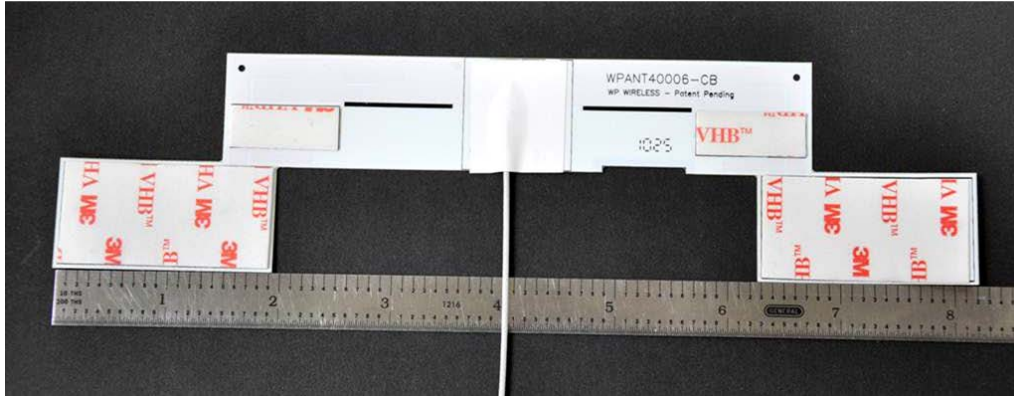


## WPANT40006-CB

### 450 MHz Wrap-Around AMI Antenna



### Description / Application

This is a wrap-around antenna for Electric Meters that operates from 450 – 470 MHz. This Antenna can work efficiently on any typical Electric Meter. Standard cable on this antenna is 1.32mm dia Micro Coax and connector is IPX / Hirose equivalent. The Antenna is backed by a 3M double stick industry grade foam tape.

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](mailto:sales@worldproducts.com) with your specific application requirements.

### Electrical Properties

<b>Operating Frequency</b>	450 – 470 MHz
<b>Approximate Antenna Impedance [Ω]</b>	50Ω
<b>VSWR – Typical*</b>	< 2:1
<b>Peak Gain [dBi] (Typical)*</b>	-2 to -1.5 dBi
<b>Efficiency [%] (Typical)*</b>	30 – 40 %
<b>Polarization</b>	Linear
<b>Pattern</b>	Near Omni-directional

\*Note: The above mentioned relevant performance metrics are recorded with the Antenna placed on a particular L&G meter. Any modifications with regards to the application/use of this antenna (as defined in this specification) may change antenna performance characteristics. Performance will also vary based on the placement positions of the Antenna in the meter.

### Mechanical / Environmental Properties

<b>Antenna Dimensions**</b>	8.2" X 2" X 10mils (208mm X 50mm X 0.25mm)
<b>Antenna Color</b>	White
<b>Cable</b>	4" long (from the edge of the PCB) 1.32mm dia Micro Co-ax
<b>Connector</b>	IPX / Hirose equivalent
<b>Operating / Storage Temperature</b>	-40°C to +90°C
<b>UV Tolerance</b>	100% UV Resistant
<b>Environmental</b>	Meets standards for UL 94V-0
<b>Hazardous Materials</b>	RoHS Compliant

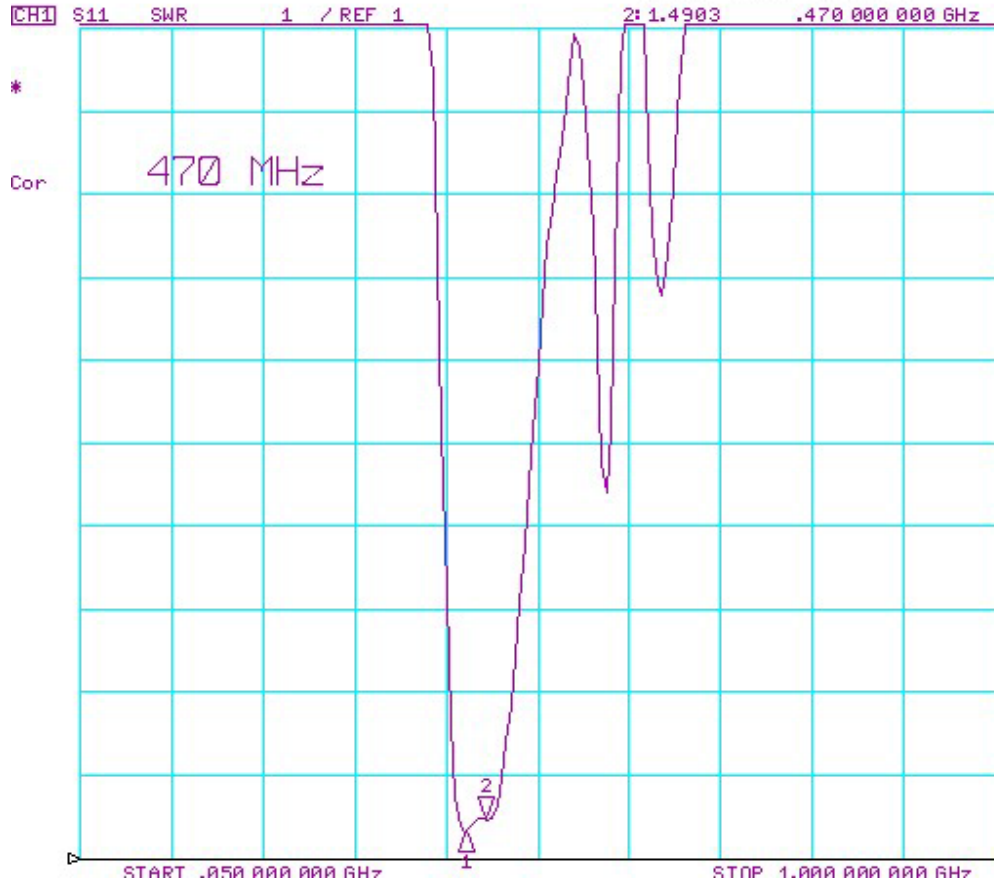
\*\* Thickness with 3M double stick tape: 1.8mm

**Pictures of the Antenna (by itself and as installed on a typical Electric Utility Meter)**





**VSWR of the Antenna**



CH1 Markers  
 1: 1.3185  
 450.000 MHz

**3D Radiation Pattern of the Antenna (as installed on a L&G meter)**

