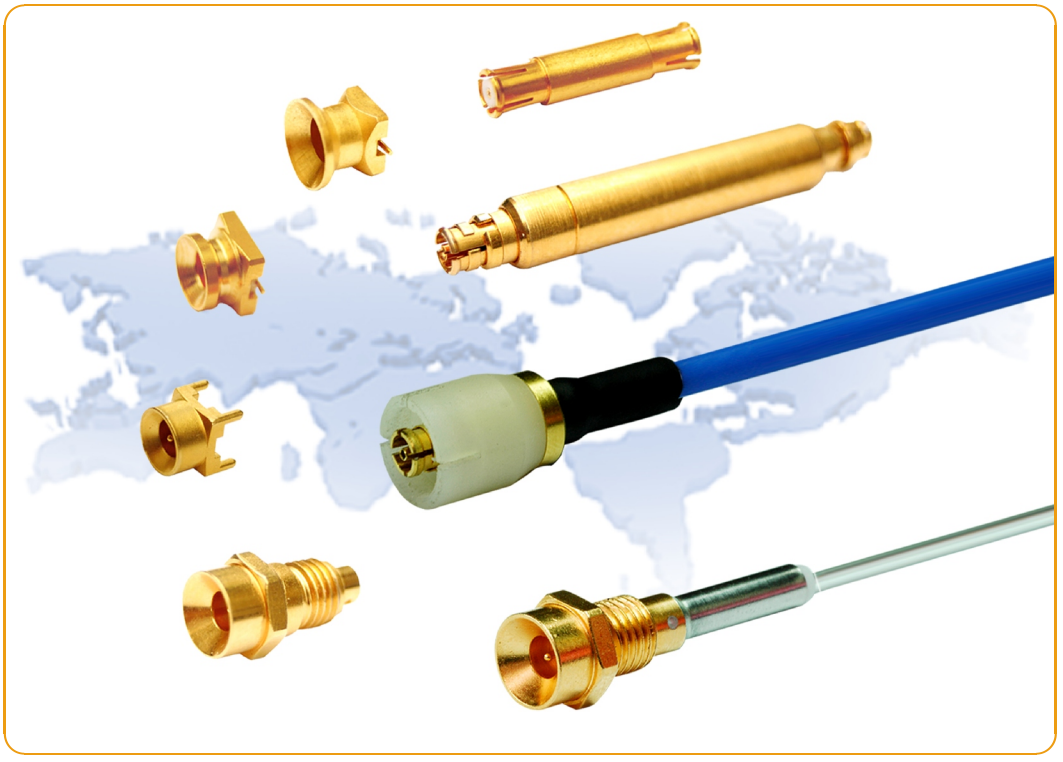
L-SMP SERIES RF CONNECTOR



The L-SMP connectors, comprated with SMP connectors, not only a configuration diversification, but also an optimization and improvement in certain area. It meets the requirement of board to board connection , as well as SMT technologic requirement.

The L-SMP provides the solutions for PCB board to board connection in communication systems with denser setting ,blind mating and limited space requirement. This product has got the patent grand from Rosenberger .The frequency range for L-SMP series connectors is DC~6GHz.
They meet requirements for quick engagement and disengagement in small spaces and surface mountproduction process .

The L-SMP interface provides 4° of radial misalignment for critical blind mate applications. Mating forces are strictly controlled to ensure reliable connections per mated pair or when simultaneously mating multiple connectors.

L-SMP increases the smooth bore’ s length to ensure reliable connections when mating.The socket hold a 4-slot configurations to ensure a flexibility and reliable connections, whenas conventional socket is a 2-slot configuration， and the diameter of the center contact is 0.70mm to maintain the better intensity by comparing with the traditional 0.38mm design.

hese connectors are machined to exacting toelerances and the highest quality standards on modern CNC turning centers, and assembly process is tightly controlled and monitored to ensure peak consistency of performance from unit to unit.

