Part No. 1002789M0-AM30L0086
GPS, L1, B1, E1, G1, Iridium Antenna

1518 - 1675 MHz

Supports: Tracking, Agriculture, Industrial Devices, Navigation, Satellite Communications, IoT Systems

GPS, L1, B1, E1, G1, Iridium Antenna

1518 - 1675 MHz

KYOCERA AVX antennas deliver on the key needs of device designers for higher functionality and performance in smaller/thinner designs. These innovative antennas provide compelling advantages for GPS, L1, B1, E1, and Iridium band enabled devices.

Real-World Performance and Implementation

KYOCERA AVX Stamped metal antennas are designed to produce optimal performance and 3D radiation patterns, offering increased coverage range without compromising on footprint dimensions.

KEY BENEFITS

Reduced Costs & Time-to-Market

Standard antennas eliminate design fees, redesign cycle time and minimize risk associated with customer solution. Quicker time to market.

Quicker Time-to-Market

By optimizing antenna size, performance and emissions, customer and regulatory specifications are more easily met.

Environmental Compliance

Products are the latest RoHS version compliant.

APPLICATIONS

- Telematics systems
- Remote surveillance,
- Fleet Management & Asset Tracking
- Military and Security
- Iridium with GNSS
- Marine & Avionics Systems
- Law Enforcement & Public Safety

Electrical Specifications

Typical performance on 457.2 x 457.2 mm metal plane

Frequency (MHz)	1518 - 1675
Peak Gain	6 dBic
VSWR Match	< 1.2:1
Polarization	RHCP
Axial Ratio	< 5 dB at Zenith
Power Handling	2W CW
Feed Point Impedance	50 Ω unbalanced

Mechanical Specifications & Ordering Part Number

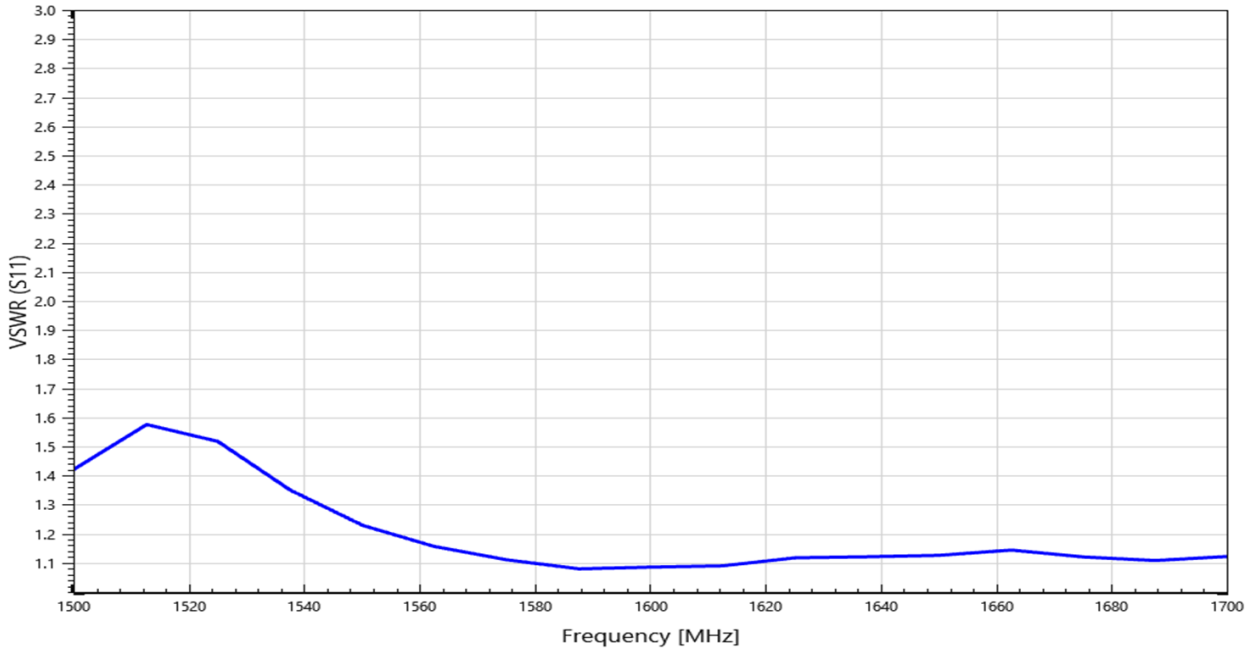
Ordering Part Number	1002789M0-AM30L0086
Size (mm)	78.0 x 78.0 x 6.6
Mounting	Adhesive tape
Weight (grams)	26.47
Cables and Connectors	1.13 mm Diameter & MMCX Compatible Connector
Mounting and Cable Length	VHB 3M5925 Adhesive; 86 mm, Black

