

AOV2S192

Wideband Omni Antenna



General Description

The AOV2S192 antenna is a wideband omni-directional antenna that is designed to operate in the range of 1.35-2.5GHz with 2db of gain. It offers an omnidirectional antenna pattern and is vertically polarized. The small, lightweight design and TNC connectors make this an ideal match for Silvus radios. Because the antenna offers good performance throughout the entire range of frequencies, it is an excellent choice for multi band operations.

Features

- 1.35-2.5GHz frequency range
- 100 Watts power handling
- Omnidirectional Pattern
- TNC-Male Connector

Electrical Specifications

Frequency Range	1.35—2.5 GHz
Gain	0~2 dBi +/- 1 dBi
Horizontal Beam Width	360°
Low Band Vertical Beamwidth	99.3° (L-Band 1.35—1.45 GHz)
Mid Band Vertical Beamwidth	110° (L/S Band 1.5—2.1 GHz)
High Band Vertical Beamwidth	58° (S Band 2.2—2.5 GHz)
Impedance	50 Ohms
Max. Power	100 W
Max VSWR	2.0:1
Polarization	Vertical



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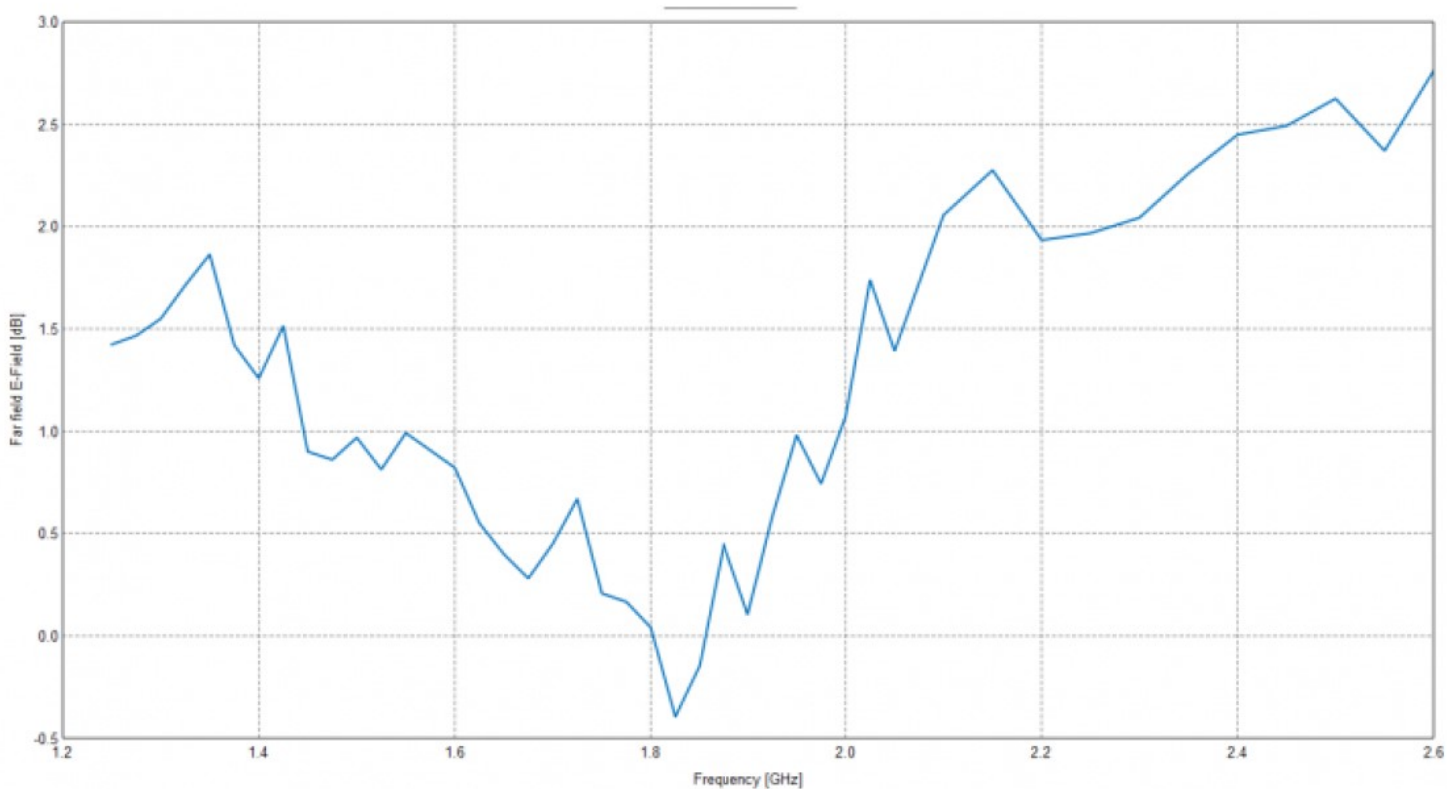
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Mechanical Specifications

