



L000633-01

450/900 MHz Outdoor Omnidirectional Mast-Mountable Antenna

The L00633-01 antenna has a dual-band frequency coverage from 450-470 MHz and 901-941 MHz. This provide options for licensed communication in the 450-470 MHz range and unlicensed communications in the 901-941 MHz range.

The antenna is mast mountable, using the supplied mounting hardware, and suitable for masts and poles from 50-65mm in diameter and suitable for indoor or outdoor applications. IP56 rating is provided while the antennas drain plug is attached.

FEATURES AND BENEFITS

- Dual-band frequency coverage (450-470 / 901-941 MHz) reduces tower rental/installation requirements
- Rugged radome
- Suitable for indoor and outdoor (IP56) operations
- Capable of upright or inverted mounting
- Mast mountable with supplied bracket
- Narrow beamwidth (high gain) in vertical plane
 - 16-19 degrees low band
 - 9-10 degrees high band
- Installation hardware included

APPLICATIONS

- 450 MHz (licensed) and 900 MHz (unlicensed) operations
- Indoor/outdoor
- Utilities
- Secure Grid Applications
- Private Networks

ELECTRICAL SPECIFICATION

Operating Frequency (MHz)	450-470	901-941
VSWR - Average	<2.0:1	
Peak Gain - Max (dBi)	7.3	7.5
Total Efficiency Average (%)	77	
Input Max Power (W)	4	
Elevation Beamwidth	16-19°	9-10°
Azimuth Beamwidth	360°, Omnidirectional	
Polarization	Linear, Vertical	
Nominal Impedance (Ohms)	50	

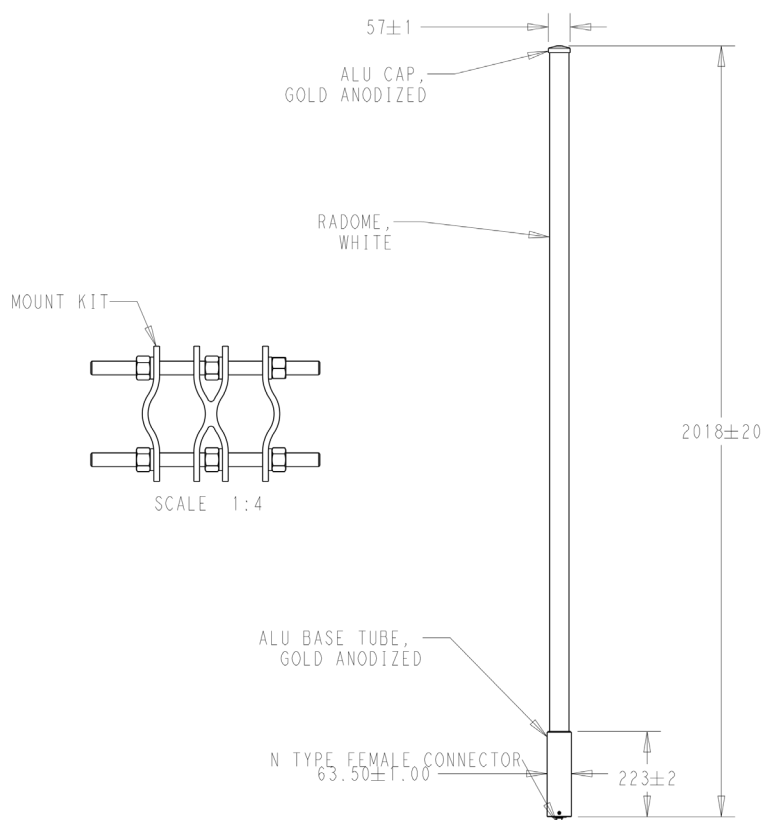
MECHANICAL SPECIFICATION

Dimensions - Height x Diameter - mm (in.)	2018 x 65Ø (79.45 x 2.56Ø)
Weight - kg (lbs.)	3.45 (7.6)* *Antenna Only - Not Including Mounting Bracket
Radome	Fiberglass (White)
Base & Top Cap	Anodized Aluminium
Connector	N-Type Female
Cable Length - cm (in.)	50 (19.7)
Mast Mounting Diameter - mm (in.)	50 - 65 (1.97 - 2.56) - Mounting Bracket Supplied

