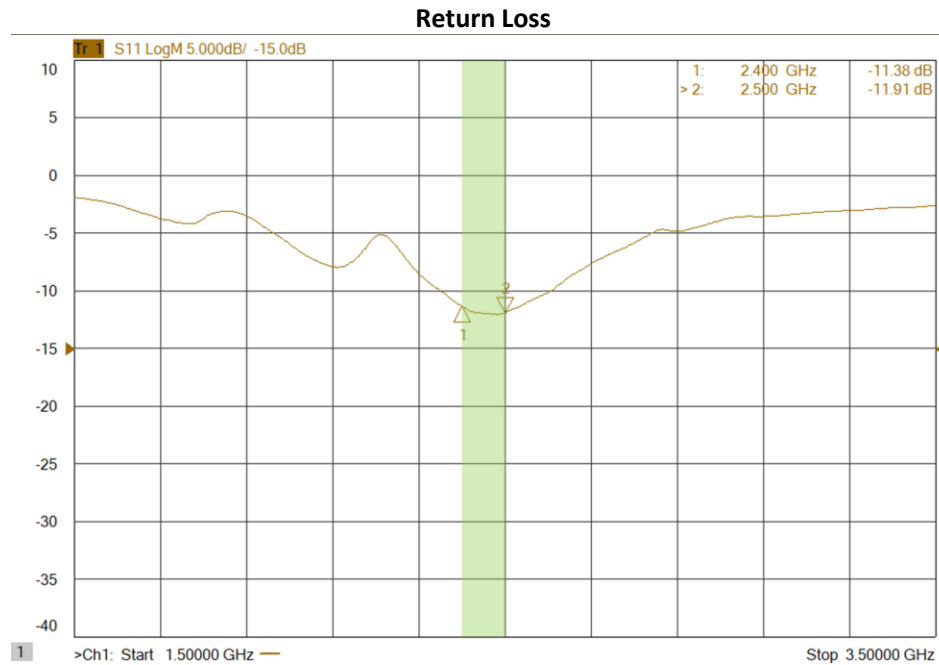
Test Setup

W3990L



Charts- Return Loss & Efficiency & Peak Gain

W3990L



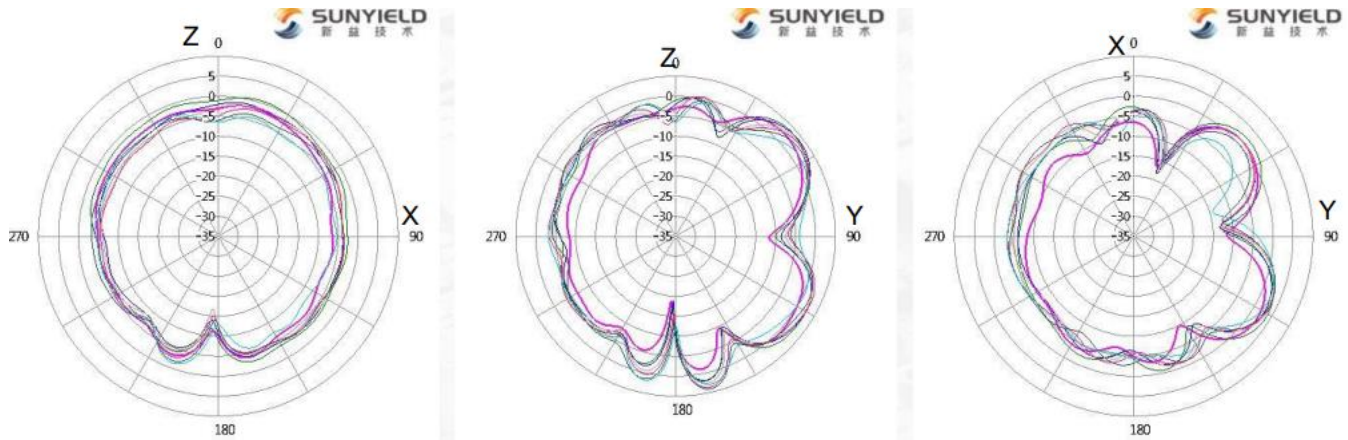
Efficiency and Peak Gain

Frequency 频率(MHz)	Efficiency 效率(%)	Gain 增益(dBi)
2400	59.23	4.57
2410	59.04	4.53
2420	58.90	4.34
2430	58.80	4.12
2440	59.61	4.07
2450	58.20	4.04
2460	59.54	4.28
2470	56.96	4.08
2480	57.10	4.12
2490	56.20	4.16
2500	55.97	4.26

Charts- Radiation Pattern

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Radiation Patterns



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PACKAGING

W3990L

TBD

For More Information:

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