L-SMP Typical Using Method

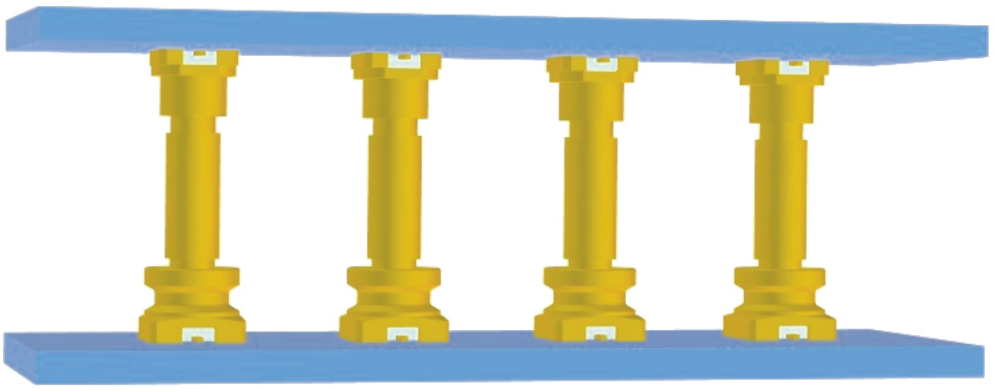
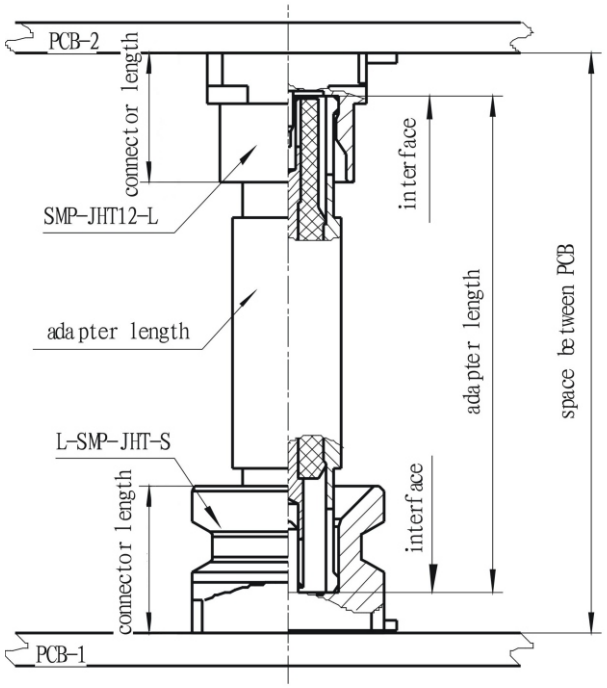


Figure1 L-SMP Features



Assembly figures

Connector	Connector length	Spaces between PCB	Note
L-SMP/SMP-KK12	12.0	14.6	
L-SMP/SMP-KK10	13.2	15.8	
L-SMP/SMP-KK	15.6	18.2	
L-SMP/SMP-KK11	30.0	32.6	

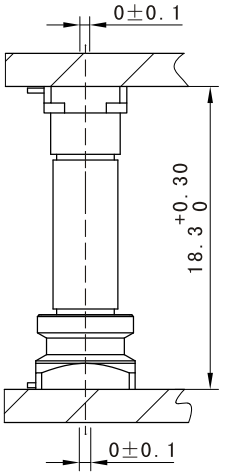


Figure 2 sketch of axial misalignment requirement

After mating together , axial allow a 0.30mm removement .Take 18.30 PCB distances as an example . The distance of the two PCB is between 18.30 to 18.60 ,radial allows 0.20 mm mounting error .