ENVIRONMENTAL SPECIFICATION

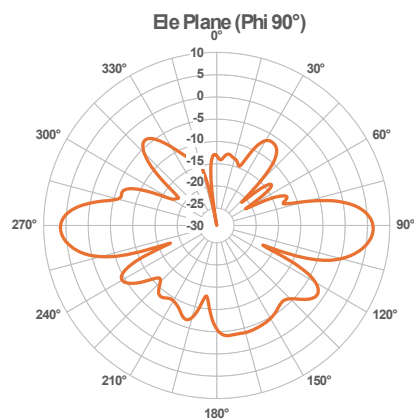
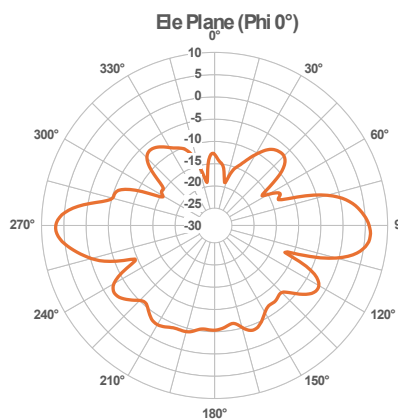
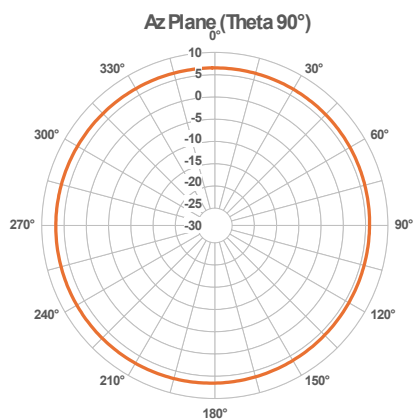
Operating Temperature - °C (°F)	-40 to +60 (-40 to +140)
Operating Humidity %	5 - 95
Wind Speed Operational - MPH	100
Wind Speed Survival - MPH	130
Operating Temperature - °C (°F)	-40 to +85 (-40 to 185)
Storage Temperature - °C (°F)	-40 to +85 (-40 to 185)
Material Substance Compliance	RoHS Compliant CE & UKCA

MECHANICAL DRAWING & INSTALLATION SKETCH

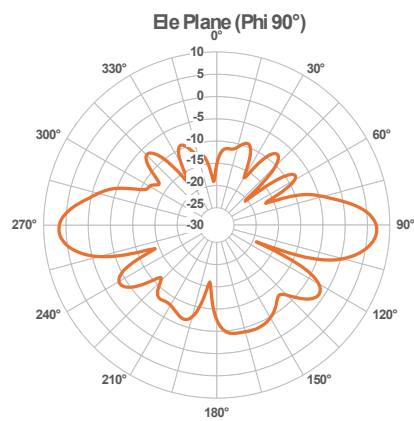
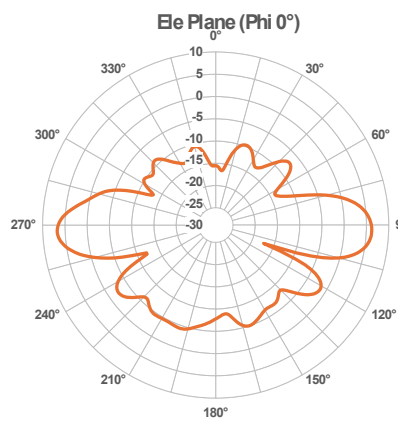
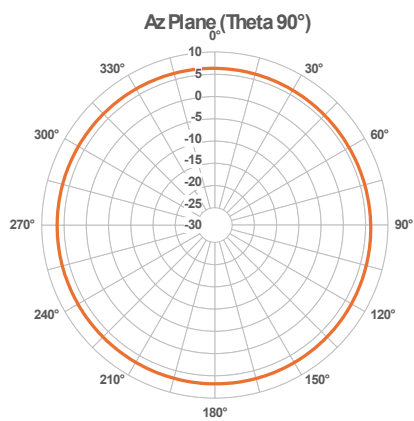


