



L001415-01

868-915 MHz ISM Mini Puck Antenna

L001415-01 is a low-profile antenna operating in the 868-915 MHz ISM, LoRa, LPWAN frequency bands.

The antenna has an integrated side-entry 1m (3 feet) RG174 cable with SMA male connector and adhesive backing for ease of installation in multiple applications. IP67 rating also means the antenna is suited for both indoor and outdoor applications.

FEATURES AND BENEFITS

- Multi-band covering ISM 868-915 MHz
- IP67 rated
- Suitable for both indoor and outdoor applications
- Side entry cable and low-profile format
- High gain & stable radiation patterns
- Ease of mounting via adhesive backing

APPLICATIONS

- ISM, Wi-Fi HaLow, LoRa, Sigfox
- IoT Devices
- Handheld Devices
- Smart Home & Appliances
- Smart Security
- Aids for Daily Living (ADL)

SPECIFICATIONS

ELECTRICAL SPECIFICATION	
Operating Frequency (MHz)	868-915
VSWR Max	< 2.3 :1
Efficiency Typ. (%)	65.6
Average Gain Typ.	- 1.9 dB
Peak Gain Typ.	1.9 dBi
Impedance	50 ohms
Polarization	Linear

Gain performance measured data might vary due to different chamber test tolerance.

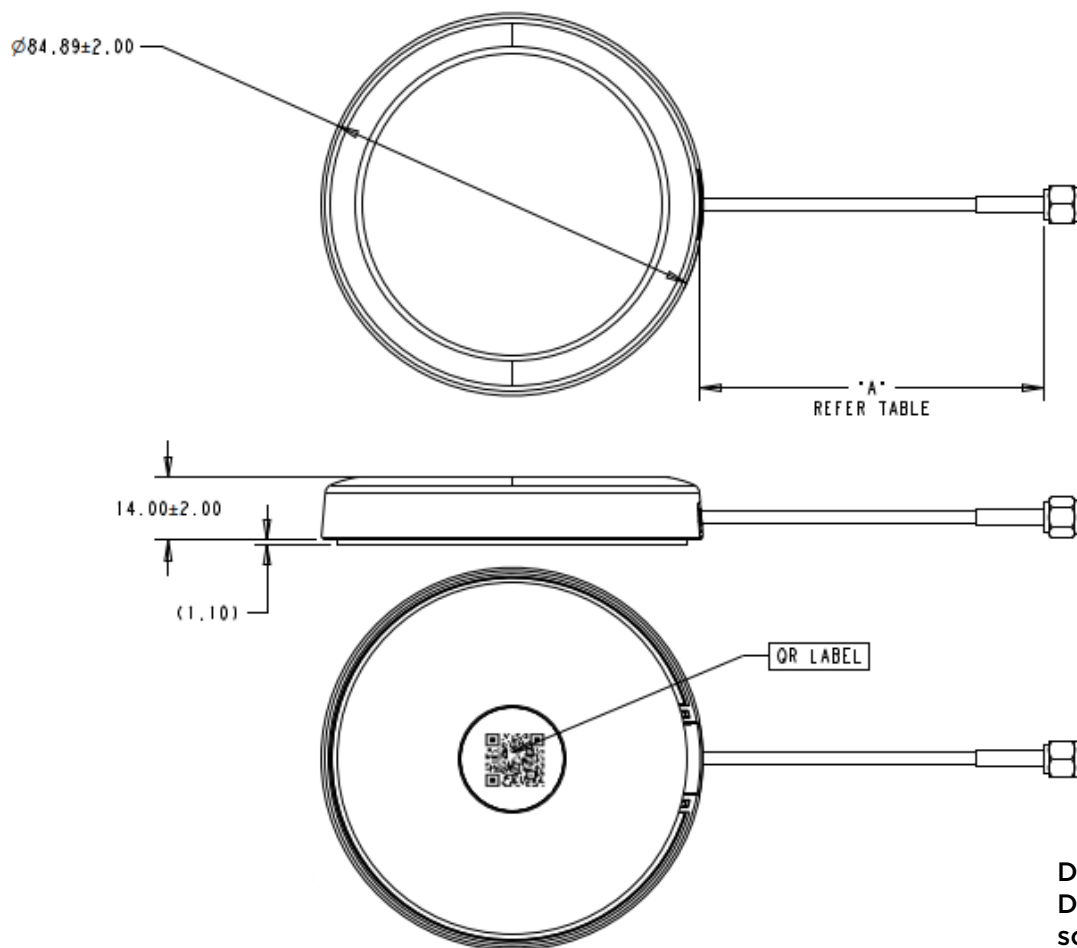
MECHANICAL SPECIFICATION

Dimensions LxD mm (in.)	14 x \varnothing 85 (0.55 x \varnothing 3.35) \pm 1%
Weight	< 80 g
Mounting	Adhesive
Mating Connector	SMA male
Cable	RG174

ENVIRONMENTAL SPECIFICATION

Operating Temperature $^{\circ}$ C ($^{\circ}$ F)	-40 to +90 (-40 to +194)
Storage Temperature $^{\circ}$ C ($^{\circ}$ F)	-40 to +90 (-40 to +194)
IP Rating	IP67
Hazardous Materials	A certificate of conformance is available from the product page on TE website.

