4G/LTE Ceramic Chip Antenna Evaluation Board

ACAR4008-S698-EVB

120.0 x 45.0 mm

Description

ACAR4008-S698-EVB Evaluation boards are designed to provide a means to facilitate engineering evaluation of the chip antenna: ACAR4008-S698-T. With a typical operating frequency between 700 and 2700 MHz, the chip can be used for 2G/3G/GSM/4G/LTE applications.

To evaluate the performance of antenna, calibrate the Vector Network analyzer (VNA) for the testing frequency band and connect the evaluation board to the calibrated port using the given SMA connector on the board.

Evaluation Board with Matching Circuits

Evaluation Board dimension: 120 x 45 mm

Unit: mm
Chip Antenna Layout

Tolerance: ±0.1 mm, unless otherwise specified.
t, w: Unique dimensioning according to your PCB

Unit: mm

Copper layer
Top layer

Solder area
Solder masker
Top layer
Matching Network on EVB

Antenna matching network is designed using a combination of inductor and resistor near the input terminal.

**Note:**

1. White space around the chip antenna in “Chip Antenna Layout” represents the ground clearance area.
2. Desired clearance area: 45 x 15 mm
3. Width of the 50 Ω line is designed in accordance with the PCB thickness and material considered.
4. Matching network (Pi - network) provided is in accordance with the EVB layout and matching will differ in the actual customer PCB depending on the layout.
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