Part No. 1005194
UWB PCB Antenna with SMA Connector
6.0 – 8.5 GHz



KYOCERA AVX's 1005194 is a versatile off-board UWB PCB antenna optimized for applications spanning 6.0 – 8.5 GHz where off-board implementation is advantageous and necessary. The 1005194 antenna incorporates a rigid mounting structure through an SMA connection allowing for ease of assembly to any device.

UWB PCB Embedded Antenna

6000 – 8500 MHz

KEY BENEFITS

Stay-in-Tune
Ethertronics antenna technology provides superior RF field containment, resulting in less interaction with surrounding components.

Quicker Time-to-Market
By optimizing antenna size, performance and emissions, customer and regulatory specifications are more easily met.

Reliability
Products are the latest RoHS, WEEE version compliant

APPLICATIONS

- Embedded design
- Gateway, Access Point
- Handheld
- Telematics
- Tracking
- IoT, Industrial devices
- Smart Homes
- Agriculture

Electrical Specifications

Typical Performance using antenna with SMA connector in Free-space.

Frequency	6.0 – 8.5 GHz
Peak Gain	6.1 dBi
Average Efficiency	85%
VSWR Match	2.0 :1 max
Feed Point Impedance	50 ohms unbalanced
Polarization	Linear
Operation Temperature (°C)	- 40 to + 85
Power Handling	10 Watt

Mechanical Specifications & Ordering Part Number

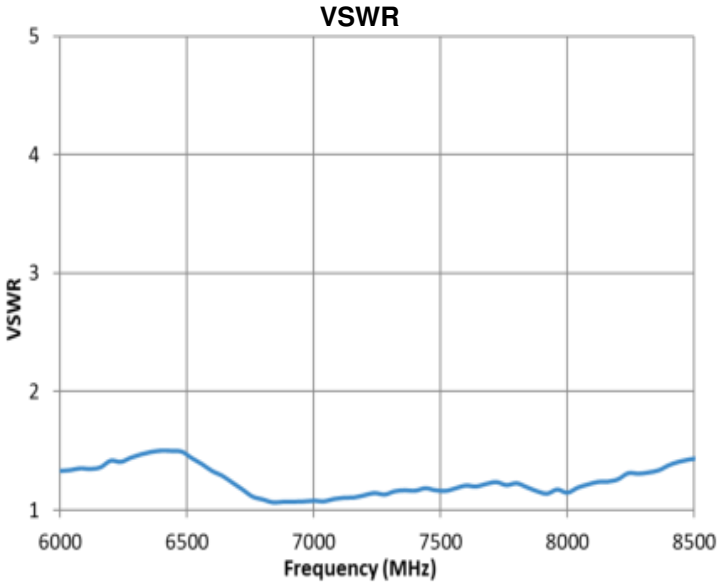
Ordering Part #	1005194-B02
Dimensions (mm)	20.6 x 18.6 x 0.8
Weight (grams)	2.8
Connector	SMA Connector JACK (Female)
Mounting	Screw Mount
Storage Temperature (°C)	- 40 to + 85
Packaging	PE bags

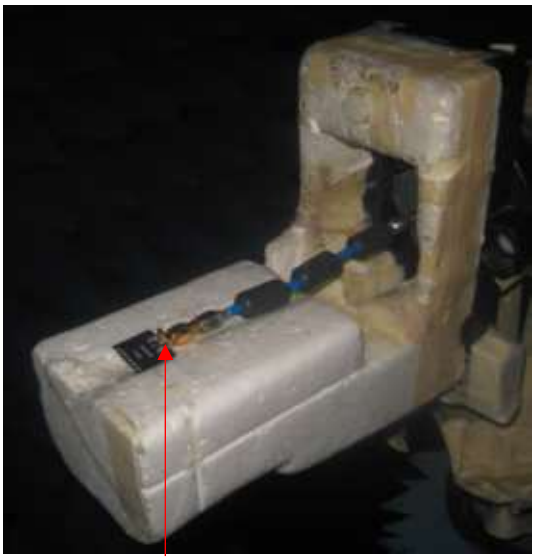
*Additional variations available with different connectors.

