

Withwave’s Board Edge SMA is connectors are specially designed for high frequency substrates to minimize electromagnetic transition effects from coaxial to Microstrip/CPW structure. We solve your performance and cost problems.



■ Features

- DC to 26.5 GHz
- Board Clearance : 0.6, 0.8, 1.0, 1.1, 1.2, 1.5, 1.6, 1.7, 2.1, 2.3 & 3.6 mm
- Easy Installation on designed substrate

■ Application

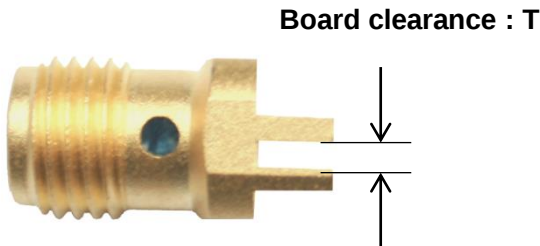
- RFIC Chip set evaluation board
- High data rate ASIC and SoC evaluation module test
- Substrate Characterization

■ Specification

Scope	Items	Specification
Electrical	Freq. range	DC to 26.5 GHz
	Impedance	50 Ohm
	VSWR(Max)	1.20 : 1 (18 GHz) 1.30 : 1 (26 GHz)
Material	Connector type	SMA
	Body	Brass (gold pated)
	Contact	BeCu (gold plated)

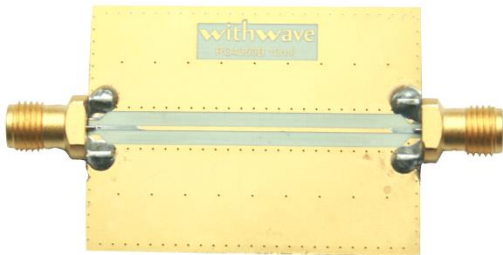
* RoHS Compliant

Ordering Information

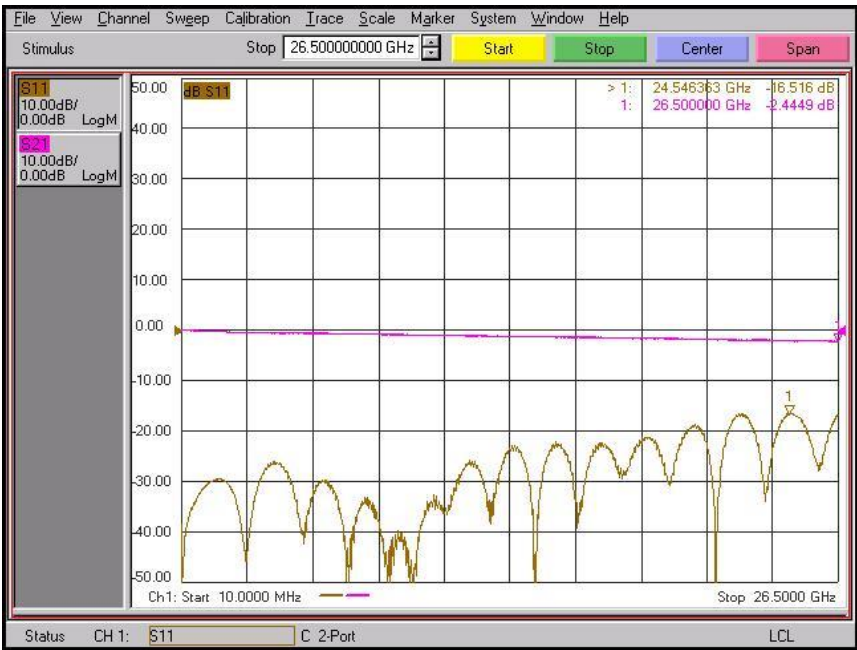


Board Clearance (T : mm)	Part No.
0.6	SM06FS006
0.8	SM06FS007
1.0	SM06FS008
1.1	SM06FS009
1.2	SM06FS010
1.5	SM06FS011
1.6	SM06FS012
1.7	SM06FS013
2.1	SM06FS014
2.3	SM06FS015
3.6	SM06FS017