RADIATION PATTERNS

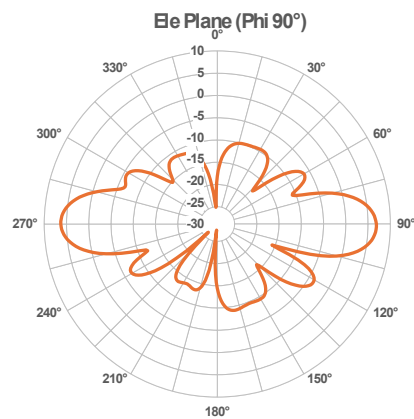
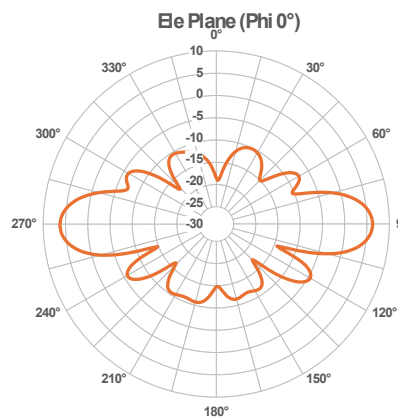
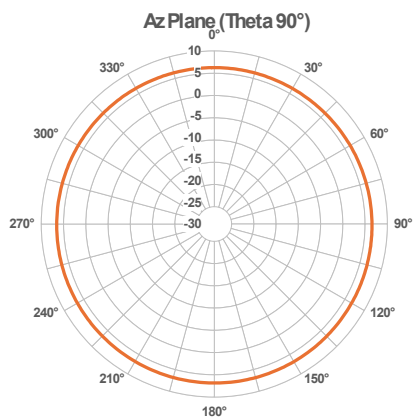
Radiation Patterns at 450 MHz



Radiation Patterns at 460 MHz

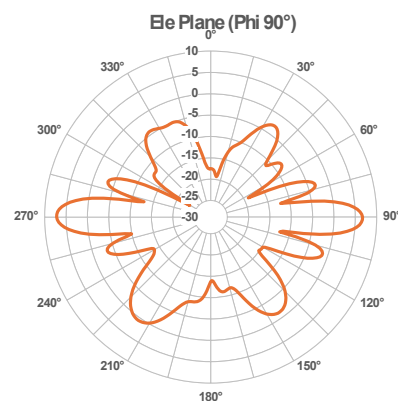
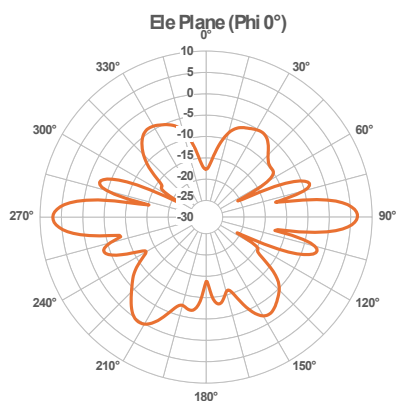
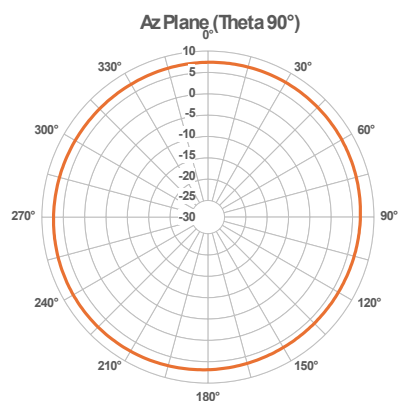


