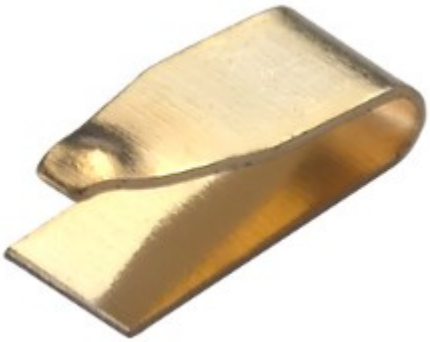
SPECIFICATION

Part No. : **CC.001**

Description : SMT C-Clip Connector with 1mm Working Height

Features : C-Clip Connector
Board-to-Antenna Application
SMT Footprint 3.2*1.7 mm
Nominal Working Height 1mm
RoHS Compliant



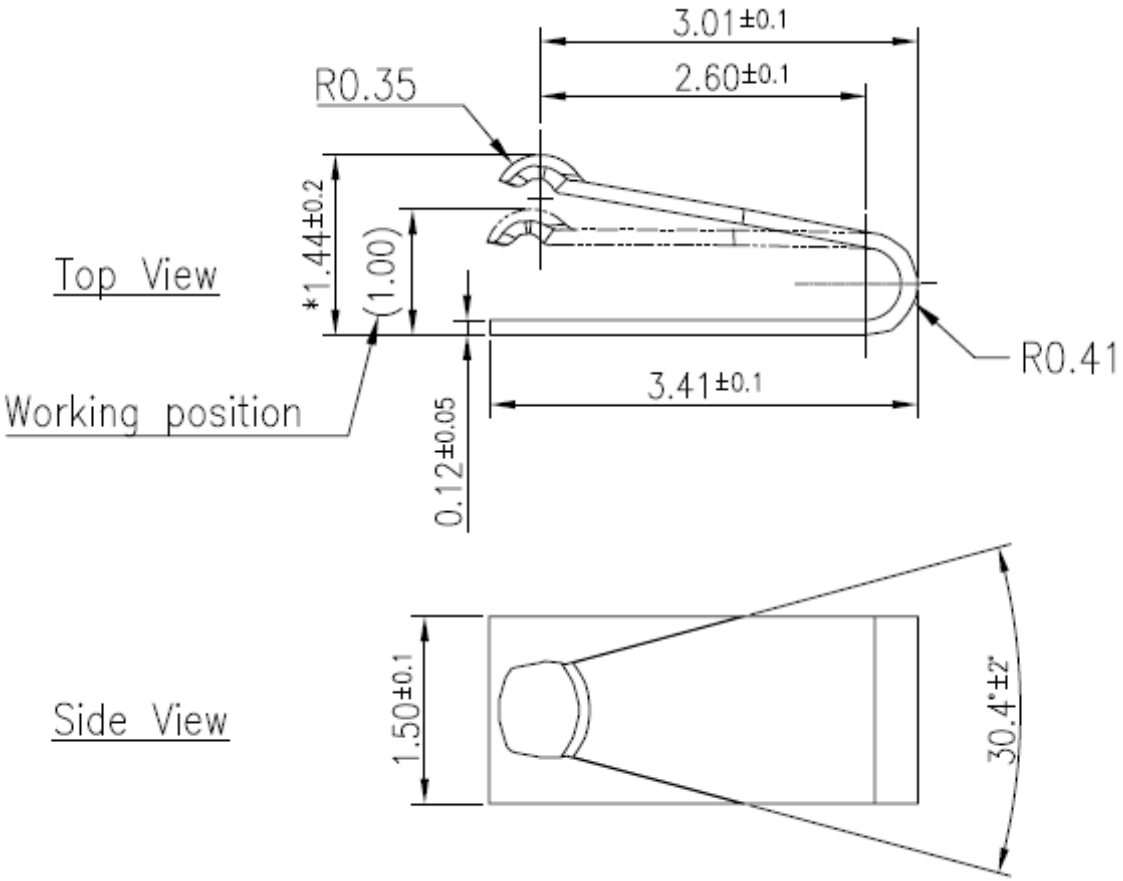
1. Introduction

The Taoglas CC.001 C-Clip connector is designed to be SMT mounted on a PCB as a contact bridge to antenna pads. This allows the PCB or Flex PCB antenna to be connected to the system via the C-Clip, eliminating the need for cables and coaxial RF connectors. The spring contact provides for a positive electrical connection. Working height of the CC.001 is 1.0mm. The recommended footprint dimension is 3.2*1.7mm.