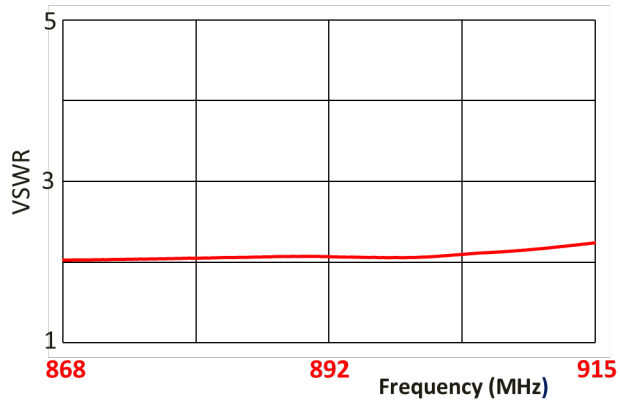
MECHANICAL DRAWINGS



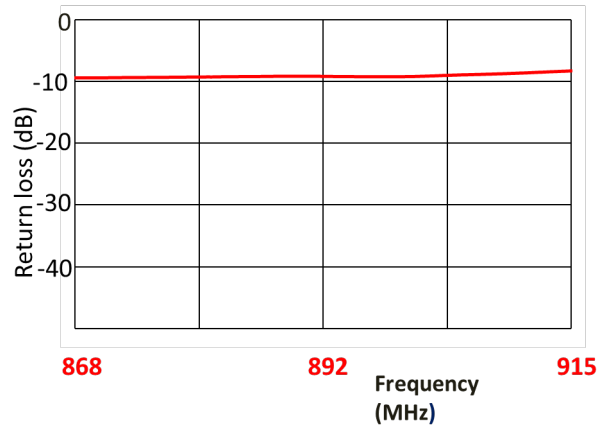
Dimensions: mm
Diagram is not to scale

RF DATA

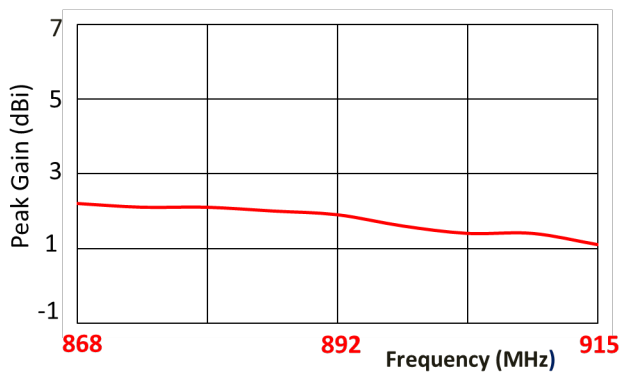
VSWR



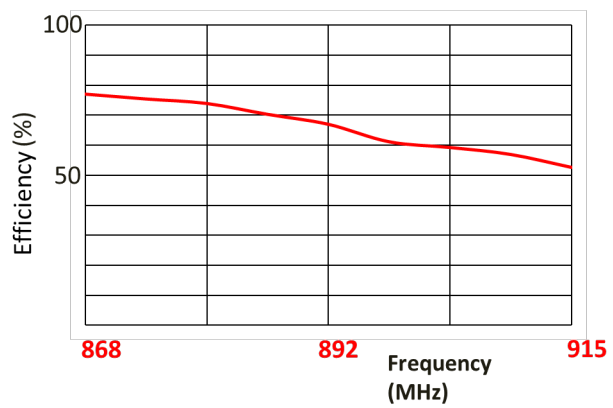