Radiation Patterns at 470 MHz

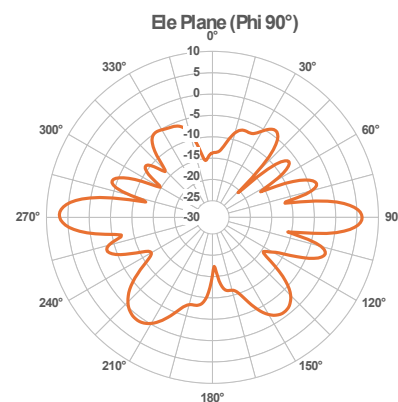
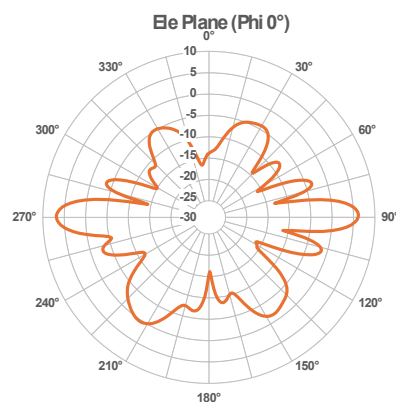
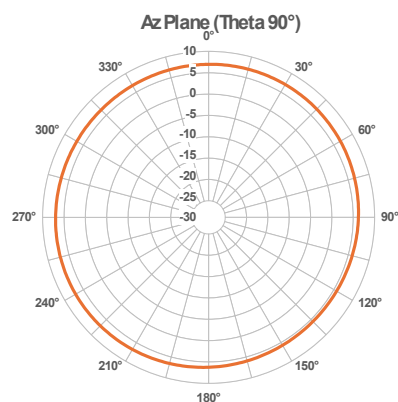


RADIATION PATTERNS

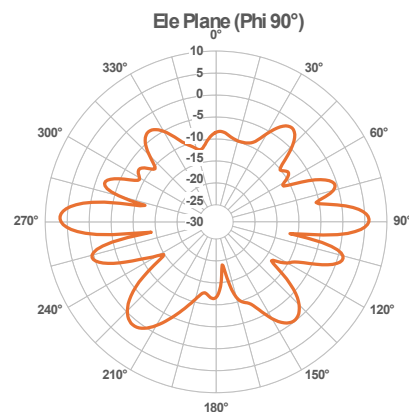
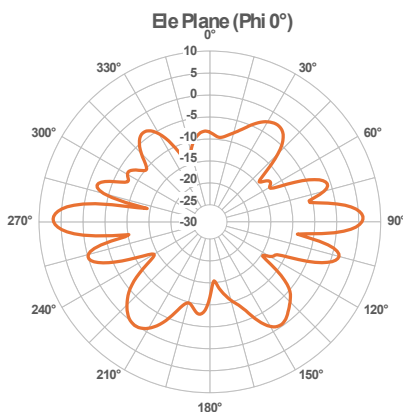
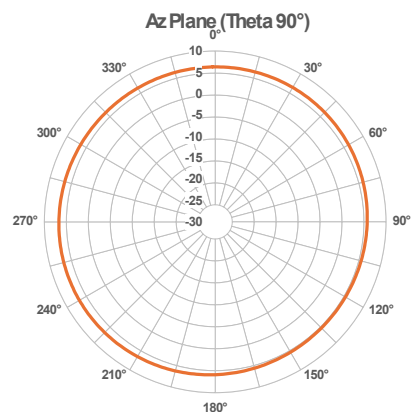
Radiation Patterns at 901 MHz