1518 - 1675 MHz KYOCERA AVX Embedded Antenna Specifications
KYOCERA AVX produces a wide variety of standard and custom antennas to meet user needs.

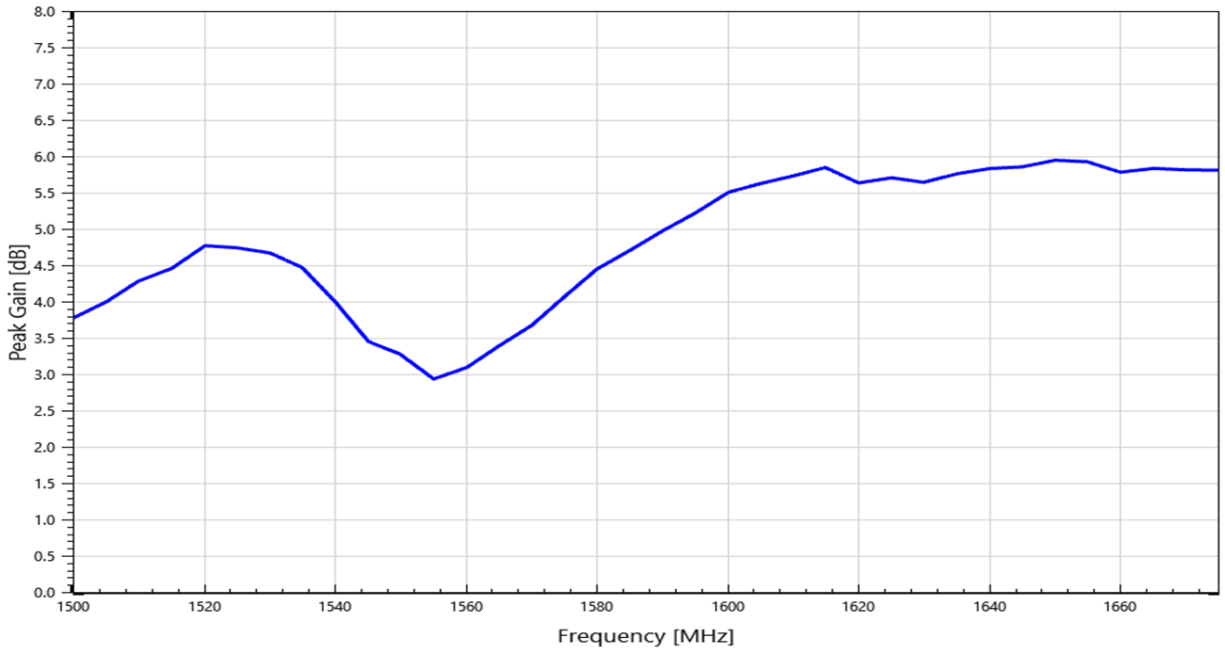
VSWR and Peak Gain Plots

Typical performance on 457.2 x 457.2 mm metal plane

VSWR



Peak Gain



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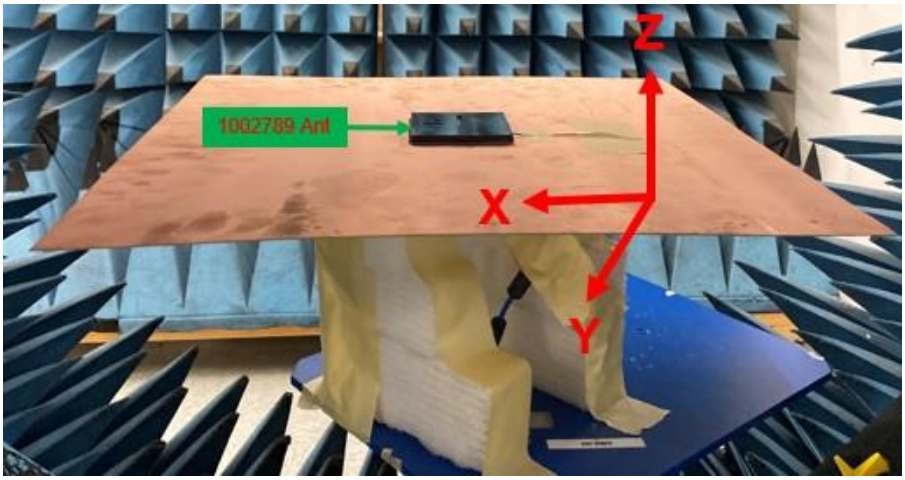
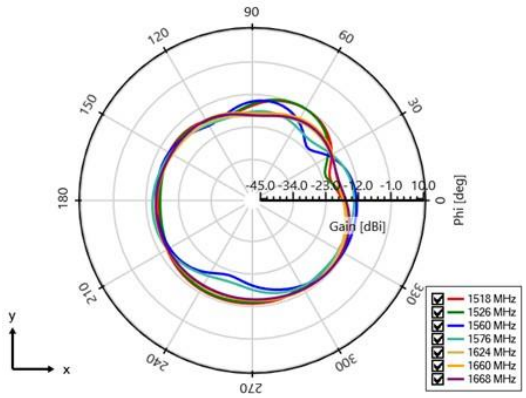
