

915MHz ISM Band PCB Antenna

Part Number: **PIOV.009.NRA.A**

Features and Benefits

Balanced antenna with independent ground

Compact 60mm by 15mm size

43% antenna efficiency for 915MHz ISM band antenna

Application

- Smart meter
- Industrial applications (Machine to machine (M2M) communication, etc.)
- Smart City (Lighting, Parking, etc.)
- Medical (Telemedicine and telehealth device, etc.)
- Automotive applications



Smart meter

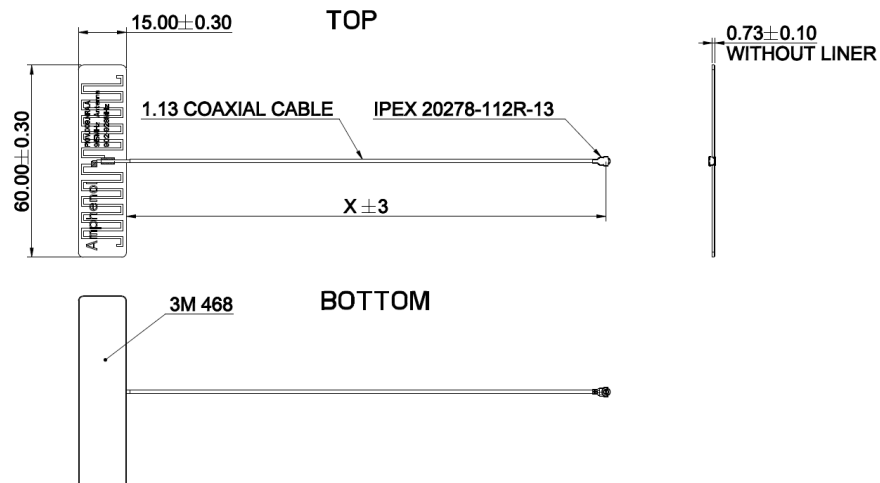


Industrial applications



Smart City

Product Drawing



Specifications

Band (MHz)	902	928
Return loss (dB)	-5.7	-4.9
Efficiency	43.4%	43.2%
Peak gain (dBi)	-0.9	-0.6
VSWR	≤3.6	
Impedance	50 ohms	
Polarization	Linear	
Radiation Pattern	Omni-directional	
Test environment	In free space	
Power handled	5W	
Dimensions	60*15*0.8mm	
Operation temperature	-40°C ~ +85°C	
Storage temperature	-40°C ~ +85°C	
Weight	1.09 g	
Connector	IPEX MHF	
Cable standard	1.13 coaxial cable, length X (Std.: 150mm)	
RoHS compliant	Yes	
Adhesive	3M 468	

Signal attenuation along cable effect on antenna efficiency

Part Number	Coaxial cable length (mm)	Frequency (MHz)	Peak gain (dBi)	Total efficiency
PIOV.009.NRA.A-050	50	902	-0.8	45%
		928	-0.4	45%
PIOV.009.NRA.A-100	100	902	-0.8	44%
		928	-0.5	44%
PIOV.009.NRA.A-150	150	902	-0.9	43%
		928	-0.6	43%
PIOV.009.NRA.A-200	200	902	-1.0	43%
		928	-0.7	43%