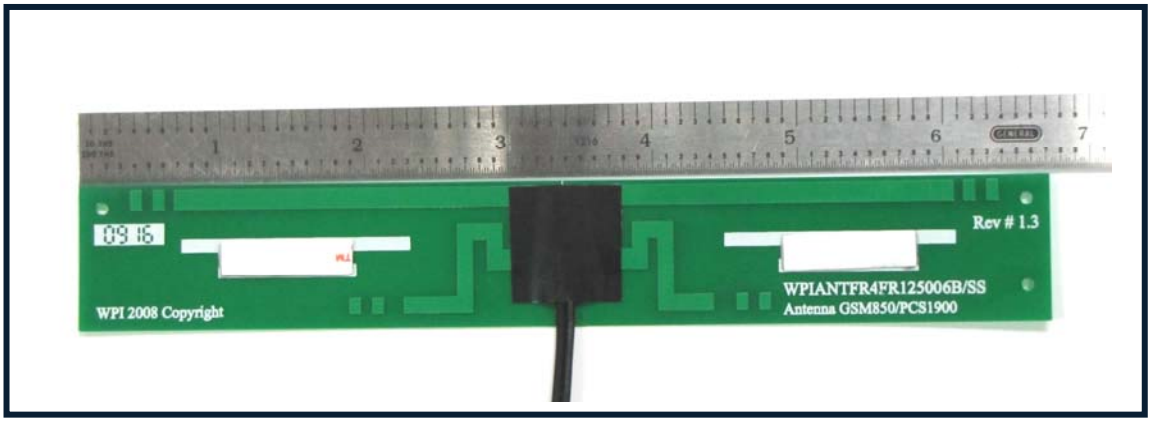
WPIANTFR4FR1250006-SSB

850 / 1900 Dual Band Cellular Wrap-Around AMI Antenna

PATENT PENDING

Picture of the Part



Application

The WPIANTFR4FR125006-SSB antenna is a high performance wrap-around antenna for Electric Meters that operates in both 824-894 MHz and 1850-1990 MHz Cellular Bands. This Antenna helped Systems pass PTCRB Certifications. Standard cable is RG178 & connector is right-angle MMCX Male Plug. The Antenna is backed by a 3M double stick industry grade foam tape.

WP Wireless 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. WP Wireless specializes in developing customized Antenna solutions. Please contact sales@wp-wireless.com with your specific application requirements.

Electrical Properties

Parameter	Antenna Performance	
Operating Frequency	824 – 894 MHz	1850 – 1990 MHz
Recommended Impedance of the customer Radio Module[Ω]	50Ω	50Ω
VSWR – Typical*	<2.5:1	<2.5:1
Peak Gain [dBi] (Typical) *	<4 dBi	<4 dBi
Efficiency [%] (Typical) *	40 - 60%	40 - 65%
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) the meter's surface, inside the upper plastic cap/drum. Any modifications with regards to the application/use of this antenna (as defined in this specification) may change antenna performance characteristics. Since this is an embedded Antenna, Performance will vary based on the Antenna placement within the meter & also with the variance of the Cable routing.

Mechanical / Environmental Properties

Item	Value
Antenna Dimensions	170mm X 25mm X 0.25mm (L X W X T)
Cable Length	270 mm long (from the edge of the PCB) RG178
Connector	Right angle MMCX Male
Antenna Color	Green
Operating / Storage Temperature	-40°C to +90°C
UV Tolerance	UV Resistant
Environmental	Meets standards for UL 94V-0
Hazardous Materials	RoHS compliant

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






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