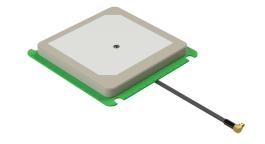


Part #: 189-00069-01



The MPA-716-868 passive antenna is an optimized high performance LoRa and Sigfox patch antenna. This antenna is perfect for projects with a smaller scope and budget. This antenna is designed for embedded applications such as automotive ISM applications, and Short range 868 MHz mesh networks. This ceramic patch has an excellent directional hemispherical radiation pattern antenna. The MPA-716-868 antenna has an interface connector (through pin solution), with RG178 and MMCX male right angle connector.



Electrical Specifications

Parameter	Specification
Frequency Range	865 MHz - 867MHz
Center Frequency (without PCB)	865MHz ± 3MHz
Bandwidth (without PCB)	≥ 14 MHz
Return Loss (without PCB)	-10 dB
Center Frequency (with PCB)	868MHz ± 3MHz
Bandwidth (with PCB)	≥ 16 MHz
Return Loss (with PCB)	-10 dB
VSWR	≤ 1.5
Gain at Zenith	+3.0 dBi typ.
Gain at 10° Elevation	-5.0 dBi typ.
Axial Ratio	≤ 5 dB
Polarization	RHCP
Impedance	50 Ω

Mechanical Specifications

Parameter	Specification
Antenna Dimensions	82 x 80 x 6.6 mm
Operating Temperature	-40 °C to +105 °C
RF connector	MMCX(MALE)
Cable Type	RG178
Cable length	100 mm

Features

- 868MHz ISM Band
- High antenna performance
- Low profile
- · Adhesive mounting
- Pin connector
- Advanced Ceramic Material

Applications

- · Remote mesh networks
- Smart metering
- IOT
- Public Safety
- Smart sensors
- Supply chain & logistics