Weight (oz/grams)	3.5 / 99.8 (Standard) (AOV2S192-TM) 3.5 / 99.8 (Spring) (AOV2S192S-TM) 3.5 / 99.8 (Gooseneck) (AOV2S192G-TM)
Length (inches/mm)	6.09 / 154.69 (Standard) (AOV2S192-TM) 7.59 / 192.79 (Spring) (AOV2S192S-TM) 8.95 / 227.33 (Gooseneck) (AOV2S192G-TM)
Diameter (inches/mm)	0.81 / 20.62
Finish	Black
Connector	TNC-Male



Azimuth gain over frequency plot

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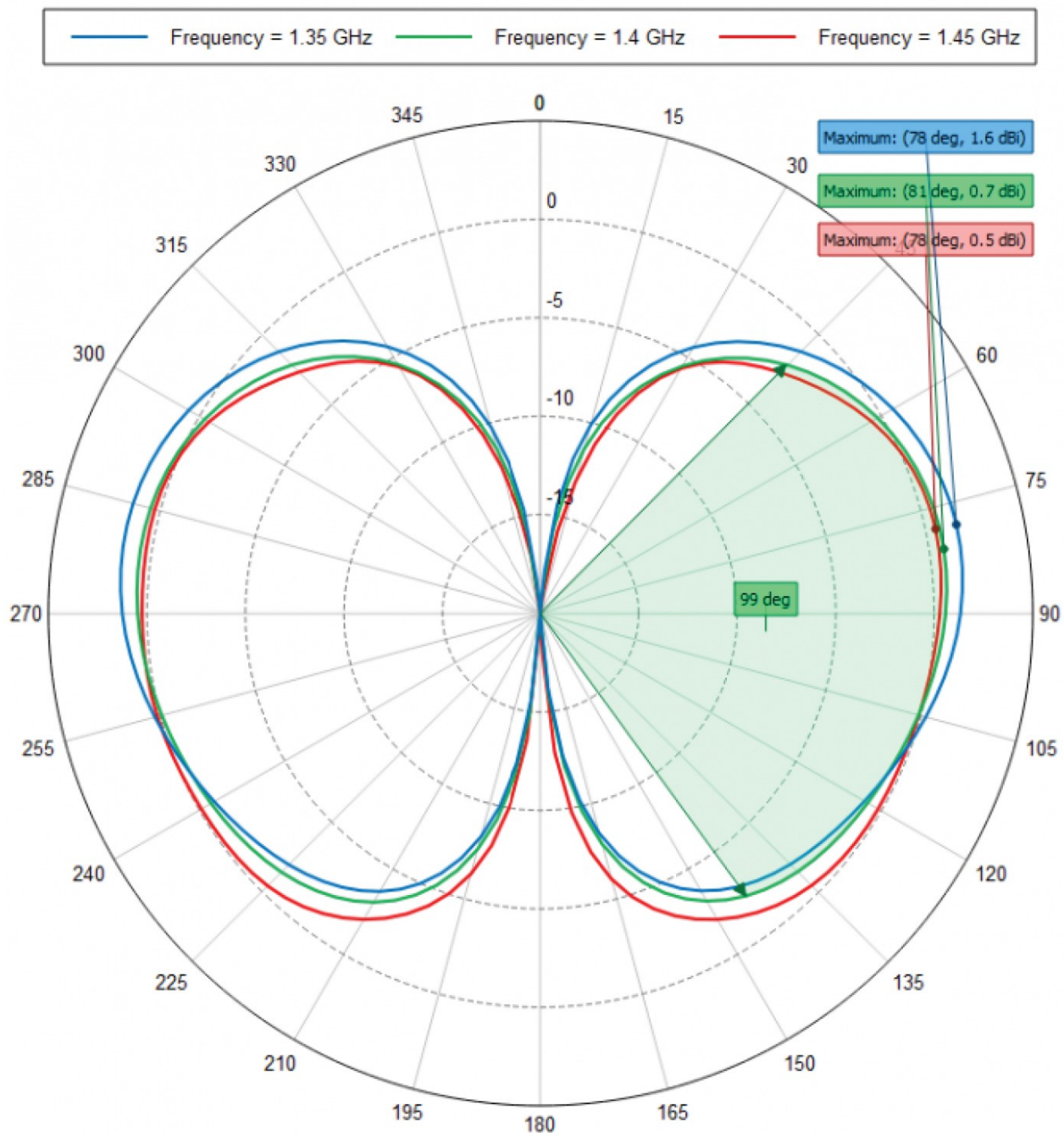
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Wideband Omni Antenna

