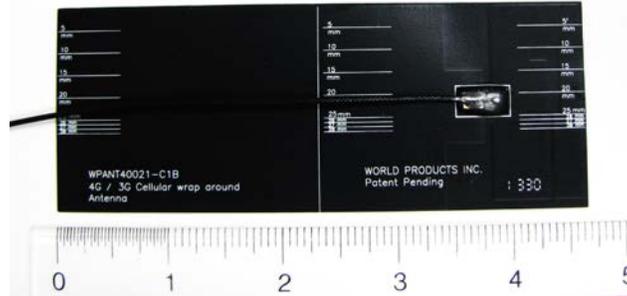


WPANT40021-C1B

4G / Cellular Embedded Antenna



Description / Application

This is a high performance embedded antenna for Machine to Machine (M2M) applications such as Electric Meters that operate in 698-960 MHz and 1710-2700 MHz 4G Bands. Standard cable is U.FL & connector is IPX/Hirose Plug. The Antenna is backed by a 3M double stick industry grade tape for easy installation.

We can assist your engineers to optimize mounting positions for these antennas in your specific application and can further assist to trouble shoot system integration issues such as TRP/TIS and FCC requirements. We specialize in developing customized Antenna solutions. Please contact sales@worldproducts.com with your specific application requirements.

Electrical Properties

Operating Frequency	698 – 960 MHz	1710 – 2700 MHz
Approximate Antenna Impedance [Ω]	50Ω	50Ω
VSWR – Typical*	< 3:1	< 3:1
Peak Gain [dBi] (Typical)*	< 3.5 dBi	< 4 dBi
Efficiency [%] (Typical)*	40 – 60 %	50 – 70 %
Polarization	Linear	Linear
Pattern	Near Omni-directional	Near Omni-directional
Accepted Power [W] (Max)	2 Watts	2 Watts

*Note: The above mentioned relevant performance metrics are recorded with the Antenna wrapped around (installed) an electric meter's surface, inside the upper plastic cap/drum. Since this is an embedded Antenna, performance may vary based on the Antenna placement within a device & also with the variance of the Cable routing.

Mechanical / Environmental Properties

Antenna Dimensions	4.66" X 1.81" X 10 mils (118.5mm X 46mm X 0.25mm)
Antenna Color	Black
Cable	8.5" long 1.32mm OD Micro Co-ax / U.FL
Connector	IPX / Hirose equivalent
Double Stick Tape	15 mils thick 3M 4920 VHB
Operating / Storage Temperature	-40°C to +90°C
UV Tolerance	100% UV Resistant
Environmental	Meets standards for UL 94V-0
Hazardous Materials	RoHS Compliant

Pictures of the Antenna

