

# Evaluation Board - 433 / 450~470 MHz Chip Antenna

ACR2005I4-EVB

Request Samples



Check Inventory



80 x 40 x 1 mm

RoHS/RoHS II Compliant

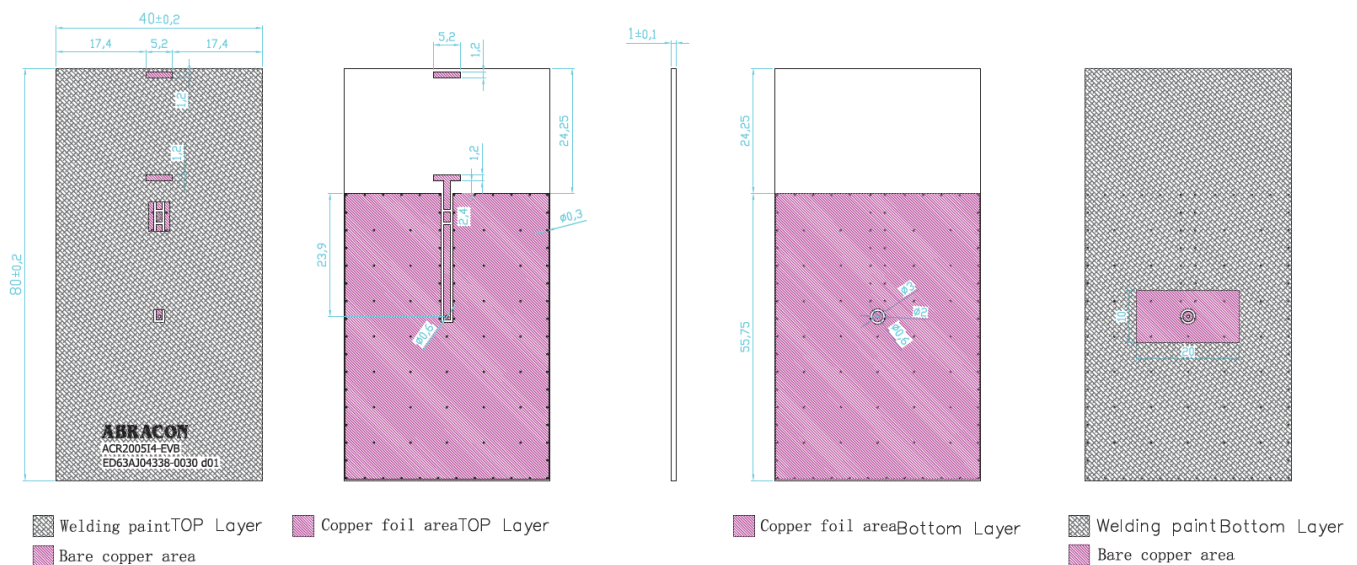
MSL Level = N/A

## Description

ACR2005I4-EVB Evaluation boards are designed to provide a means to facilitate engineering evaluation of the chip antenna: ACR2005I4. With a typical operating frequency range of 433 / 450 ~ 470 MHz, the chip can be used for LoRA/SigFox/ISM 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 and Dimensions