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RF Antenna Patterns



Elevation Pattern, Low Band
Referenced to +5 dBi

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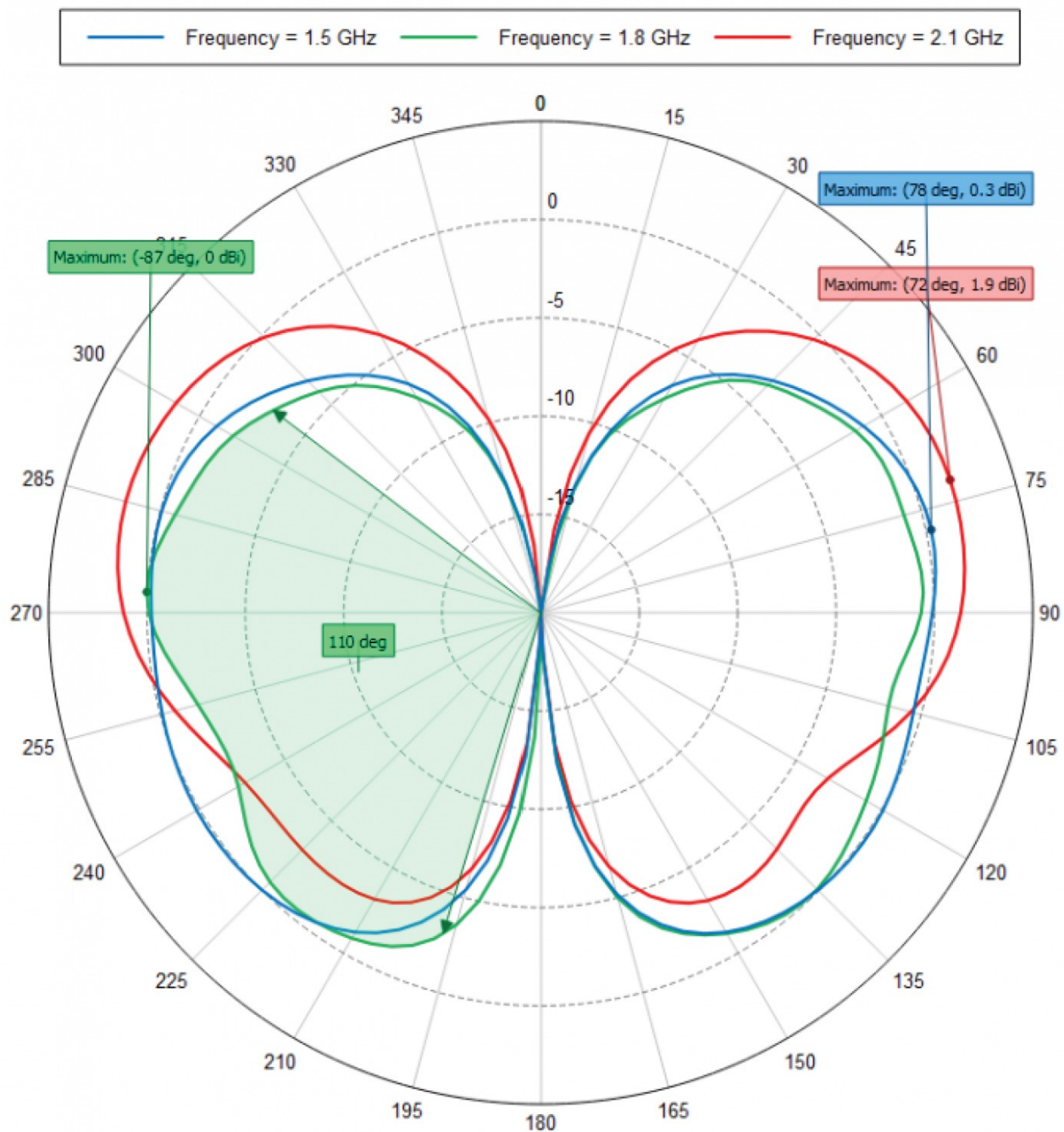
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Wideband Omni Antenna