Measurement data

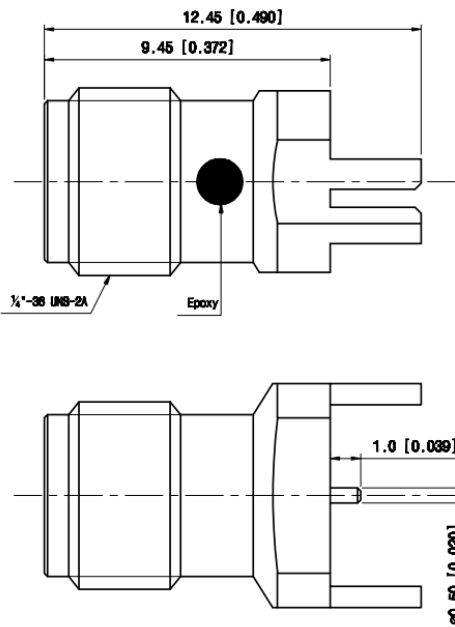


- Frequency : 10 MHz to 26.5 GHz
- Connector : Board Edge SMA (SM06FS007)
- Substrate : RO4350B (10 mil)
- Trace length : 40 mm (microstrip)

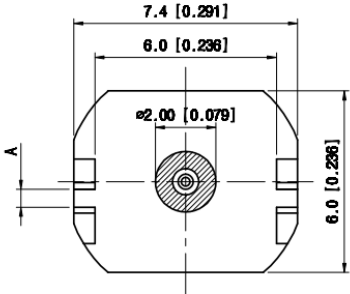


Drawing

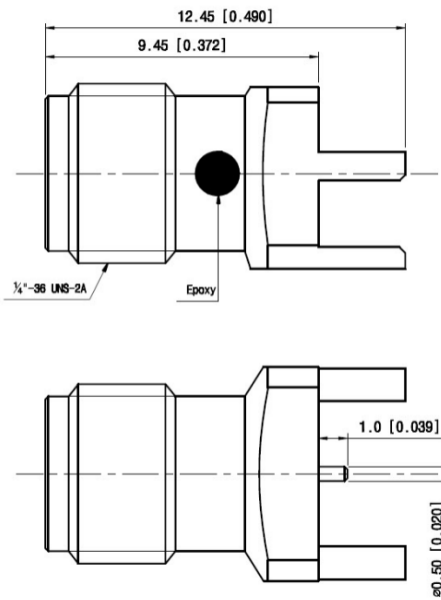
Board Clearance (T : mm)	Part No.
0.6	SM06FS006
0.8	SM06FS007



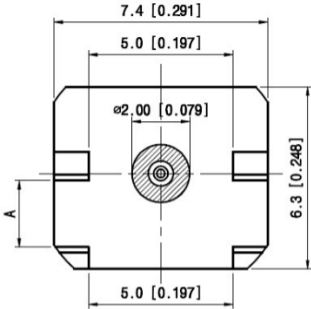
Unit : mm



Board Clearance (T : mm)	Part No.
1.0	SM06FS008
1.1	SM06FS009
1.2	SM06FS010
1.5	SM06FS011
1.6	SM06FS012
1.7	SM06FS013
2.1	SM06FS014
2.3	SM06FS015

