



Part Number : [2081420001](#)

Series Number : [208142](#)

Product Category : [Antennas](#)

Product Description : [ISM 868/915MHz Ceramic Antenna, Low-Profile, SMT](#)

Status : [Active](#)

Documents & Resources

Drawings

[Drawing 2081420001_sd.pdf](#)

[Packaging Design Drawing 2081420001-PK.pdf](#)

3D Models and Design Files

[3D Model 2081420001_stp.zip](#)

[HFSS Model 2081420001_HFSS.zip](#)


Specifications

[Application Specification 2081420001-AS.pdf](#)

[Product Specification 2081420001-PS.pdf](#)

Product Environment Compliance

Compliance

GADSL/IMDS	Not Relevant
China RoHS	
EU ELV	Not Relevant
Low-Halogen Status	Low-Halogen per IEC 61249-2-21
REACH SVHC	Not Contained per D(2024)4144-DC (27 June 2024)
EU RoHS	Compliant per EU 2015/863

[Multiple Part Product Compliance Statements](#)

- Eu RoHS
- REACH SVHC
- Low-Halogen

[Multiple Part Industry Compliance Documents](#)

- IPC 1752A Class C
- IPC 1752A Class D
- Molex Product Compliance Declaration

- IEC-62474
- chemSHERPA (xml)

EU RoHS Certificate of Compliance

Part Details

General

Status	Active
Category	Antennas
Series	208142
Description	ISM 868/915MHz Ceramic Antenna, Low-Profile, SMT
Component Type	Surface Mount Device Antenna
Function	Signal
Product Family	Industrial, Scientific and Medical (ISM) Antennas
Product Name	ISM 868/915MHz Ceramic Antenna
Protocol	LoRa, Neul, SigFox, Z-Wave, Zigbee
Type	Internal, ISM Antenna, LPWAN
UPC	191130138265

Electrical

Band#1 F_End (MHz)	870
Band#1 F_Start (MHz)	868
Band#2 F_End (MHz)	928
Band#2 F_Start (MHz)	902
Electrical Connectivity	SMD
Peak Gain (dBi)	1.5 @ 868 MHz, 1.8 @ 902 MHz
Return Loss - S11 (dB)	< -10, < -5
Total Efficiency	65% @ 902 MHz, 70% @ 868 MHz

Physical

Cable Length	N/A
Length	9.00mm
Mounting Style	Surface Mount
Net Weight	0.067/g

Packaging Type	Embossed Tape on Reel
Polarization	Linear
Radiation Pattern	Omnidirectional
Thickness	0.63mm
Width	3.00mm