CHIP MULTILAYER ANTENNA FOR GPS/2.4 GHz ISM Band

Product P/N: ANT016008LCD1575MA1

[MECHANICAL DIMENSIONS]

[PARAMETER]  [UNIT]
Center Frequency (F_{GPS}, F_{BT})  F_{GPS} 1575,  F_{BT} 2442  MHz
Band Width (BW) (F_{GPS}, F_{BT})  F_{GPS} +/- 1,  F_{BT} +/- 42  MHz
VSWR at BW  4 (Max.)
Polarization  Linear
Impedance  50  ohm
PCB size  120 x 65 x 1.0  mm

* This is typical antenna performance with the standard PCB.

Operating temperature  -40  +85  °C
Storage temperature  -40  +85  °C

All specifications are subject to change without notice and are not guaranteed.
[RECOMMENDED PCB PATTERN]

Electrode
- Front side

Ft GPS : Frequency tuning for GPS
50 ohm feed line

- Back side

Mt : Matching tuning

Solder Resist

For 0603 size
For 1005 size
For Chip antenna

Recommend aperture size of metal mask for solder printing

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[EFFICIENCY AND VSWR]

Note: Tested antenna has been soldered. Evaluation board size is 120x65x1 mm

[RADIATION PATTERN]

Measurement Method

Note: Tested antenna has been soldered. Evaluation board size is 120x65x1 mm

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[RADIATION PATTERN - GPS band -]

RHCP

1.575 GHz

Average[dBic]: -6.3
Maximum[dBic]: -2.9
Minimum[dBic]: -12.2

Frequency GHz: 1.575

Average[dBic]: -6.5
Maximum[dBic]: -3.7
Minimum[dBic]: -12.1

Note: Tested antenna has been soldered. Evaluation board size is 120x65x1 mm
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Note: Tested antenna has been soldered. Evaluation board size is 120x65x1 mm
ENVIRONMENT INFORMATION

1. RoHS STATEMENT

ROHS Compliance

2. Non-Use of Halogen (Bromine and Chlorine)

The product does not include Halogens and their compounds based on the following definition.

- Bromine(Br) ≤ 900ppm*
- Chlorine(Cl) ≤ 900ppm*
- (Bromine(Br)+Chlorine(Cl) ≤ 1500ppm*)
  (*Certain homogeneous materials)
Mouser Electronics

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**TDK:**

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