DC to 26.5 GHz



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 (26.5 GHz)	
Material	Connector type	SMA	
	Body	Brass (gold pated)	
	Contact	BeCu (gold plated)	

* RoHS Compliant

DC to 26.5 GHz



Ordering Information

Board clearance: T



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)





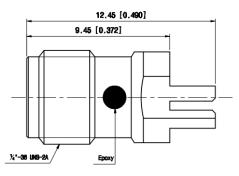
Unit: mm

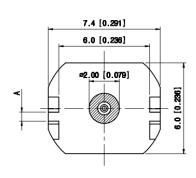
Drawing

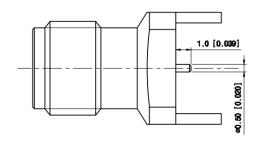
Board Part No.
Clearance
(T:mm)

0.6 SM06FS006

0.8 SM06FS007

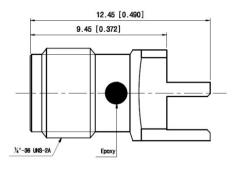


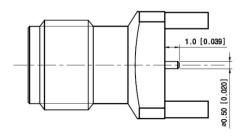


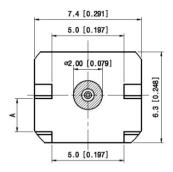


Unit: mm

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





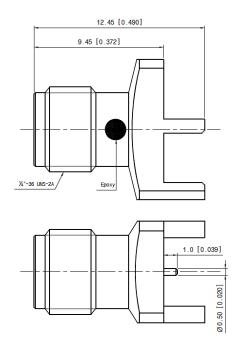


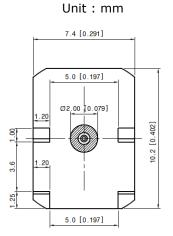
DC to 26.5 GHz



Drawing

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



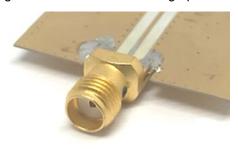




■ Installation Procedure

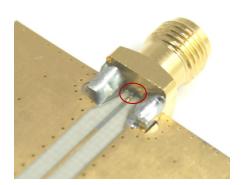
STEP 1:

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



STEP 2:

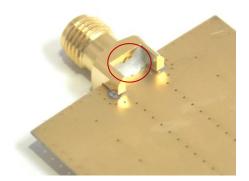
Make sure contact pin is aligned with the center of the signal trace. and, solder contact pin on the signal trace and two legs on the ground plane while ensuring the connector is held in the correct position.





STEP 3:

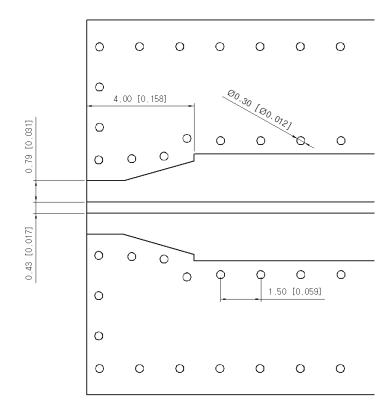
Solder two legs and connector body on the back side of substrate (ground plane) to improve RF performance. Remove any excess solder and clean all flux and other residues from trace area.



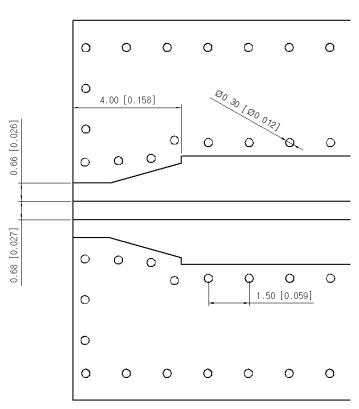


Recommended Patten

RO4003C 8 mil Microstrip type



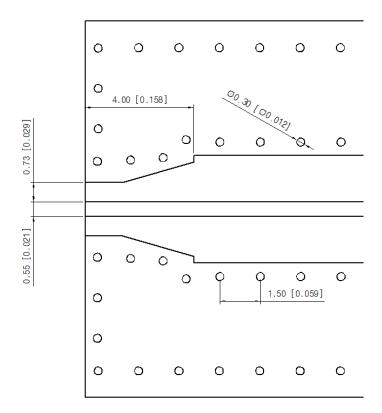
RO4003C 12 mil Microstrip type



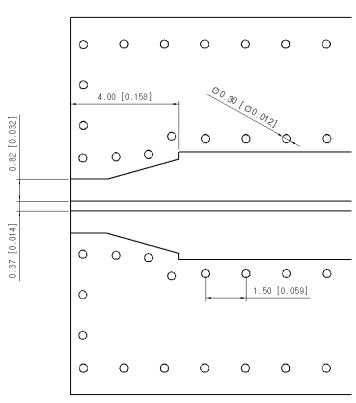


Recommended Patten

RO4350B 10 mil Microstrip type



Du5880 5 mil Microstrip type

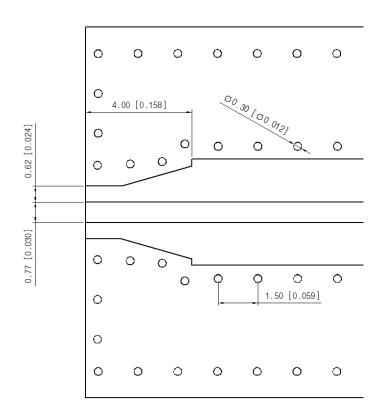


DC to 26.5 GHz



Recommended Patten

Du5880 10 mil Microstrip type



Board Edge SMA DC to 26.5 GHz



Revision History

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