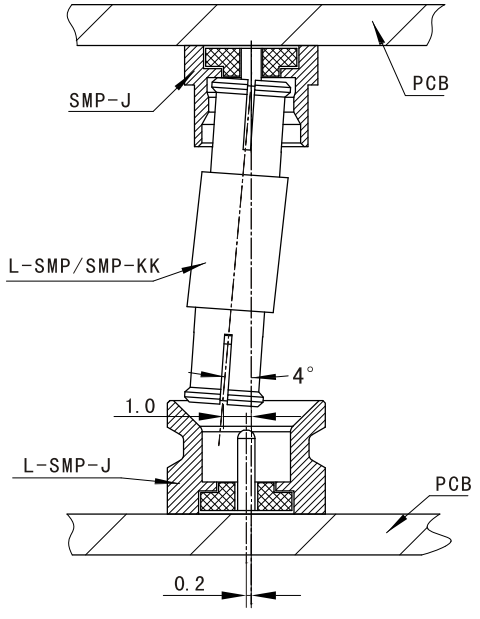


Figure 3 sketch of radial misalignment requirement

As the error of axial is 0.2mm after the PCB mount connectors fixed. When the adapters assemblied the deflexion is 4 max.

L-SMP Typical Using Method

A.The differences between the dimensions of SMP：

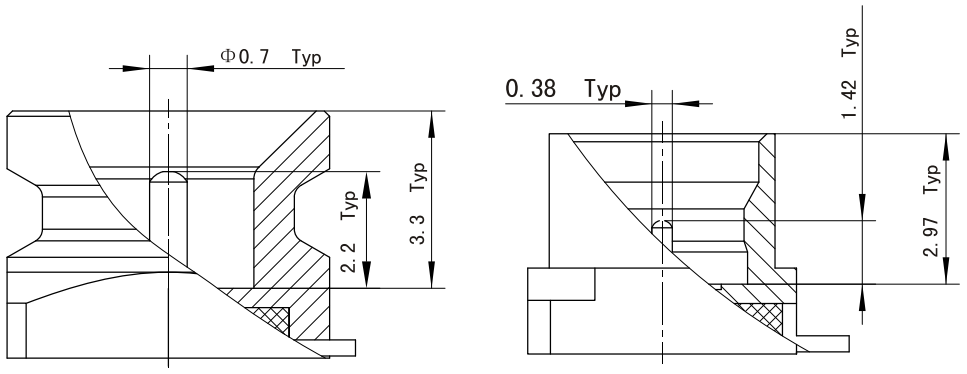


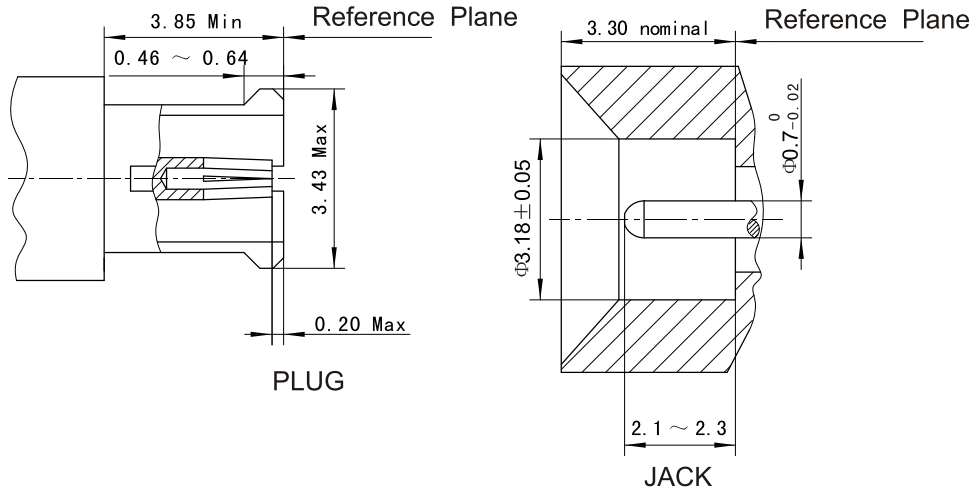
Figure 4 L-SMP has Longer contact length and thicker inner conductor compared with SMP