2. Specification

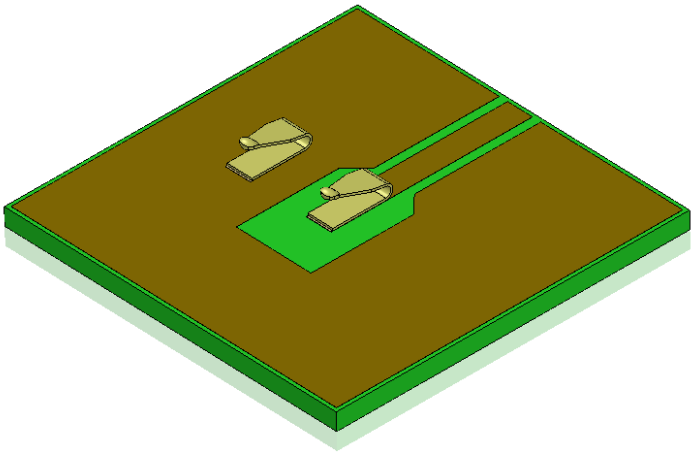
MECHANICAL	
Dimension	3.41*1.5*1.44mm
Material	SUS 301 EH
Finished	100% Au plated over Ni
Working Height	1mm
ENVIROMENTAL	
Salt Spray [ISO 9227:2012]	48 hours
Storage Temperature	-40°C to 120°C
Operating Temperature	-20°C to 70°C

3. Drawing

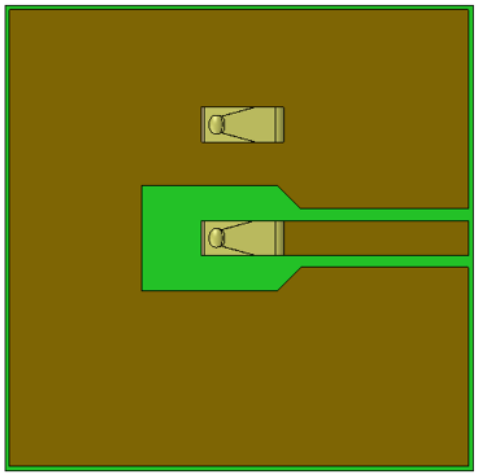

3.01±0.1
2.60±0.1
R0.35
*1.44±0.2
(1.00)
Top View
R0.41
3.41±0.1
Working position
0.12±0.05
1.50±0.1
Side View
30.4°±2°

4. Typical Layout

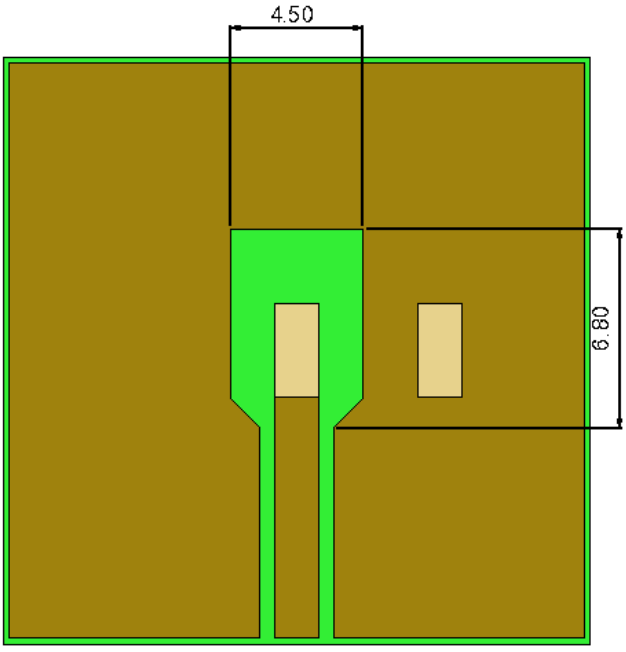
Typical Implementation:



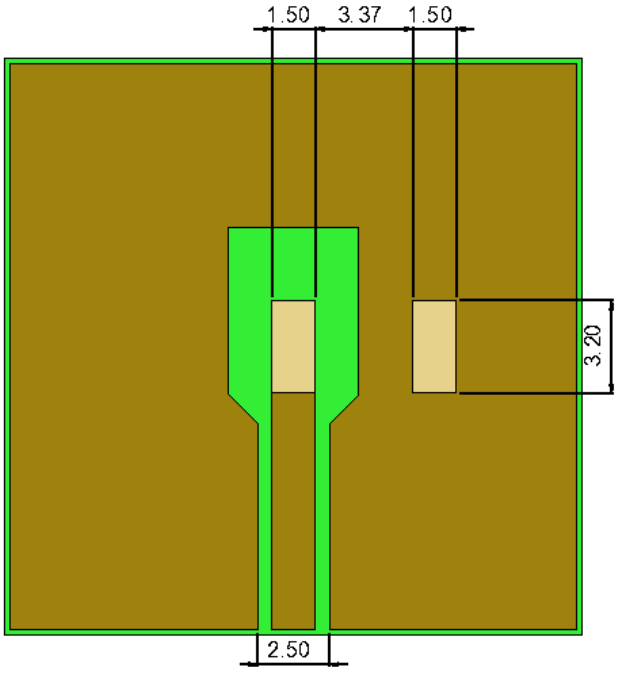
Recommended Clip Positioning:



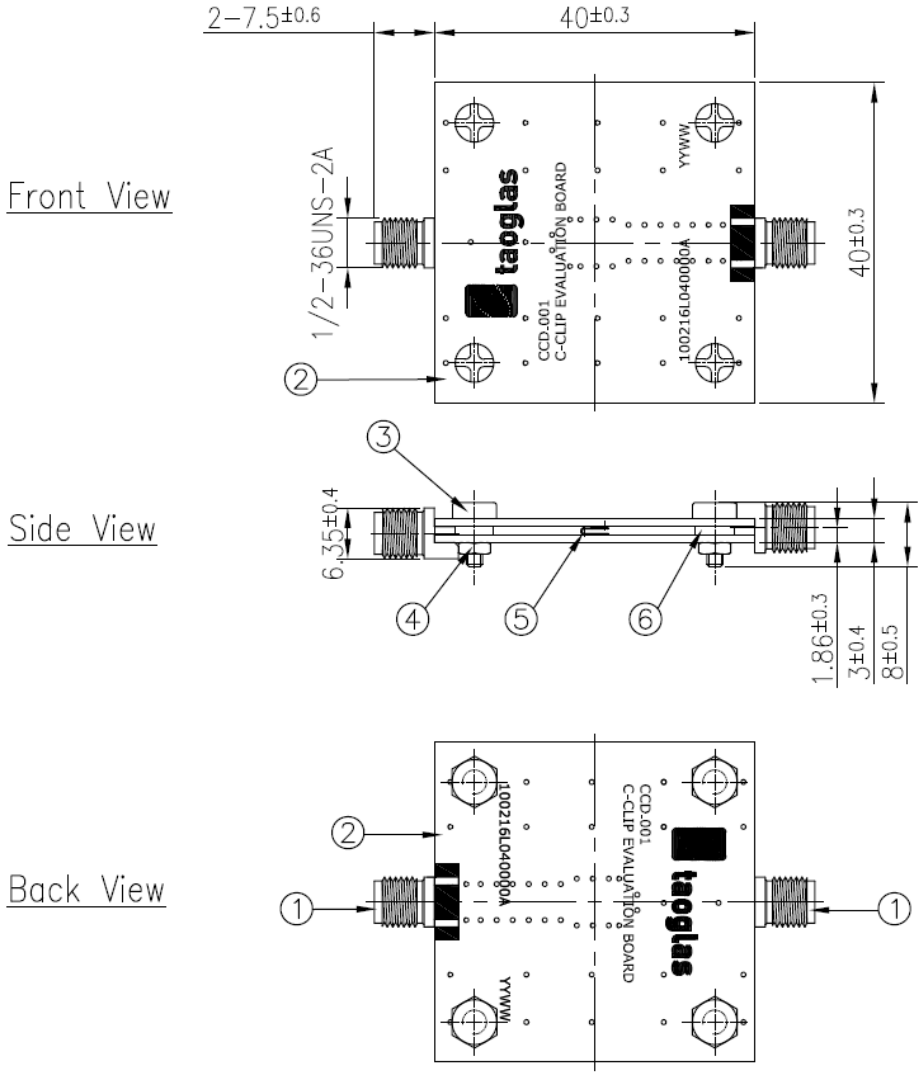
Recommended Clearance Layout:



Recommended PCB Layout:



5. Evaluation Board (CCD.001)



	Name	Material	Finish	QTY
1	SMA(F)ST	Brass	Au Plated	2
2	PCB (40x40x1mm)	Composite 1.0t	Black	2
3	Screw (M3x6L)	Nylon	Nature	4
4	Nut (M3x2.5t)	Nylon	Nature	4
5	C−Clip	Stainless Steel	Au Plated	2
6	Washer(ID∅3.1xOD∅4.8x1mm)	Nylon	Nature	4

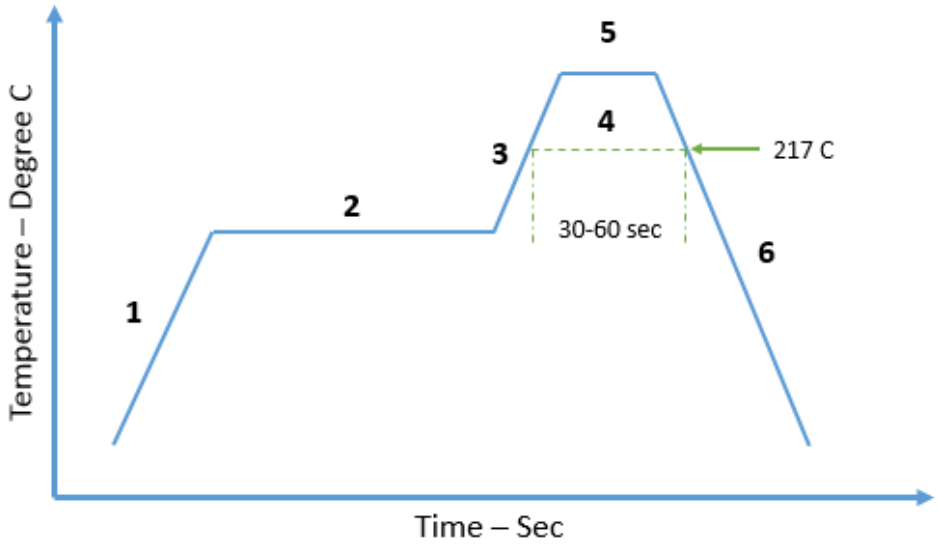
Note: The evaluation board can be used to confirm and test performance of the CC.001 clip or the individual board can be used for the testing of the antenna using CC.001 clip.

6. Recommendation for Reflow Soldering

It is recommended that the maximum soldering temperature should not exceed 260°C for 5 seconds.

Recommended reflow temperature profile:

Stage	Reflow temperature requirement	Typical	Minimum	Maximum
1	Preheating gradient	2.5°C/sec		
2	Soak Time	2-3 mins	160°C	180°C
3	Maximum reflow gradient	3°C/sec		
4	Time above 217°C		30 seconds	60 seconds
5	Peak temperature in reflow		230°C for 10 seconds	260°C for 5 seconds
6	Cooling gradient	-5°C/sec		



7. Packaging Information

Packaging information to follow.