Return Loss



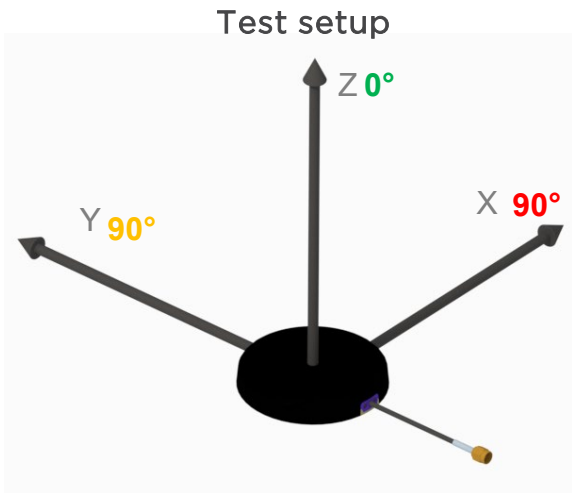
Peak Gain



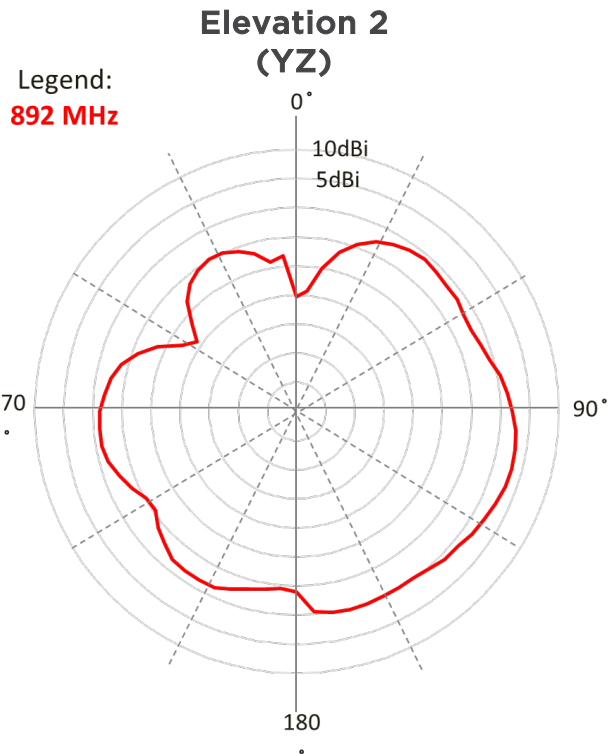
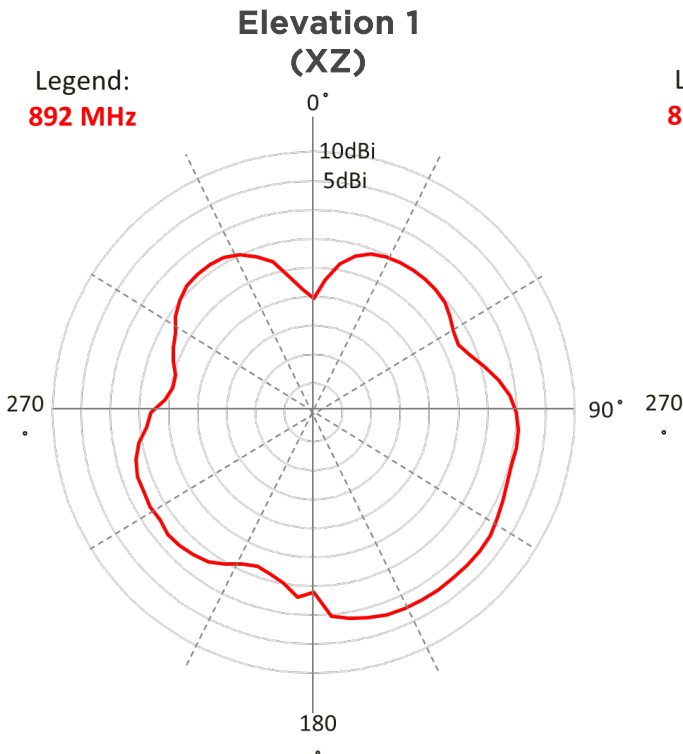
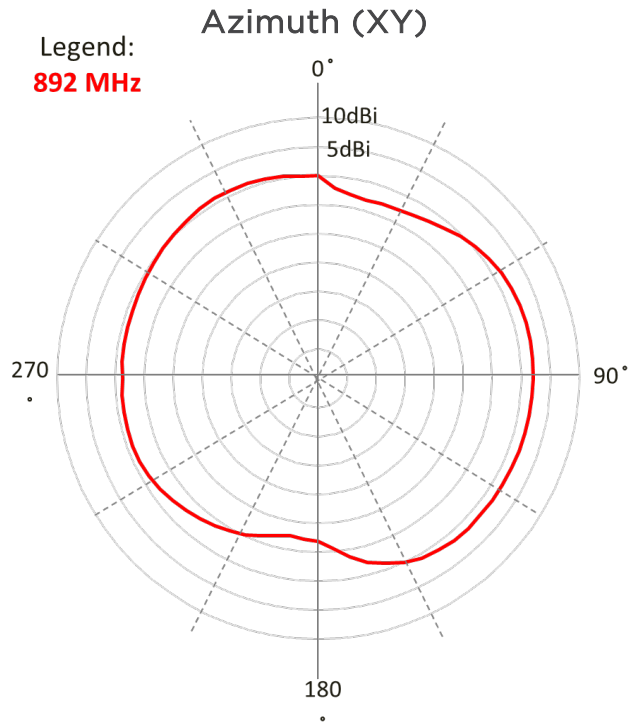
Efficiency