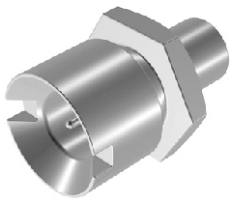
L-SMP interface dimension

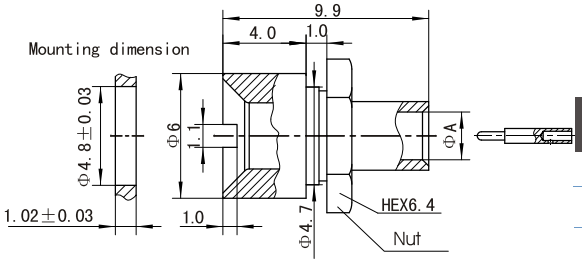
Applicable standard:
Q/FD20364-2008
Q/FD20365-2008

L-SMP SMP has similar features

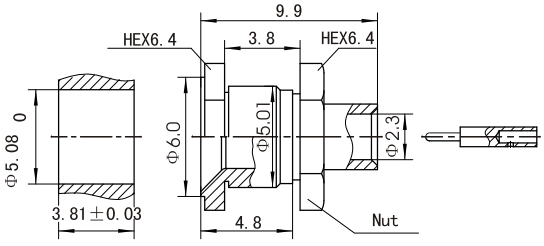
Interface Dimensions



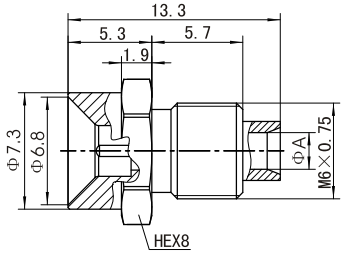




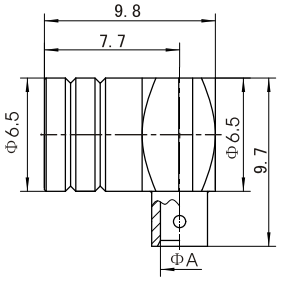
Type	ϕA	Note
L-SMP-JB1B-S	1.3	
L-SMP-JB2B-S	2.2	



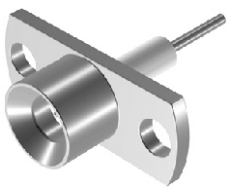
Type	Note
L-SMP-JB2C-S	

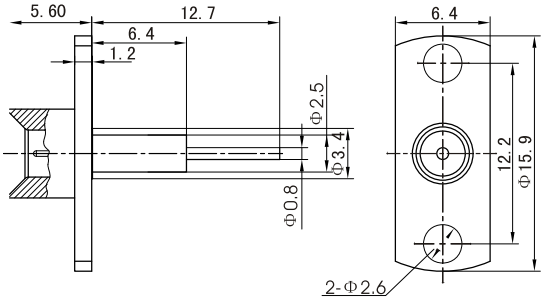


Type	ϕA	Note
L-SMP-JYB1B-S	1.3	
L-SMP-JYB2B-S	2.2	

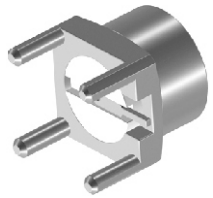


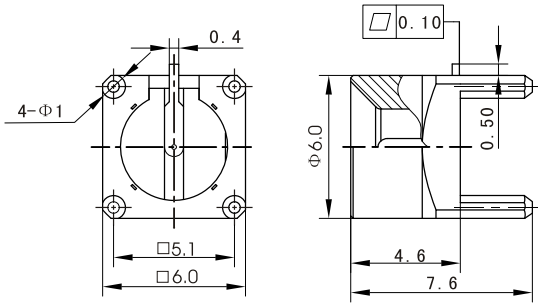
Type	ϕA	Note
L-SMP-JWB1-S	1.3	
L-SMP-JWB2-S	2.2	