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RF Antenna Patterns



Elevation Pattern, Mid Band

Referenced to +5 dBi

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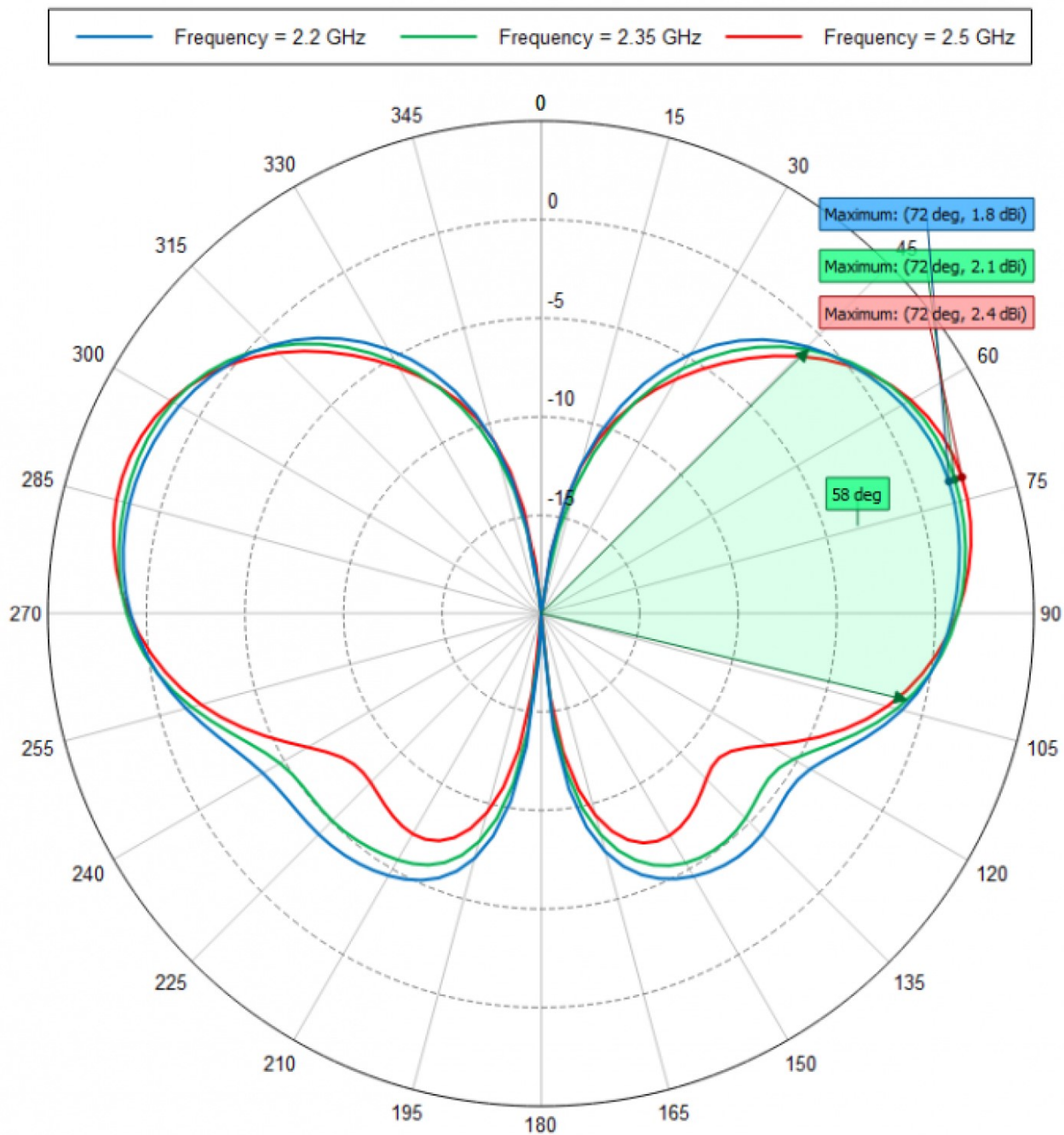
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Wideband Omni Antenna