RADIATION PATTERNS

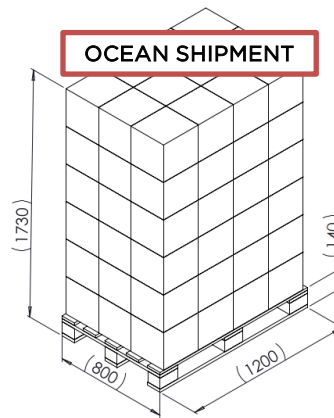
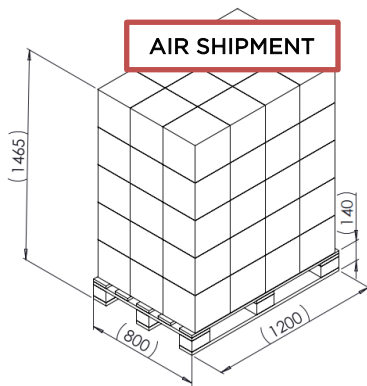
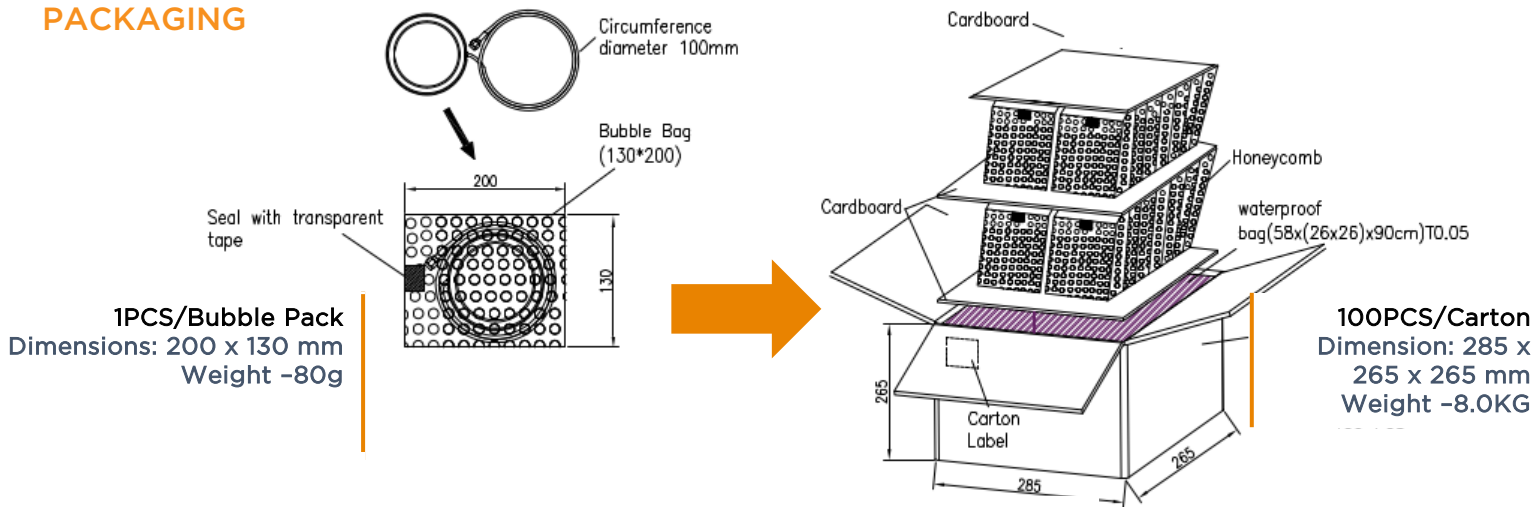


Azimuth Plane (XY)
 Elevation 1 Plane (XZ)
 Elevation 2 Plane (YZ)



Data measured in free space and on reference ground plane of 100 x 100 x 1.6 mm ground plane condition, application data might vary.

PACKAGING



PART NO.	Shipping Weight - kg (Estimated) Include Pallet Weight - 12kg		
	MASTER CARTION	AIR PALLET	OCEAN PALLET
L001415-01	8.0	492.0	588.0

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