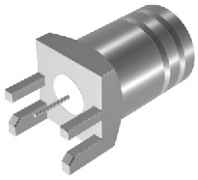


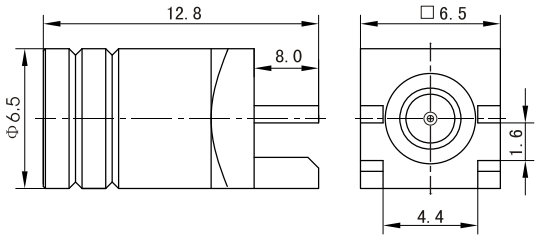
Type	Note
L-SMP-JFD-S	



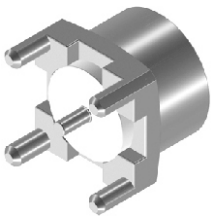


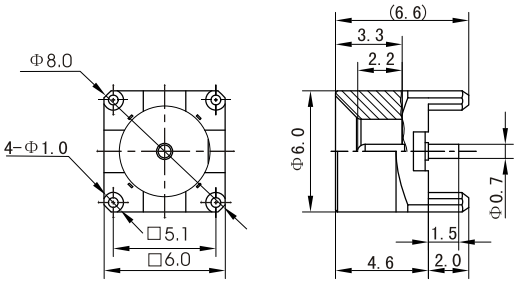
Type	Note
L-SMP-JHD-S	



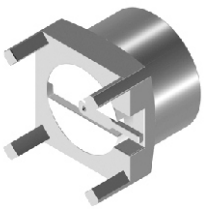


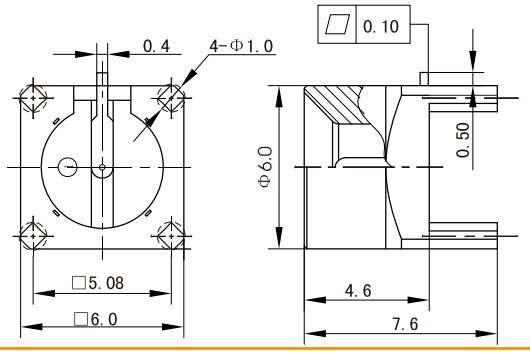
Type	Note
L-SMP-JHD1-S	



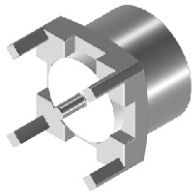


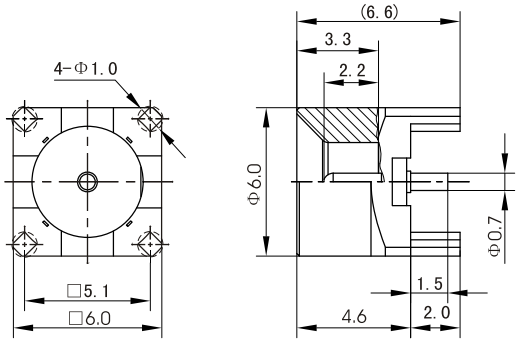
Type	Note
L-SMP-JHD2-S	



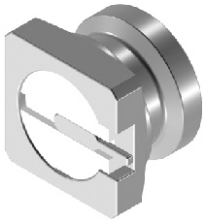


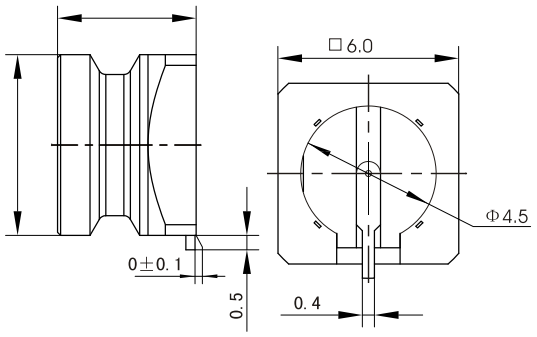
Type	Note
L-SMP-JHD3-S	



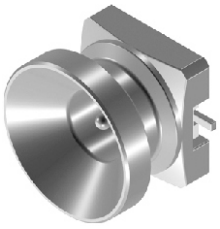


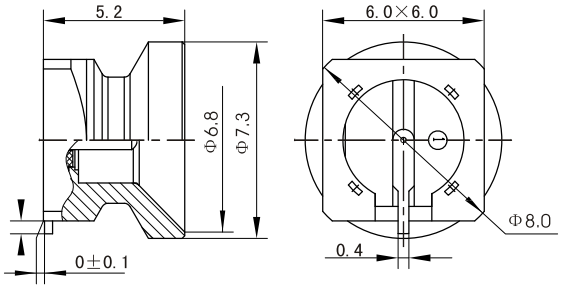
Type	Note
L-SMP-JHD4-S	



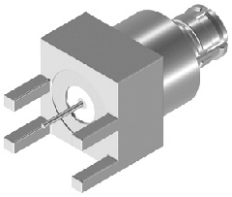