Antenna Radiation Patterns

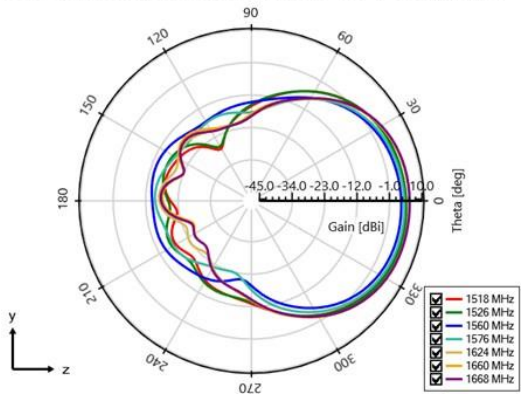
Typical performance on 457.2 x 457.2 mm metal plane
Measured @ 1518 - 1675 MHz



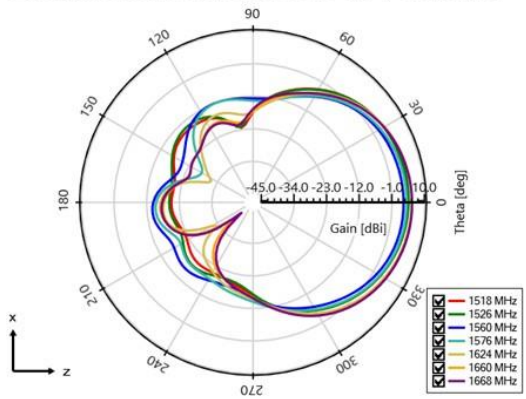
1002789_F_with 18 inches x 18 inches GROUND PLANE - Gain - θ = 90 deg [Plane XY]



1002789_F_with 18 inches x 18 inches GROUND PLANE - Gain - φ = 90 deg [Plane YZ]



1002789_F_with 18 inches x 18 inches GROUND PLANE - Gain - φ = 0 deg [Plane XZ]