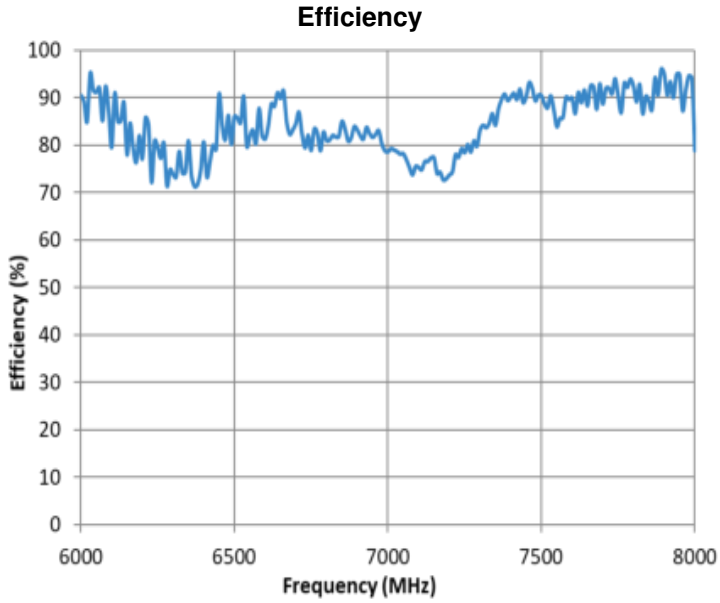
UWB PCB antenna with SMA connector Specifications
KYOCERA AVX produces a wide variety of standard and custom antennas to meet user needs.

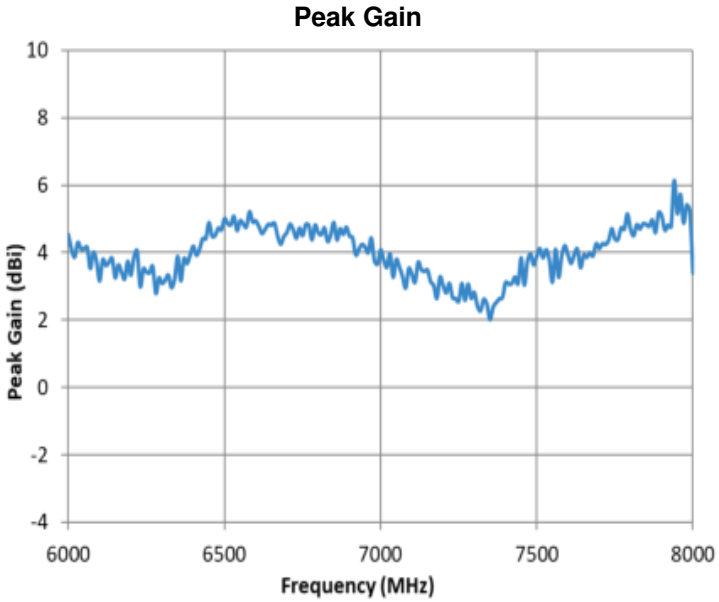
Typical VSWR, Efficiency and Peak Gain plots

Typical Performance using antenna with SMA connector in Free-space.









© 2024 KYOCERA AVX

tel +(1) 858.550.3820
email: antenna.info@kyocera-avx.com
1 Avx Blvd, Fountain Inn, SC 29644