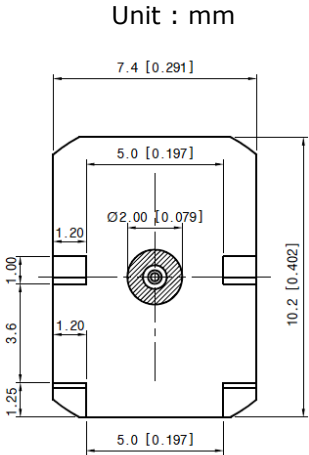
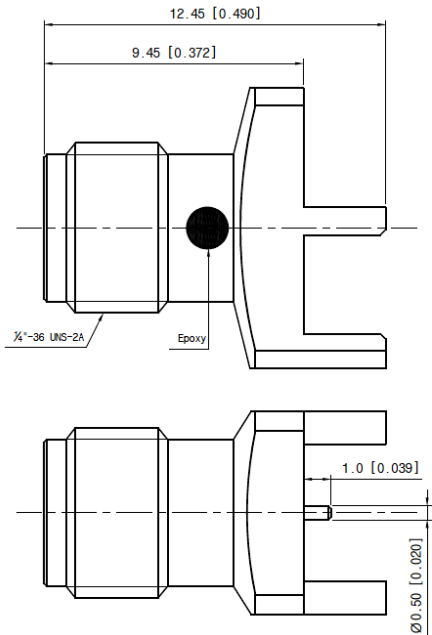


Unit : mm



■ Drawing

Board Clearance (T : mm)	Part No.
3.6	SM06FS017



■ Installation Procedure

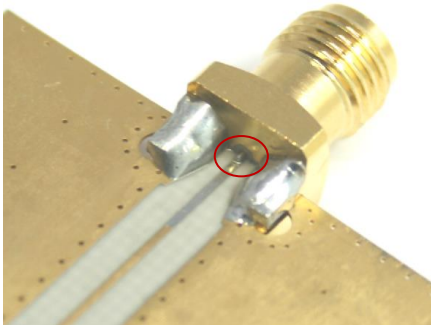
STEP 1 :

Insert Board Edge SMA connector at the edge position of substrate.



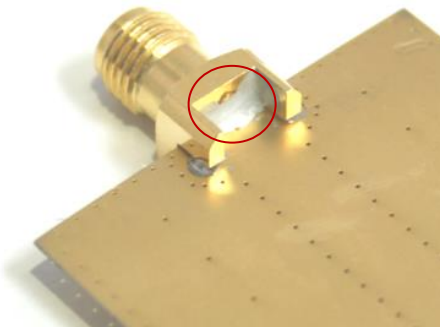
STEP 2 :

Make sure contact pin is aligned with the center of the signal trace. and, solder contact pin on the signal trace and two legs on the ground plane while ensuring the connector is held in the correct position.



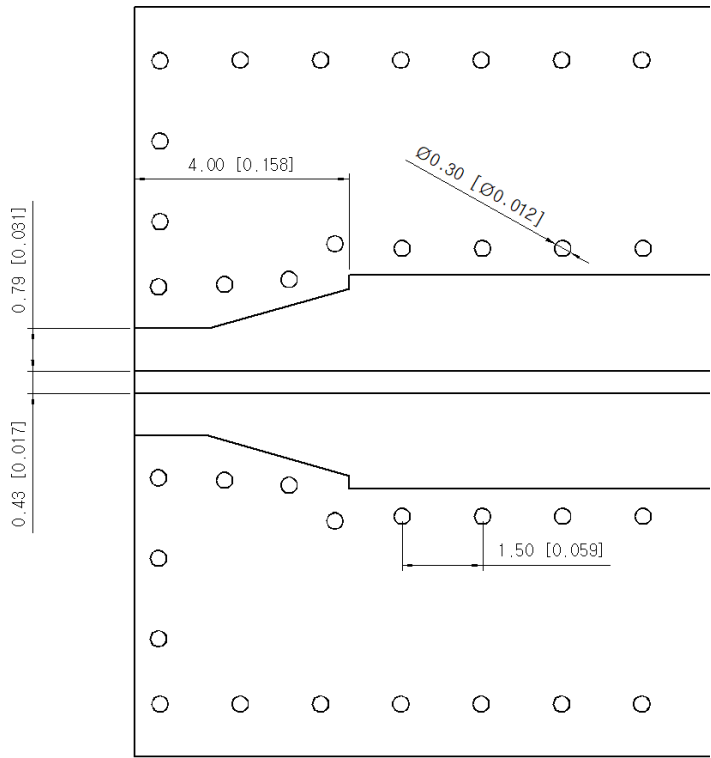
STEP 3 :

Solder two legs and connector body on the back side of substrate (ground plane) to improve RF performance. Remove any excess solder and clean all flux and other residues from trace area.