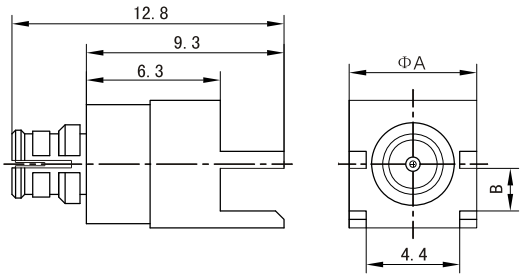
Type	Note
L-SMP-JHT-S	



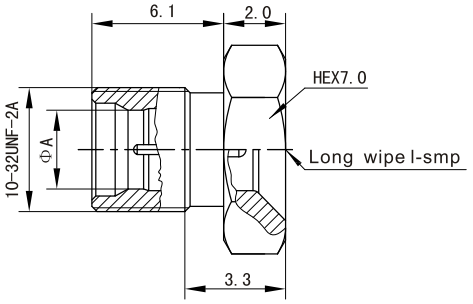


Type	Note
L-SMP-JHT1-S	

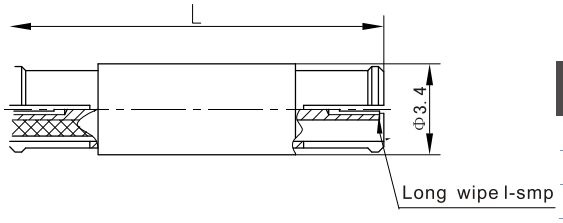




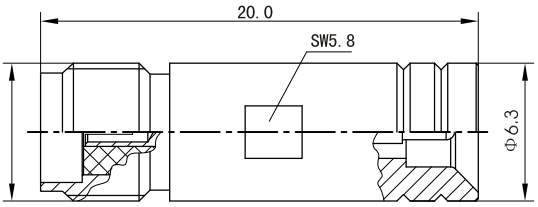
Type	ϕA	B	Note
L-SMP-KHD	6.0	1.6	
L-SMP-KHDA	6.0	2.0	
L-SMP-KHDB	7.0	2.2	
L-SMP-KHDC	7.0	2.5	



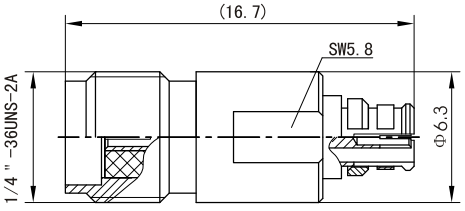
Type	ϕA	Note
L-SMP/SMP-JYJ-SS	3.18	
L-SMP/SMP-JYJ-SL	3.05	
L-SMP/SMP-JYJ-SF	2.95	



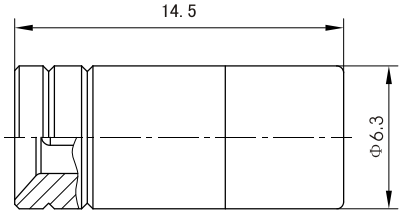
Type	L	Note
L-SMP/SMP-KK	15.6	
L-SMP/SMP-KK10	13.2	
L-SMP/SMP-KK12	12.0	



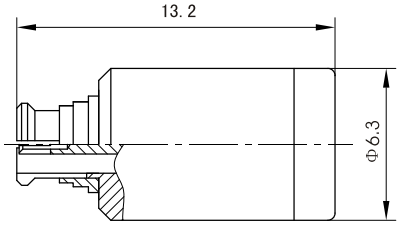
Type	Note
ISMA/L-SMP-KJG-S	



Type	Note
ISMA/L-SMP-KK	



Type	L	Note
L-SMP-JR-S	15.6	



Type	Note
L-SMP-50KR	