



Part Number : [2169420001](#)

Series Number : 216942

Product Category : Antennas

Product Description : Wi-Fi GNSS Chip Combo
Antenna, Surface Mount, 1.60mm by 3.20mm

Status : Active

Documents & Resources

Drawings

[Drawing 2169420001_sd.pdf](#)

[Packaging Design Drawing 2169420001-001.pdf](#)


Specifications

[Application Specification 2169420001-000.pdf](#)

[Product Specification 2169420001-001.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(2021)4569-DC (8 July 2021)
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	216942
Description	Wi-Fi GNSS Chip Combo Antenna, Surface Mount, 1.60mm by 3.20mm
Component Type	External Antenna
Product Family	Internet of Things (IoT) Antennas: Wi-Fi, Bluetooth, Zigbee
Product Name	Wi-Fi GNSS Chip Combo Antenna
Protocol	BLE, BT, Galileo, Wi-Fi
Type	Combo Wi-Fi/GNSS Antenna
UPC	195842206410

Electrical

Band#1 F_End (MHz)	1563.14
Band#1 F_Start (MHz)	1561
Band#2 F_End (MHz)	1576.44
Band#2 F_Start (MHz)	1574.39
Band#3 F_End (MHz)	1606
Band#3 F_Start (MHz)	1598
Band#4 F_End (MHz)	2500
Band#4 F_Start (MHz)	2400
Band#5 F_End (MHz)	5850
Band#5 F_Start (MHz)	5150
Peak Gain (dBi)	0.4 @ 1561 MHz, 0.8 @ 1574 MHz, 0.8 @ 1598 MHz, 1.3 @ 2.4 GHz, 3.0 @ 5 GHz
Return Loss - S11 (dB)	< -10, < -5, < -6, < -7
Total Efficiency	>40% @ 1561 MHz, >45% @ 1574 MHz, >45% @ 1598 MHz, >50% @ 2.4 GHz, >65% @ 5 GHz

Physical

Length	3.20mm
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Mounting Style	Surface Mount
Net Weight	0.020/g
Packaging Type	Reel
Polarization	Linear
Radiation Pattern	Omnidirectional
Thickness	1.20mm
Width	1.60mm

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