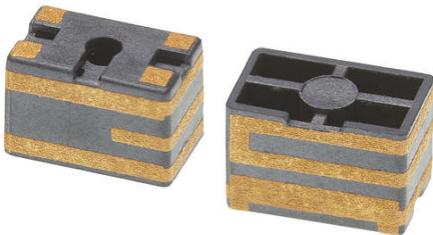




Part Number : [1461750001](#)
Product Description : 2.4GHz / 5GHz SMT MID Chip
Antenna, 5.00mm by 3.00mm
Series Number : 146175
Status : Active
Product Category : Antennas



Documents & Resources

Drawings

[1461750001_sd.pdf](#)

3D Models and Design Files

[STEP AP242](#)

[SOLIDWORKS](#)

[Creo](#)

[Symbol and Footprint \(Multi-Format\)](#)

Specifications

[AS-146175-001-001.pdf](#)

[PK-146175-001-001.pdf](#)

[PS-146175-001-001.pdf](#)

Product Environment Compliance

Compliance

GADSL/IMDS	Compliant with Exemption 34; 33
China RoHS	 per SJ/T 11365-2006
EU ELV	Not Relevant
Low-Halogen Status	Low-Halogen per IEC 61249-2-21
REACH SVHC	Not Contained per D(2024)7663-DC (21 Jan 2025)
EU RoHS	Compliant per EU 2015/863

[Compliance Statements](#)

- EU RoHS

- REACH SVHC
- Low-Halogen

Industry Documents

- IPC 1752A Class C
- IPC 1752A Class D
- Molex Product Compliance Declaration
- IEC-62474
- chemSHERPA (xml)

Substances of Interest

- PFAS

EU RoHS Certificate of Compliance

Additional Product Compliance Information

Part Details

General

Status	Active
Category	Antennas
Series	146175
Description	2.4GHz / 5GHz SMT MID Chip Antenna, 5.00mm by 3.00mm
Component Type	Surface Mount Device Antenna
Function	Signal
Product Name	2.4/5GHz SMT OnGround MID Chip
Protocol	BLE, BT, Thread, Wi-Fi, Wireless Hart, Zigbee
Type	Internal, Wi-Fi Antenna
UPC	889056512084

Electrical

Band#1 F_End (MHz)	2483.5
Band#1 F_Start (MHz)	2400
Band#2 F_End (MHz)	5850
Band#2 F_Start (MHz)	5150
Electrical Connectivity	SMD
Peak Gain (dBi)	3.0 @ 2.4 GHz, 4.2 @ 5 GHz
Return Loss - S11 (dB)	< -6
Total Efficiency	>70%

Physical

Cable Length	N/A
Length	5.00mm
Mounting Style	Surface Mount
Net Weight	0.058/g
Packaging Type	Embossed Tape on Reel
Polarization	Linear
Radiation Pattern	Omnidirectional
Thickness	4.00mm
Width	3.00mm

This document was generated on Sep 17, 2025