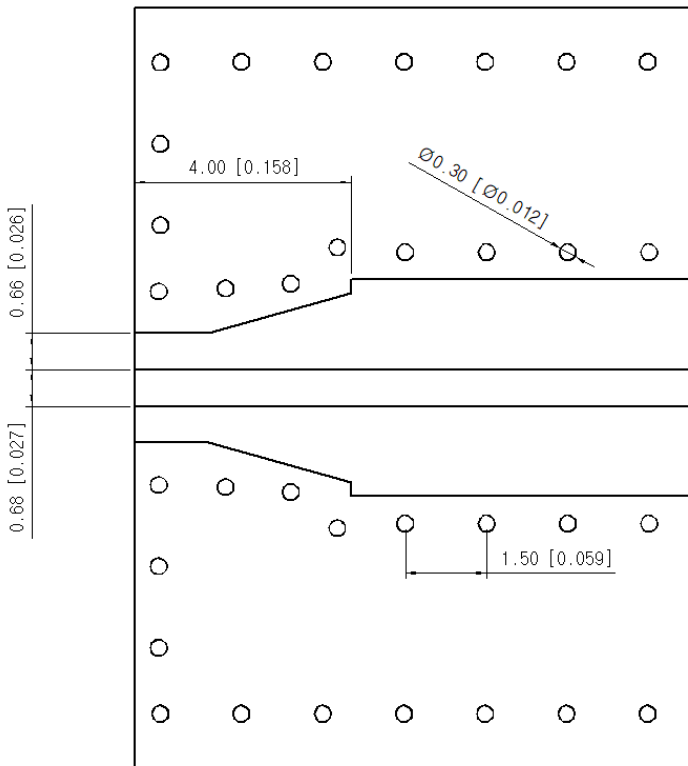


■ Recommended Patten

RO4003C 8 mil
Microstrip type

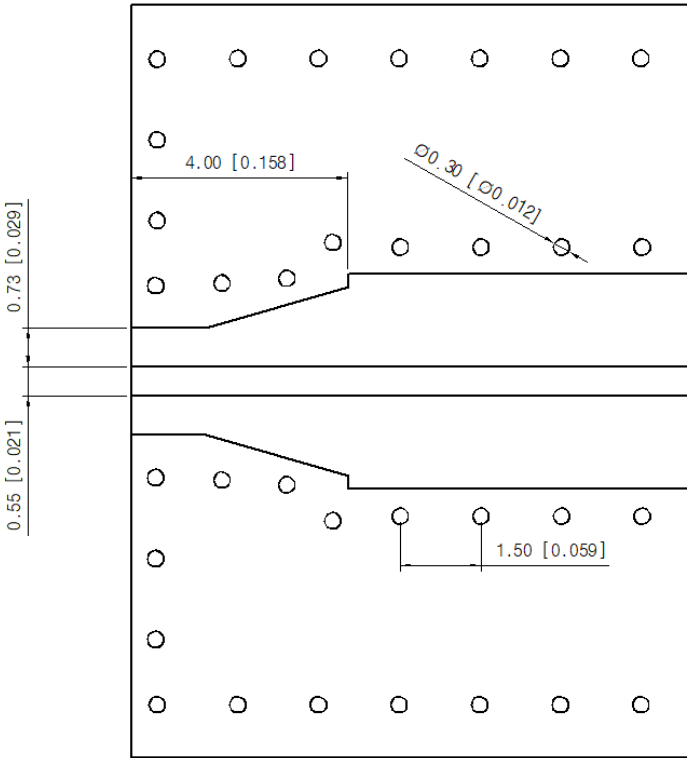


RO4003C 12 mil
Microstrip type

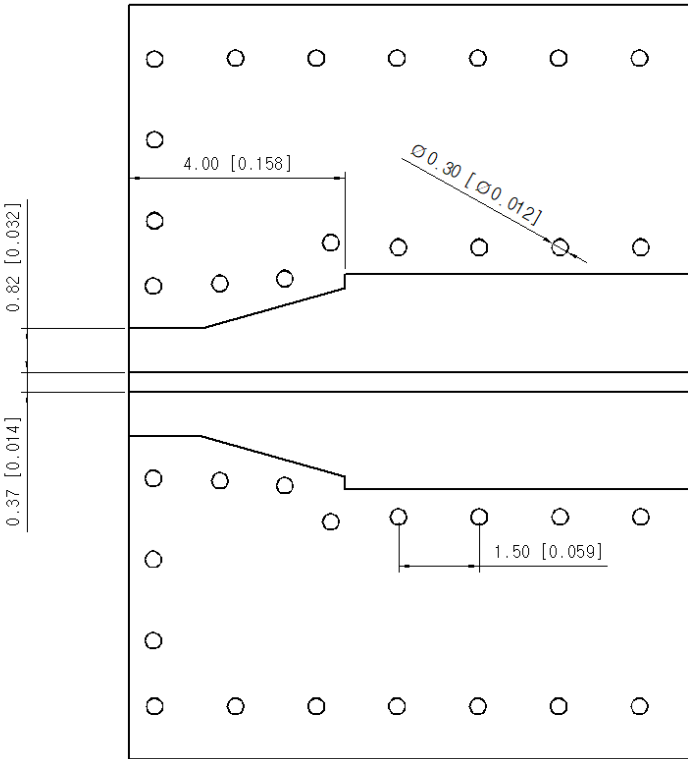


Recommended Patten

RO4350B 10 mil
Microstrip type

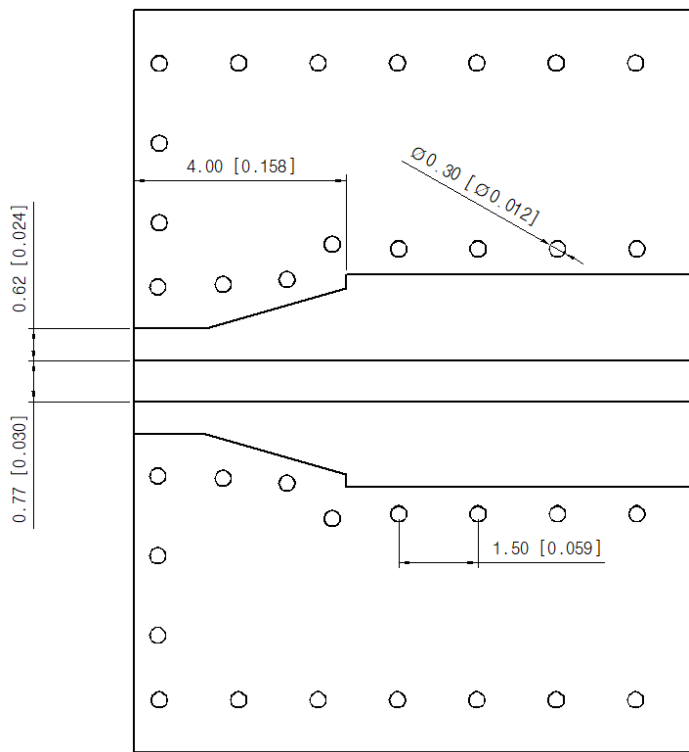


Du5880 5 mil
Microstrip type



■ Recommended Patten

Du5880 10 mil
Microstrip type



■ Revision History

Revision	Date	Changes
Ver 1.2	2018-07-12	Add part number of Board Clearance 3.6 mm (SM06FS017)
Ver.1.3	2018-07-23	Add drawing of Board Clearance 3.6 mm(SM06FS017)
Ver 1.4	2020-08-07	Add Recommended PCB Patterns (Microstrip type) and Installation procedure