Note: Evaluation Board dimension: 80 x 40 x 1 mm

Unit: mm

# Evaluation Board - 433 / 450~470 MHz Chip Antenna

ACR200514-EVB

Request Samples



Check Inventory

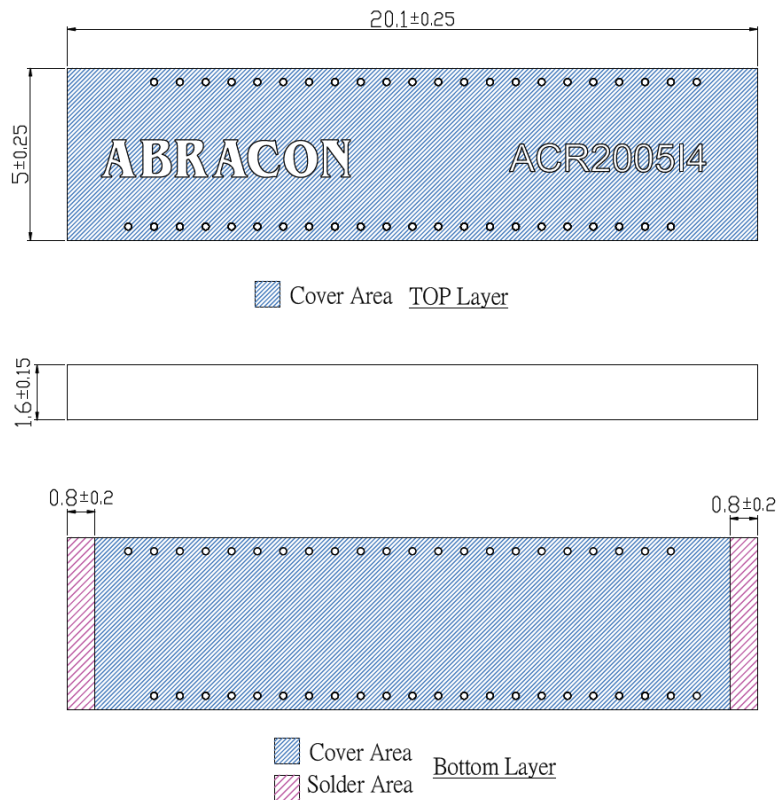


80 x 40 x 1 mm

RoHS/RoHS II Compliant

MSL Level = N/A

## Chip Antenna Dimension



Unit: mm

# Evaluation Board - 433 / 450~470 MHz Chip Antenna

ACR2005I4-EVB

Request Samples



Check Inventory

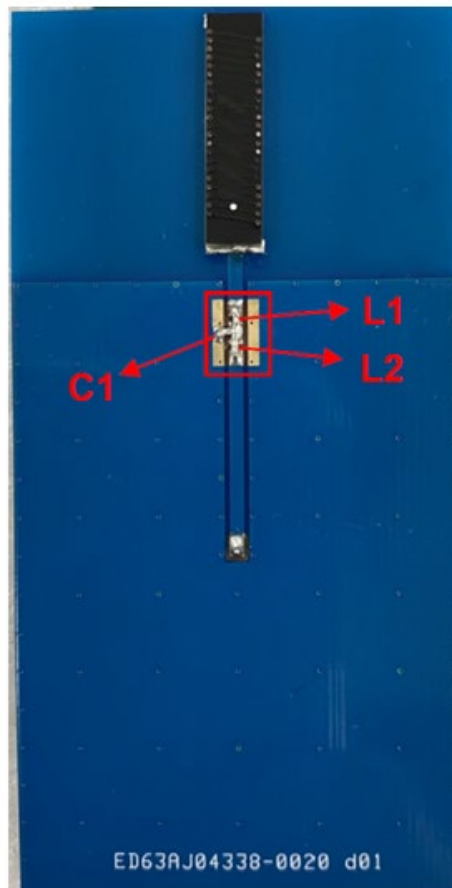


80 x 40 x 1 mm

RoHS/RoHS II Compliant

MSL Level = N/A

## Matching Network on EVB



Component	Specification	
	433 MHz	450 ~ 490 MHz
L1	68 nH	47 nH
L2	1.8 nH	2.7 nH
C1	8.2 pF	6.8 nH

### Note:

1. Desired metal/ground clearance area: 40 x 24.25 mm
2. Width of the 50  $\Omega$  line is designed in accordance with the PCB thickness and material considered
3. Matching network provided is in accordance with the EVB layout and matching will differ in the actual customer PCB depending on the layout

**ATTENTION:** Abracon LLC's products are COTS – Commercial-Off-The-Shelf products; suitable for Commercial, Industrial and, where designated, Automotive Applications. Abracon's products are not specifically designed for Military, Aviation, Aerospace, Life-dependent Medical applications or any application requiring high reliability where component failure could result in loss of life and/or property. For applications requiring high reliability and/or presenting an extreme operating environment, written consent and authorization from Abracon LLC is required. Please contact Abracon LLC for more information.



5101 Hidden Creek Ln Spicewood TX 78669  
Phone: 512-371-6159 | Fax: 512-351-8858  
For terms and conditions of sales, please visit:  
[www.abracon.com](http://www.abracon.com)

REVISED: 09-13-21

ABRACON IS  
ISO9001-2015  
CERTIFIED

# Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

[ABRACON:](#)

[ACR2005I4-EVB](#)