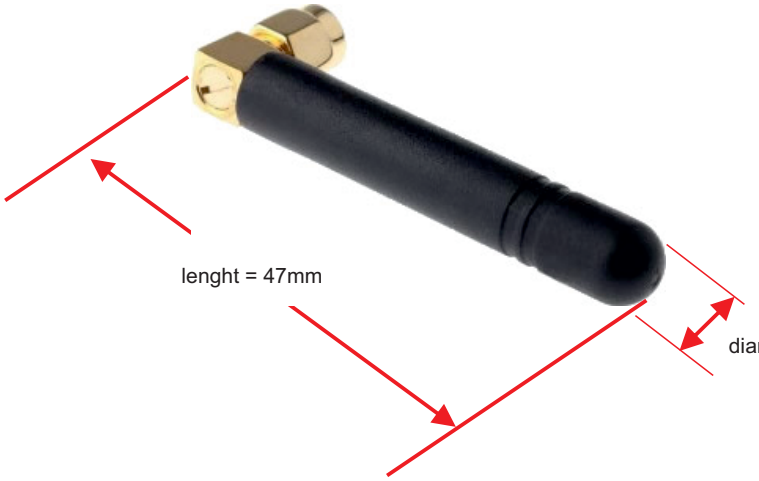
Radiocontrolli®
WIRELESS MODULES

868MHz Antenna

RC-ANT-868V-SMA is an antenna that can be used for 868MHz wireless data transmission / meter communication systems.
Good VSWR performance, compact dimensions, clever structure, easy installation, stable performance, with good anti-vibration and aging capacity.
Available also with the connector UFL-SMA

Mechanical Dimensions:



lenght cable = 10cm

What is VSWR?

VSWR (Voltage Standing Wave Ratio) is a metric commonly used with antenna systems for ham or shortwave radio communication. VSWR is normally defined as a ratio with a 1:1 VSWR, indicating that there is an exact or perfect match between all antenna system elements.The higher the first number, the worse thematch, and the more inefficient the system. Since a perfect match cannotever be obtained, some benchmark for performance needs to be set.
VSWR is a measure of the amount of signal that is reflected back from a connector.
It is a vector quantity in that it has both amplitude and a phase component.
This is important when considering the impact of multiple connectors in a transmission line. Mismatched impedances cause the reflections. If the cable being used has a characteristic impedance of 50 ohms, then the connector must also maintain 50 ohm impedance. The transition from the cable to connector transmission line sizes and captivation of insulators and contacts are the main causes of mismatches within the connector.

Technical Characteristics

Characteristics	Value
Frequency Range	868MHz ± 5MHz
VSWR	<= 2
Input Impedence	50 Ohm
Gain	2.15 dBi
Polarization	Vertical
Lenght	47mm
Connector	SMA