



Part Number : 2112973000

Product Description : 2-in-1 4G/GPS and BD External Antenna, 77.00mm Diameter, 3.0m Cables with Fakra Connectors

Series Number : 211297

Status : Active

Product Category : Antennas

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## Documents & Resources

### Drawings

Drawing 2112973000\_sd.pdf

Packaging Design Drawing 2112973000-001.pdf

### 3D Models and Design Files

3D Model 2112973000\_stp.zip

### Specifications


Application Specification 2112973000-000.pdf

Product Specification 2112973000-001.pdf

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## Product Environment Compliance

### Compliance

|                    |  |
|--------------------|--|
| GADSL/IMDS         | Not Relevant   |
| China RoHS         |   |
| EU ELV             | Not Relevant   |
| Low-Halogen Status | Not Low-Halogen per IEC 61249-2-21   |
| REACH SVHC         | Contains Lead; Melamine; C,C'-azodi(formamide); 2-Methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one per D(2024)4144-DC (27 June 2024) |
| EU RoHS            | Compliant with Exemption 6(c) 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

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## Part Details

### General

|                |  |
|----------------|--|
| Status         | Active   |
| Category       | Antennas   |
| Series         | 211297   |
| Description    | 2-in-1 4G/GPS and BD External Antenna, 77.00mm Diameter, 3.0m Cables with Fakra Connectors |
| Comments       | 4G: VSWR 2.5 = Return loss < -8dB;<br>GPS: VSWR 2 = Return loss < -10dB                    |
| Component Type | External Antenna   |
| Function       | Signal   |
| Product Family | Combo Antennas   |
| Product Name   | 2-in-1 External Antenna  |
| Protocol       | Cellular, GPS  |
| Type           | External   |
| UPC            | 191130540969   |

### Electrical

|                         |  |
|-------------------------|--|
| Band#1 F_End (MHz)      | 960  |
| Band#1 F_Start (MHz)    | 824  |
| Band#2 F_End (MHz)      | 1575.42  |
| Band#2 F_Start (MHz)    | 1561.098   |
| Band#3 F_End (MHz)      | 2690   |
| Band#3 F_Start (MHz)    | 1710   |
| Electrical Connectivity | Cable  |
| Peak Gain (dBi)         | -0.8 @ 824 MHz, -2.1 @ 1561 MHz, -2.1 @ 1575 MHz, 0.4 @ 1710 MHz |
| Return Loss - S11 (dB)  | < -8, < -10 (see comments)                                       |

|                  |  |
|------------------|--|
| Total Efficiency | 22.1% @ 1575 MHz, 22.3% @ 1561 MHz, 26.8% @1710 MHz, 33.6% @ 824 MHz |
|------------------|--|

**Physical**

|                   |   |
|-------------------|---|
| Cable Length      | 3.0m  |
| Mounting Style    | Adhesive                                      |
| Net Weight        | 120.680/g                                     |
| Outer Diameter    | 77.00mm                                       |
| Packaging Type    | Partitioned Carton                            |
| Polarization      | Linear, RHCP                                  |
| Radiation Pattern | Bi-Directional (GPS),<br>Omnidirectional (4G) |
| Thickness         | 15.00mm                                       |
| Width             | N/A   |