Radiation Patterns at 915 MHz

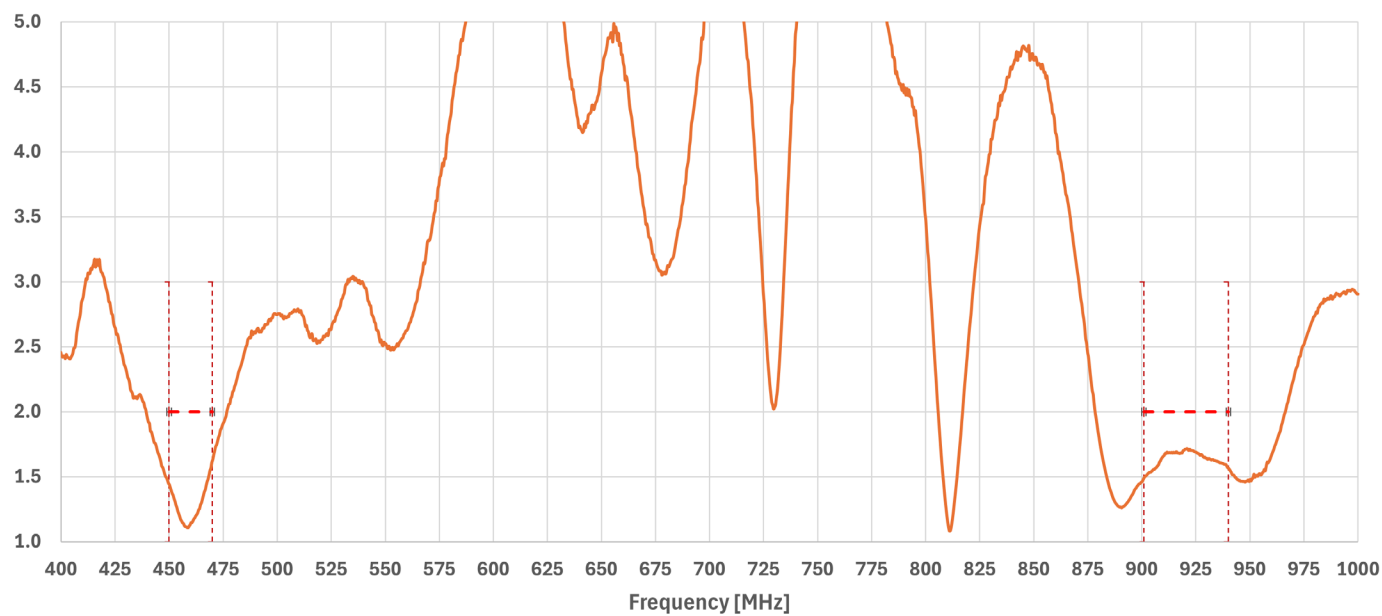


Radiation Patterns at 940 MHz

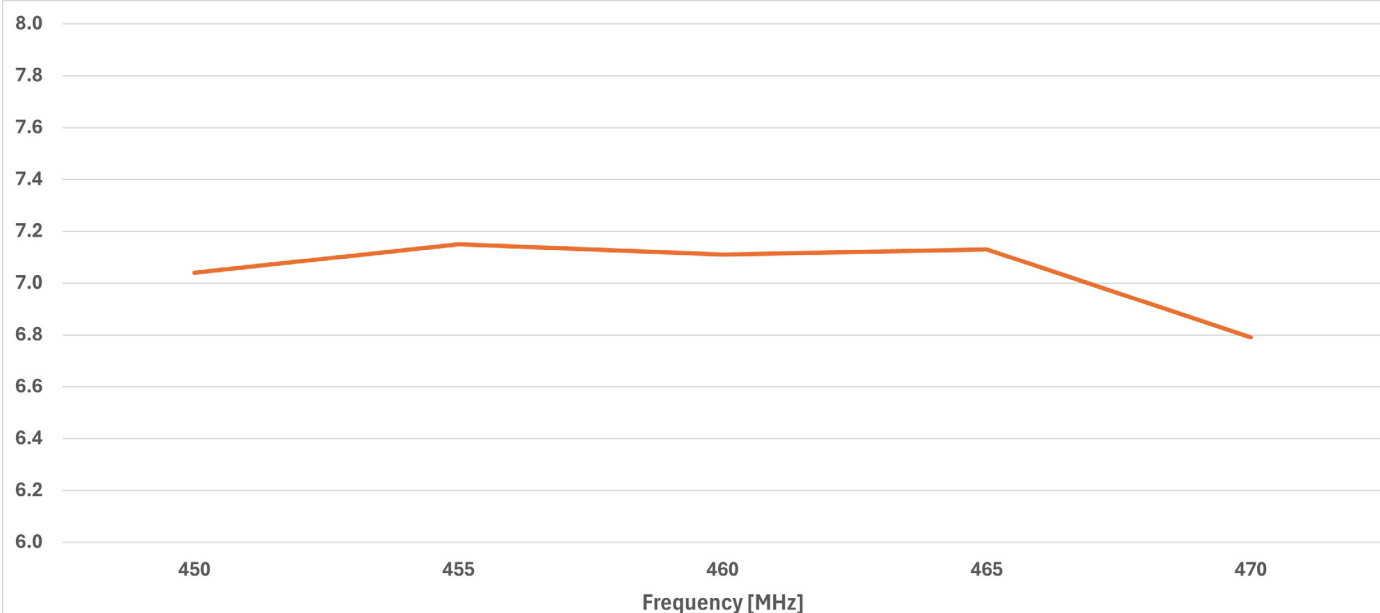


RF PERFORMANCE

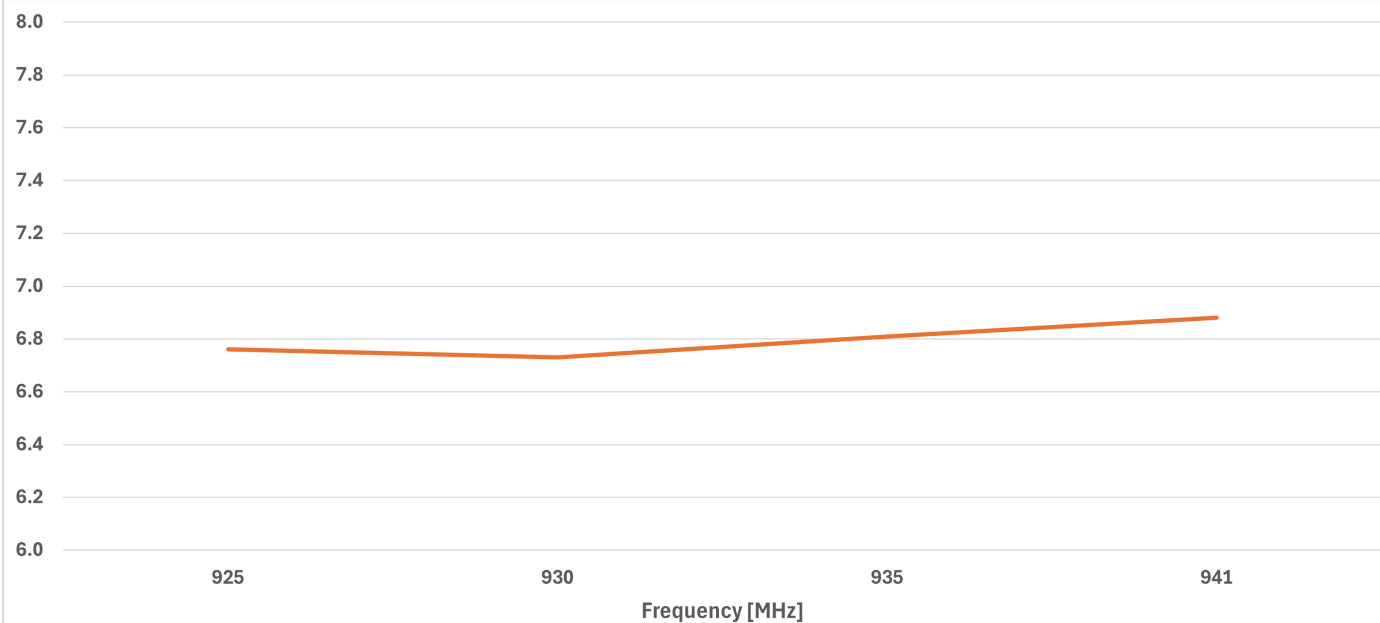
VSWR