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RF Antenna Patterns



Elevation Pattern, High Band
Referenced to +5 dBi

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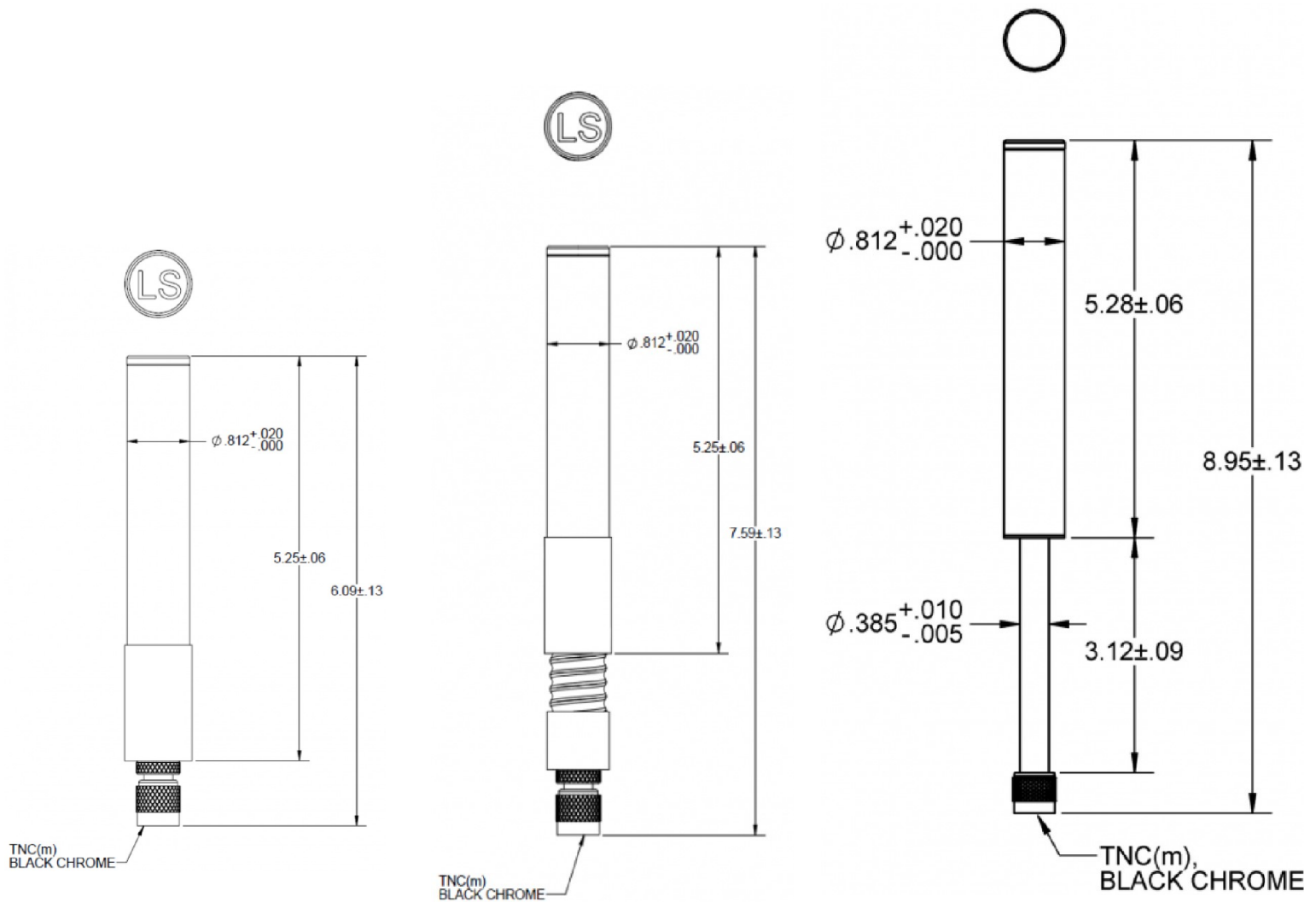
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Mechanical Drawings



Engineering Drawing

All dimensions are in inches

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