

\*Change new drawing frame in Blue Color since 2009/07/01 , to comply with Company CIS Policy.

## Revisions

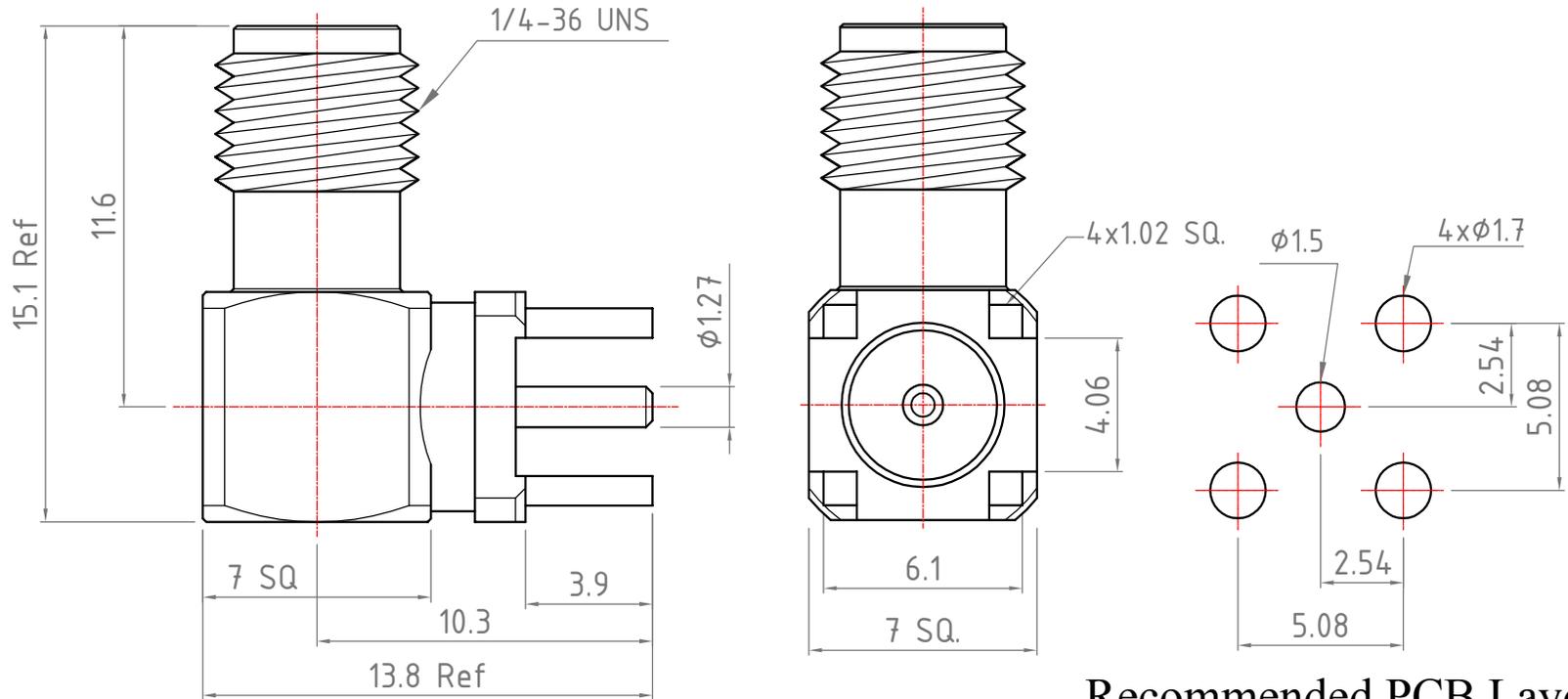
Note: Revisions B; B-1; B-2..... On Behalf of Official Drawing.  
Revisions 1; 2; 3; 4..... On Behalf of Experiment's Drawing.

ISS	Symbol	Description	Date
B		CHE for New Drawing Frame & New PN System	2006/07/10

Outline Drawing

### Notes :

- Any Electrical, Mechanical or Environmental Test Per MIL-PRF-39012F Should be Spotlighted, as We May Not Have All Testing Equipment to Cover All of It.
- All Metal Materials Are in Compliance with RoHS 2 Directive 2011/65/EU Annex III Section 6 Paragraph.



### Electrical :

Impedance : 50 ohm  
 Frequency Range : 0~12.4 GHz .  
 Voltage Rating : 500 V rms.(depending on cable)  
 Insulator Resistance :  $\geq 5$  G $\Omega$   
 Dielectric Withstanding Voltage : 1000 V rms .  
 Contact Resistance : Inner Contact  $\leq 3$  m $\Omega$ .  
 Outer Contact  $\leq 2.5$  m $\Omega$ .

### Mechanical :

Mating : 1/4-36 UNS Screw-on Coupling.  
 Recommended Mating Torque : 7.1~9.7 lbs  
 Coupling Nut Retention Force :  $\geq 60.7$  lbs

### Environmental :

Temperature Range : -65°C to 165°C  
 Corrosion(Salt Spray) : MIL-STD-202, Method 101, Cond. B  
 Thermal Shock : MIL-STD-202, Method 107, Cond. B  
 Mechanical : MIL-STD-202, Method 213, Cond. I  
 Vibration : MIL-STD-202, Method 204, Cond. D

### Finish :

 [Unit of Plating Thickness Is in Micro Inch( $\mu$ )]

- Copper Strike Plating Thickness : 20  $\mu$ " min.
- Nickel Plating Thickness : 120  $\mu$ " min.
- Gold Plating Thickness : 30  $\mu$ " min.
- Gold Plating Thickness : 2  $\mu$ " max.

## Recommended PCB Layout

\*RoHS and REACH are fully complied to create a greener planet for future generations.

ITEM	Description	Material	Finish	Part Number	QTY	Scale	Abbr.	Date	Rev.	DWG.NO.	Customer P/N:	TITLE
5						NTS	ST	2016/07/13	B	S209L0G29		SMA R/A Jack, PCB Mount Type
4						Tolerances : .X $\pm 0.2$ .XX $\pm 0.1$ .XXX $\pm 0.05$ Angular : .X $\pm 1^\circ$						RoHS 2
3	Inner Contact	BeCu	Finish 1/2/3			Proprietary Note This document contains information proprietary to S-Conn, which is either copyrighted, or patent applied for, and / or protected by trade secret laws. This document or parts thereof, may not be used, disclosed or reproduced in any form by any method, or for any purpose, without the written permission of S-Conn, Taiwan.						
2	Insulator	PTFE	None			All Dimensions in mm (Unless Otherwise Specified)						
1	Body	Brass	Finish 1/2/4									
						Drawn	Checked	Approved				S-Conn Enterprise Co., Ltd.
						Mark	Mark	H. Sun				
						2016/07/13	2016/07/13	2016/07/13				