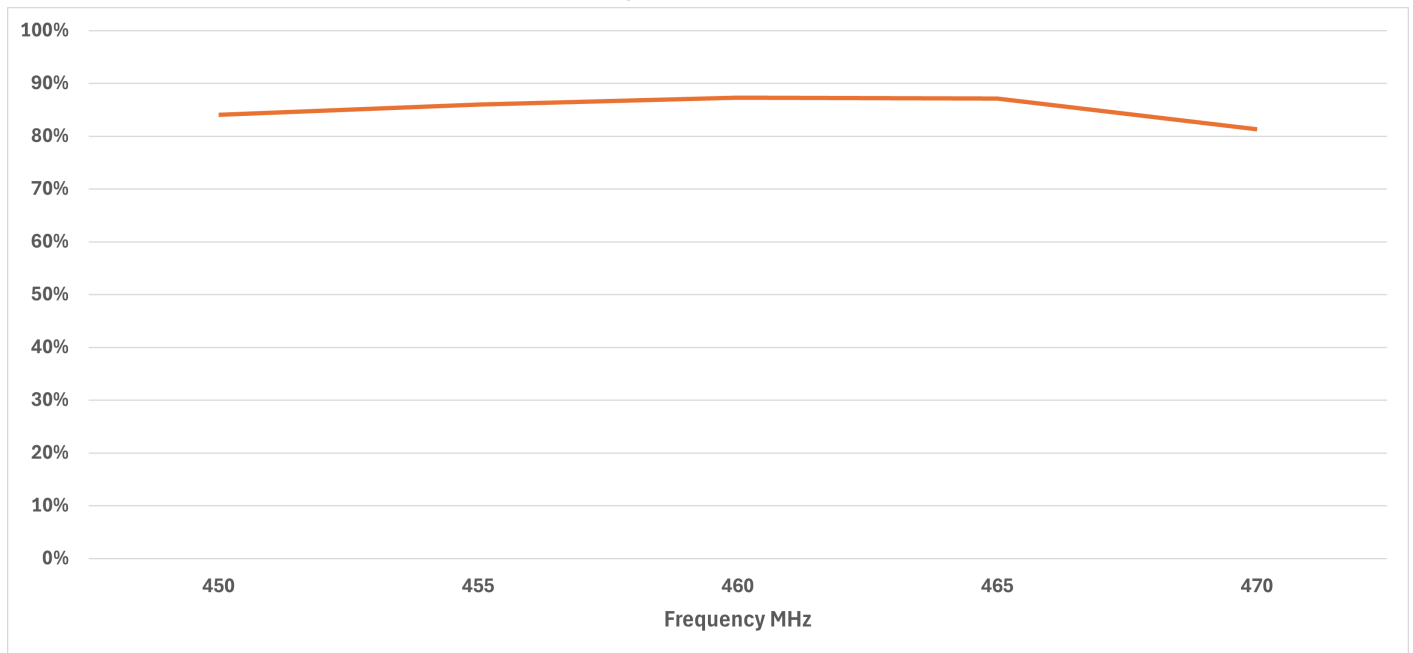
Peak Gain (dBi) - 450-470 MHz



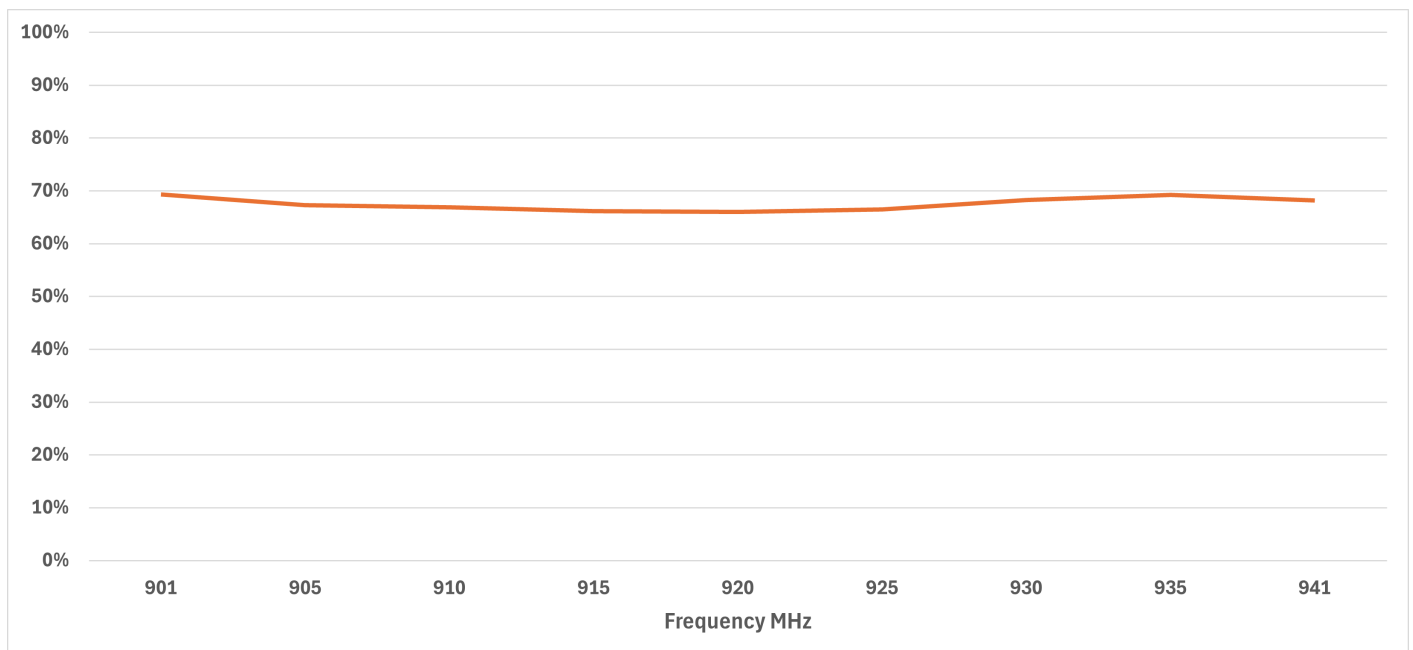
Peak Gain (dBi) - 901-941 MHz



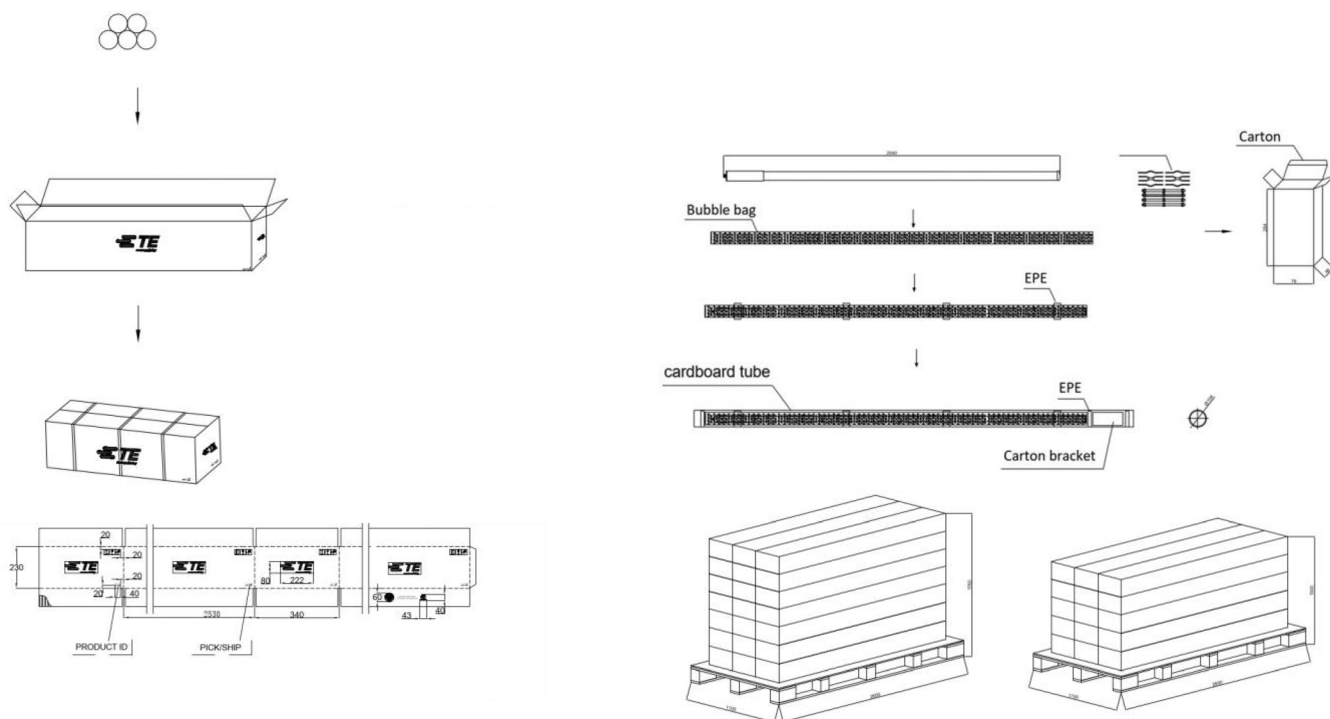
Efficiency % - 450-470 MHz



Efficiency % - 901-941 MHz



PACKING INFORMATION



PACKAGED DIMENSIONS	MASTER CARTON	AIR PALLET	OCEAN PALLET
Number of Antennas	5	75	105
Length - cm (in)	23 (9)	130 (51.2)	176 (70)
Width - cm (in)	253 (100)	260 (102.4)	260 (102.4)
Height - cm (in)	34 (13.4)	110 (43.3)	110 (43.3)
Est. Shipping Weight - kg (lbs.)*	45.6 (100)	684 (1505)	957 (2105)

* Including mounting hardware

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