



Part No. 1005188F0 UWB FPC Embedded Antenna

6.0 - 8.5 GHz

Supports: Smart Home, Agriculture, Tracking, Radar, Automotive, Healthcare, Digital Signage, Telematics



UWB FPC Embedded Antenna

KYOCERA AVX's 1005188F0 is a versatile off-board UWB FPC antenna optimized for applications spanning 6.0 – 8.5 GHz where off-board implementation is advantageous and necessary. 1005188F0 is ideal for systems requiring a ground plane independent antenna allowing maximum placement flexibility.

Custom cable and connector options are available. Please contact us for more information.

Electrical Specifications

Typical Performance using 100 mm cable tested on PC-ABS

Frequency	6.0 – 8.5 GHz					
Peak Gain	5.2 dBi					
Average Efficiency	82%					
VSWR Match	2.0 :1 max					
Feed Point Impedance	50 ohms unbalanced					
Polarization	Linear					
Operation Temperature	-40 to +85 °C					
Power Handling	10 Watt					

KEY BENEFITS

Stay-in-Tune

6000 - 8500 MHz

KYOCERA AVX's 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 version compliant

APPLICATIONS

Embedded design
 Radar
 Gateway, Access Point
 Healthcare M2M, Industrial devices
 Smart Grid

OBD-II

- HandheldTelematics
- Tracking

Mechanical Specifications & Ordering Part Number

Ordering Part #	1005188F0
Dimensions (mm)	15.6 x 18.6 x 0.2
Weight (grams)	0.77
Cable/ Connector (mm)	Length: 100, Diameter: 1.37, Color: Black; MHF compatible connector
Mounting	Adhesive on bottom side of antenna
Storage Temperature (°C)	-40 to +85
Packaging	PE bags

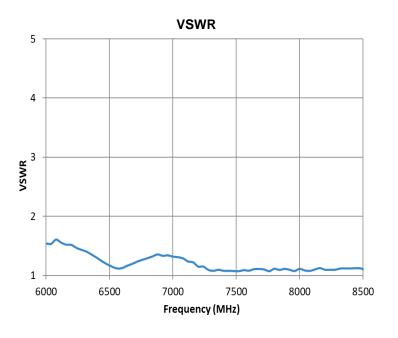
^{*}Additional variations available with different cable lengths, colors and connectors.

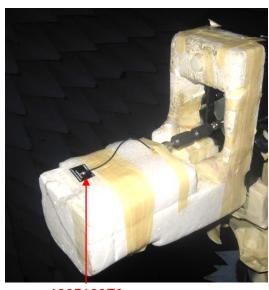


UWB FPC Embedded Antenna Specifications
KYOCERA AVX produces a wide variety of standard and custom antennas to meet user needs.

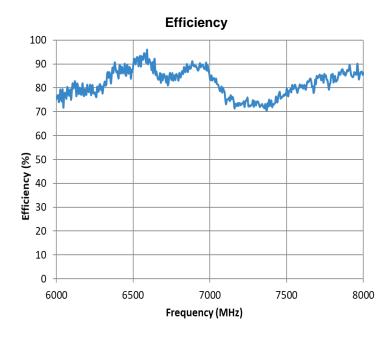
Typical VSWR, Efficiency and Peak Gain plots

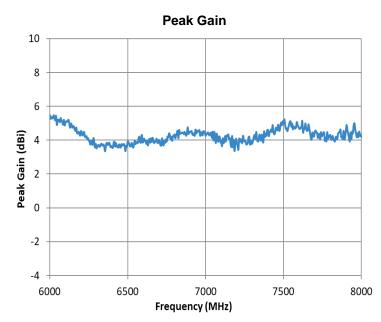
Typical Performance using 100 mm cable tested on PC-ABS