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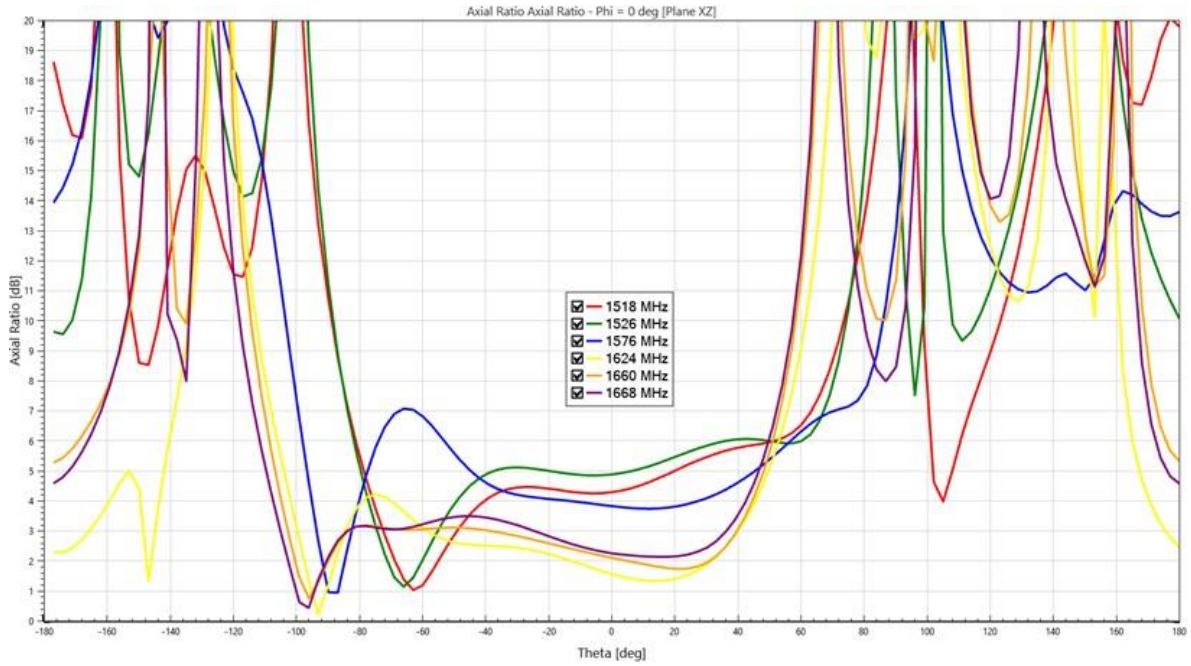
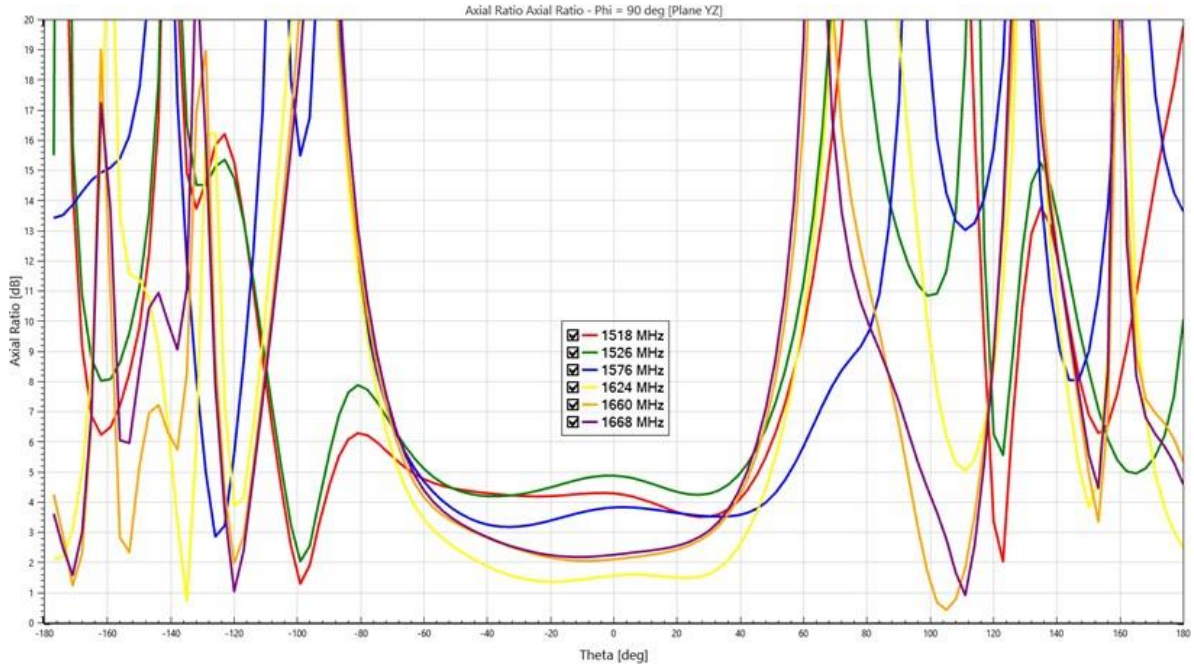
Axial Ratio