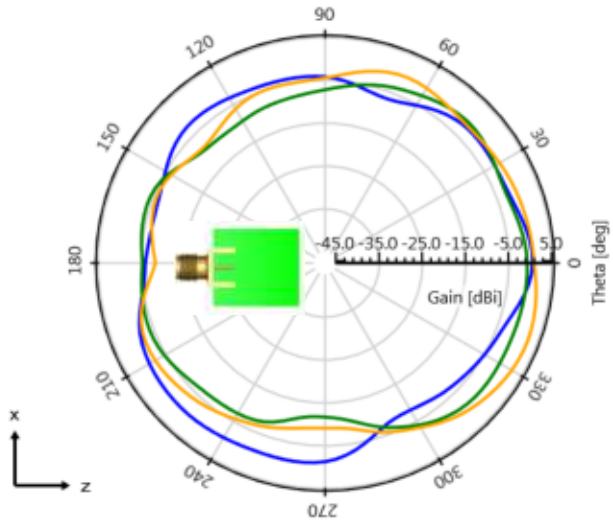
UWB PCB antenna with SMA connector Specifications
KYOCERA AVX produces a wide variety of standard and custom antennas to meet user needs.

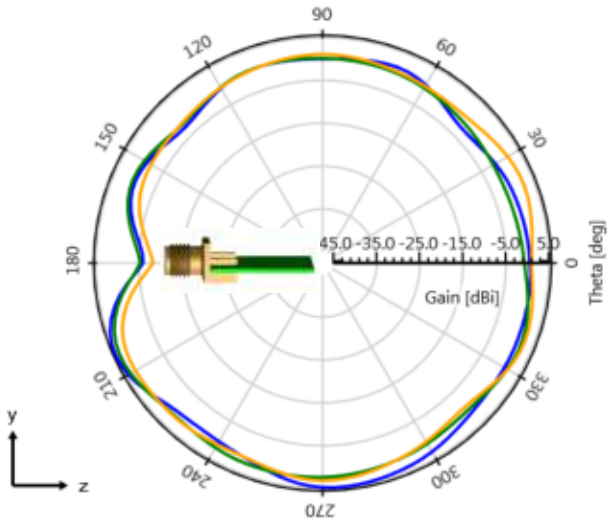
Radiation Patterns Plots

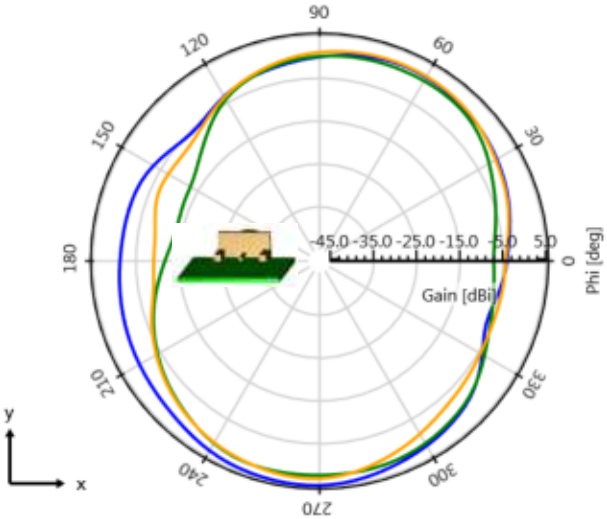
Typical Performance using antenna with SMA connector in Free-space.
Typical Performance @ 6500, 7000, 8000 MHZ











© 2024 KYOCERA AVX

tel +(1) 858.550.3820
email: antenna.info@kyocera-avx.com
1 Avx Blvd, Fountain Inn, SC 29644

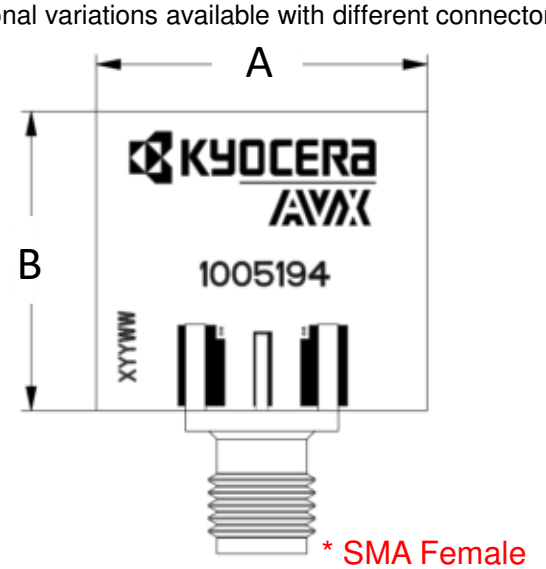
UWB PCB antenna with SMA connector Specifications
KYOCERA AVX produces a wide variety of standard and custom antennas to meet user needs.