1005188F0





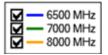


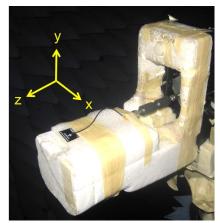


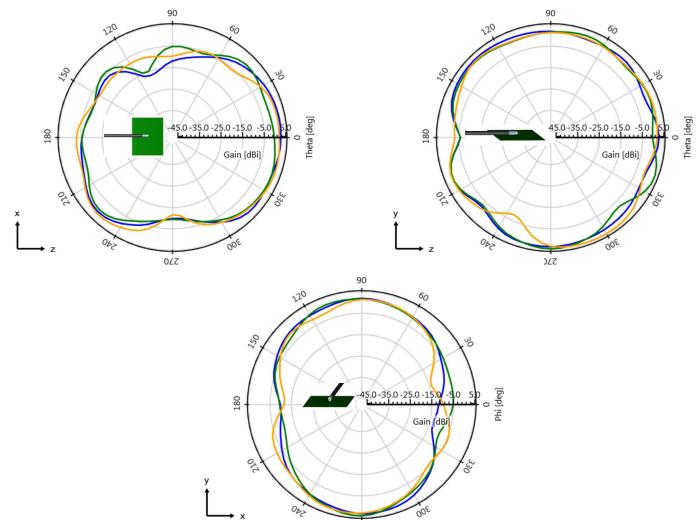
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Radiation Patterns Plots

Typical Performance using 100 mm cable tested on PC-ABS Typical Performance @ 6500, 7000, 8000 MHZ







270

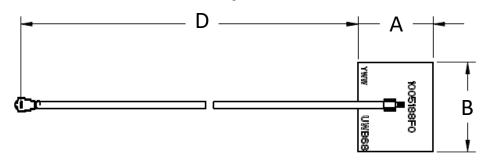
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Mechanical Dimensions (MHF Connector)

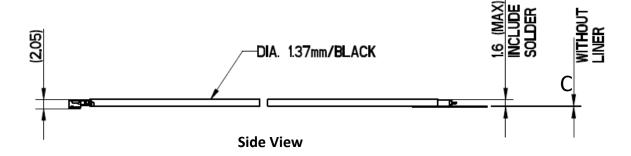
Typical antenna dimensions (mm)

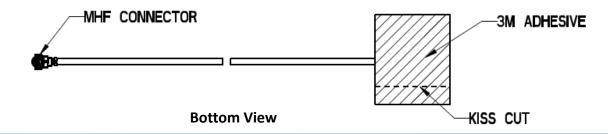
Part Number	A (mm)	B (mm)	C (mm)	*D (mm)	Connector Type
1005188F0-AA70L0025	15.6	18.6	0.2	25 ± 3.0	MHF
1005188F0-AA70L0050	15.6	18.6	0.2	50 ± 3.0	MHF
1005188F0-AA70L0075	15.6	18.6	0.2	75 ± 3.0	MHF
1005188F0-AA70L0100	15.6	18.6	0.2	100 ± 3.0	MHF
1005188F0-AA70L0150	15.6	18.6	0.2	150 ± 4.0	MHF
1005188F0-AA70L0200	15.6	18.6	0.2	200 ± 4.0	MHF

^{*}Additional variations available with different cable lengths, colors and connectors.



Top View





DATASHEET | Part No. 1005188F0

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Mechanical Dimensions (SMA Male Connector)

Typical antenna dimensions (mm)

Part Number	A (mm)	B (mm)	C (mm)	*D (mm)	Connector Type
1005188F0-AS70L0025	15.6	18.6	0.2	25 ± 3.0	SMA Male
1005188F0-AS70L0050	15.6	18.6	0.2	50 ± 3.0	SMA Male
1005188F0-AS70L0075	15.6	18.6	0.2	75 ± 3.0	SMA Male
1005188F0-AS70L0100	15.6	18.6	0.2	100 ± 3.0	SMA Male
1005188F0-AS70L0150	15.6	18.6	0.2	150 ± 4.0	SMA Male
1005188F0-AS70L0200	15.6	18.6	0.2	200 ± 4.0	SMA Male

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