Typical performance on 457.2 x 457.2 mm metal plane
Measured @ 1518 - 1675 MHz





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RHCP, LHCP Plots

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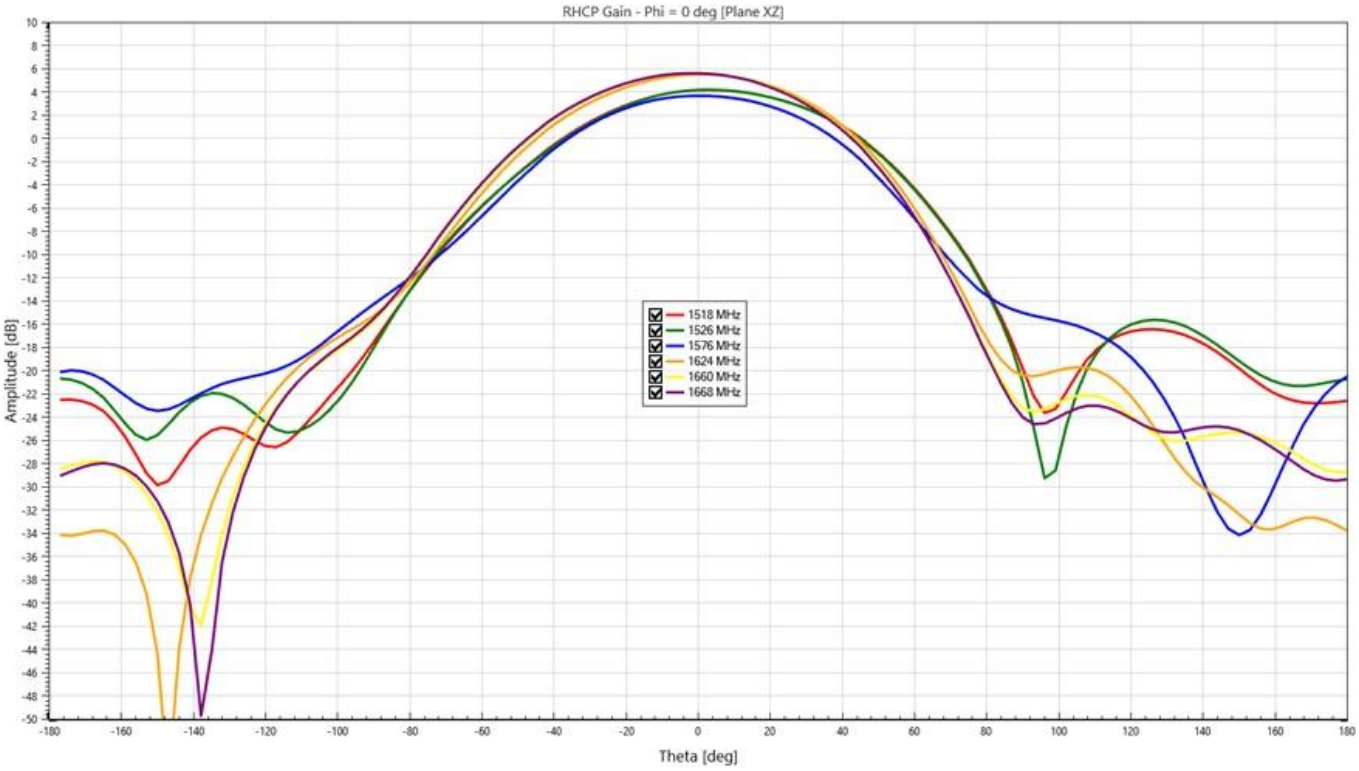
Measured @ 1518 - 1675 MHz



