ST0330-31-X02-A

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Datasheet

0.69-0.96GHz, 1.7-2.7GHz

External / In-building



Bar Antenna

Features:

High performing full 4G LTE band antenna with SMA/RP-SMA connector for indoor applications

Applications:

- CPE Router, Set-top boxes, Gateway
- IoT devices
- 4G LTE Mesh
- Smart Metering
- Robotics



Electrical Specifications Antenna Characteristics Antenna Type Radiation Pattern Polarization Max. Input Power Impedance Bar Antenna Omni Linear 2W 50Ω

Frequency (GHz)	0.69~0.96	1.71~2.17	2.3~2.7
Return Loss (dB)	< -10	< -10	< -10
Gain, Peak / Average (dB)	2.0 / -2.7	2.1 / -5.4	0.1 / -5.8
Efficiency / Average (%)	55	29	27

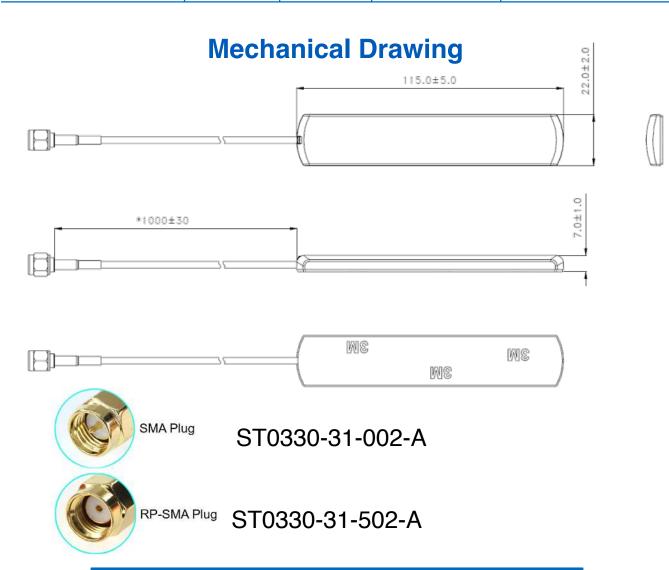
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Mechanical Specifications

Environmental				
Temperature Range (°C)	-40 to 85			
Humidity	Non-condensing 65°C 95% RH			
RoHS Compliant				

Part Number	Length (mm)	Weight (g)	Connector Type	Radome
ST0330-31-002-A	115	25.15	SMA Plug	ABS
ST0330-31-502-A	115	25.15	RP-SMA Plug	ABS

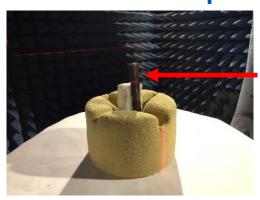


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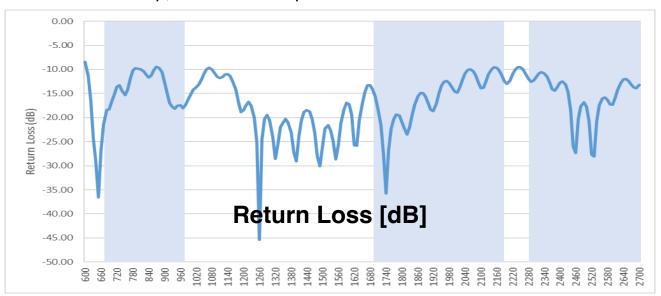
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Charts in Free Space

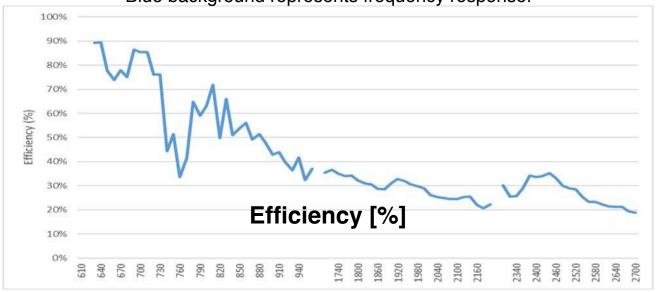


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Test setup, measurement performed in 3D Anechoic Chamber



Blue background represents frequency response.

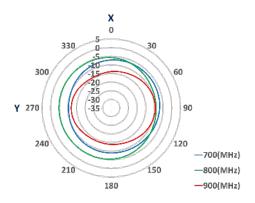


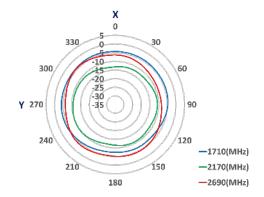
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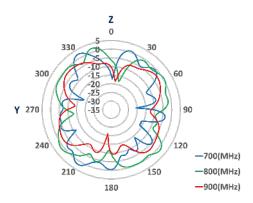
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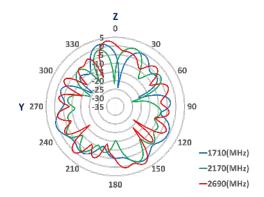
Radiation Pattern - Free Space XY - Pane



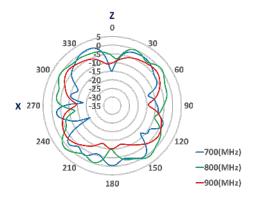


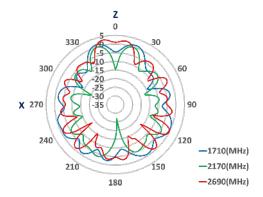
YZ - Plane





XZ - Plane





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Revisions							
Rev	Description	Date	ECN	Approval			
Α	Initial Release	2022-10-25	ST0330-31-002-A-RA00	ATC			
В	RF Performance update	2023-01-02	ST0330-31-002-A-RB00	ATC			

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