Mechanical Dimensions

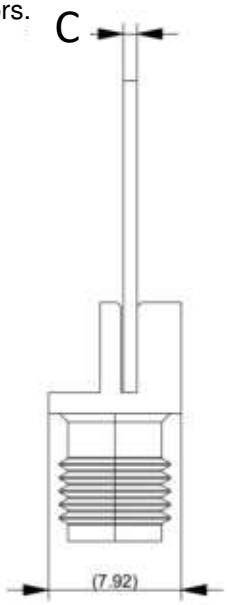
Typical antenna dimensions (mm)

Part Number	A (mm)	B (mm)	C (mm)	D (mm)	*Connector Type
1005194-A01	20.6 ± 0.2	18.6 ± 0.2	0.8	31.5	SMA Male
1005194-B02	20.6 ± 0.2	18.6 ± 0.2	0.8	27.5	SMA Female

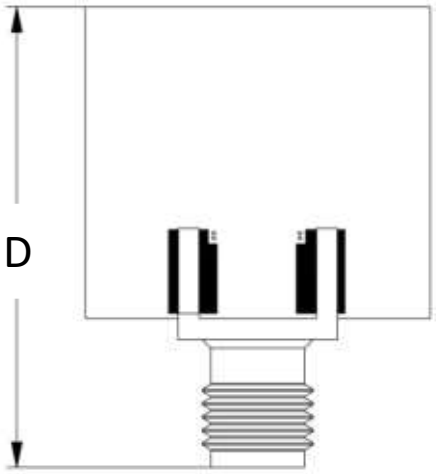
*Additional variations available with different connectors.



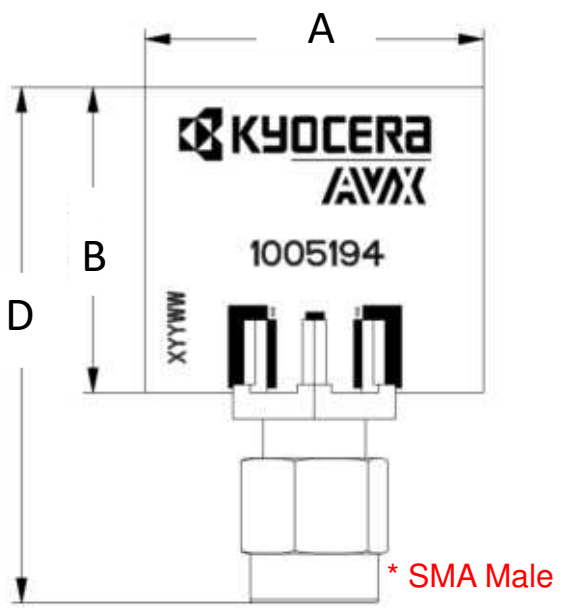
Top View

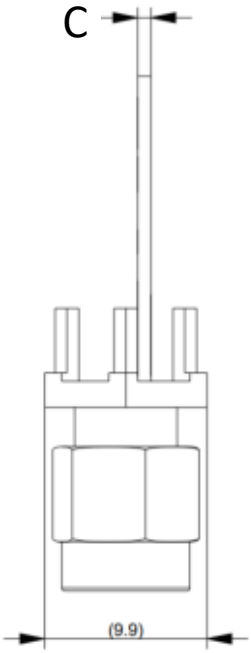


Side View



Bottom View





© 2024 KYOCERA AVX

tel +(1) 858.550.3820
email: antenna.info@kyocera-avx.com
1 Avx Blvd, Fountain Inn, SC 29644