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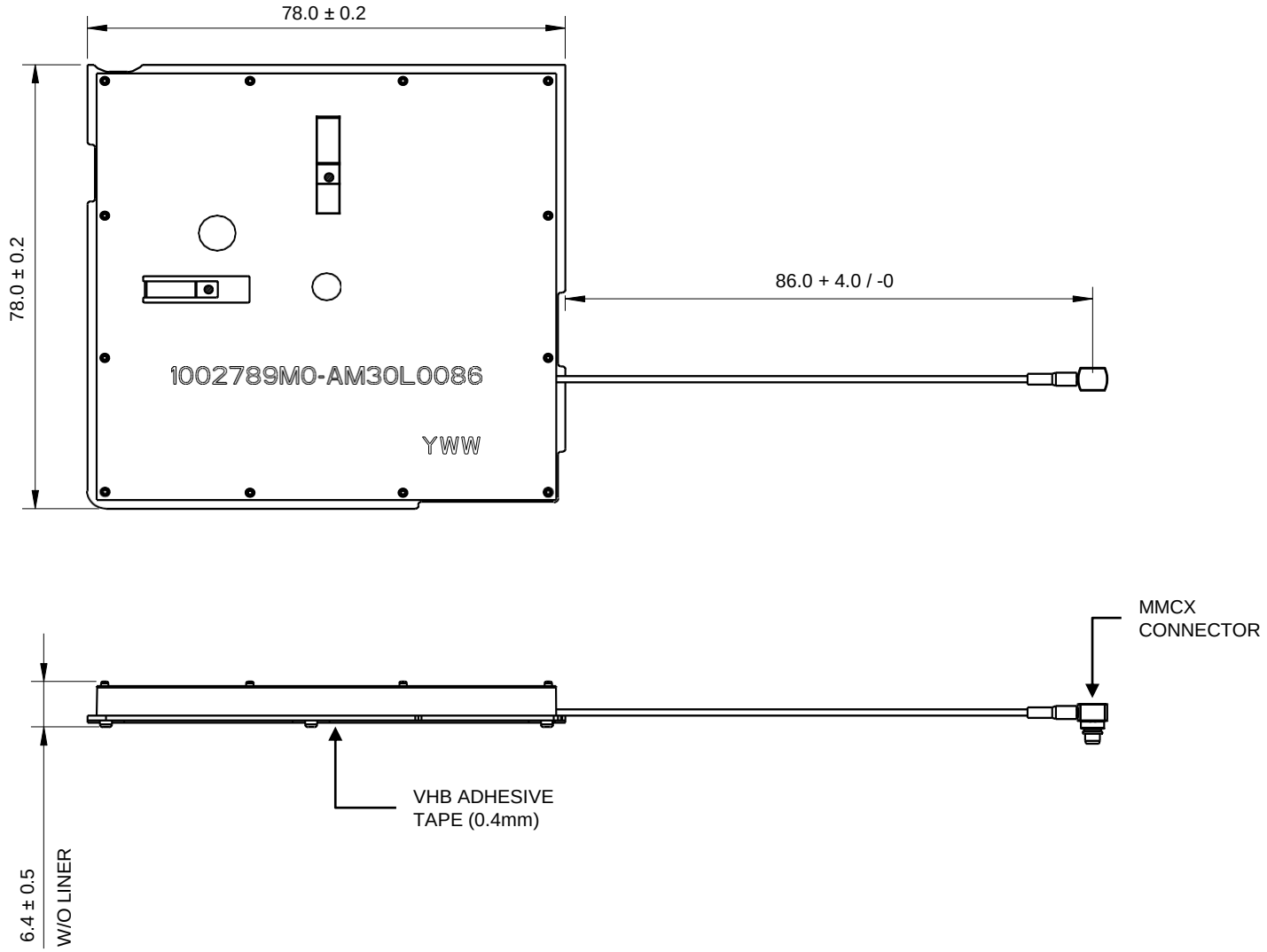
Antenna Dimensions

Typical antenna dimensions (mm)



Typical Ordering Part Numbers

Part Number	Polarization	Connector	Cable Length (mm)	Mounting Options
1002789M0-AM30L0086	RHCP	MMCX Compatible	86	VHB 3M5925 Adhesive

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