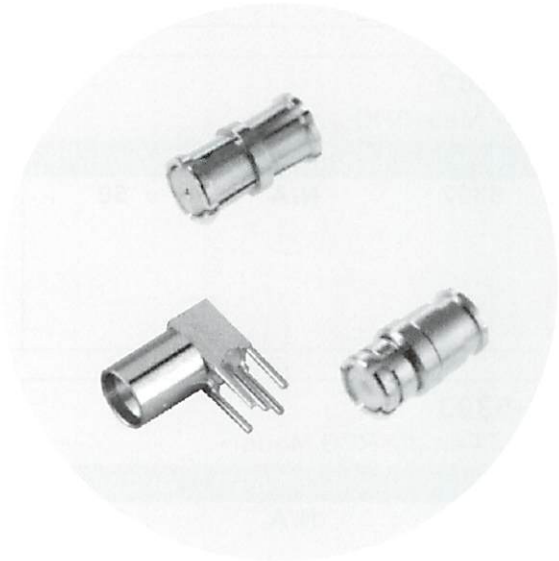
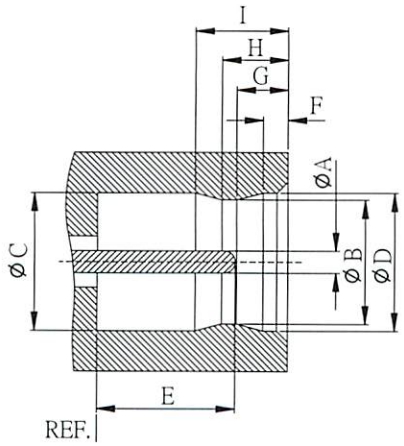
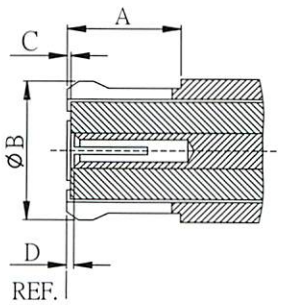
The SMP interface is a subminiature interface in the same scale as MMCX connectors but offers 50 ohm impedance with a frequency range of DC to 40GHz. It is commonly used in miniaturized high frequency coaxial modules. It is available in 3 levels of detent each with different insertion and extraction forces. It provides an ideal interconnect solution for high frequency board to board application and cable to Board application.



Interface dimensions:





MALE(PLUG) mm		
	Min.	Max.
A	0.36	0.41
B	2.90	3.00
C	3.13	3.32
D	3.56	3.68
E	1.14	1.40
F	0.84	0.94
G	1.40	1.45
H	1.98	2.08
I	2.19	2.29

FEMALE(JACK) mm		
	Min.	Max.
A	2.84	-
B	-	3.43
C	-	0.00
D	0.00	0.20

Electrical:

Impedance		50 ohm
Frequency Range		semi-rigid cable:0 to 18 GHz
Working Voltage		335 VRMS max
Dielectric Wuthstanding Voltage		500 VRMS max
VAWR	Straight	1.3 max
	Right Angle	1.5 max
Contact Resistance	Center Contact	2.0 Milliohms Max.
	Outer Contact	6.0 Milliohms Max.
Insulator Resistance		5,000 Megohms min.

Meaterial:

Parts name	Material	Finish
Body, Metal Parts	Brass per QQ-B-626	Gold
Center Contacts	Male:Brass per QQ-B-626	Gold
	Female:Beryllium Copper per QQ-C-530	
Insulators	PTFE	None

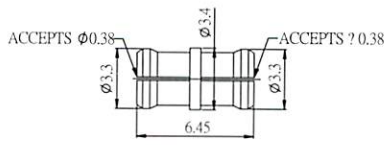
NOTE: Other Material/Finish is Available on Request.

Mechanical & Environmental:

Mating	Snap-on coupling
Engagement Force	2 in-lbs. max.
Disengagement Force	2 in-lbs. max.
Coupling Nut Retention	60 lbs.min.
Contact Retention	RG-405→30lbs min RG-174, 188, 316→20 lbs min
Durability(Mating)	500cycles min.(For Beryllium copper female contact only)
Temperature Range	-65℃ to 165℃
Vibration	MIL-STD-202 Menthod 204 Test Cond.D.
Shock	MIL-STD-202 Menthod 213 Test Cond.I.
Thermal Shock	MIL-STD-202 Menthod 107 Test Cond.B.

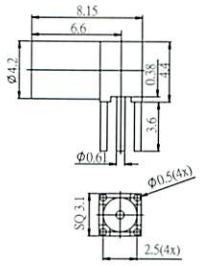
P-5501
SMP Female to Female Center Contact

P/N	CABLE GROUP	IMPEDANCE
5501	N/A	50



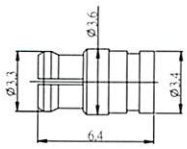
P-5502
SMP Right Angle Receptacle PCB

P/N	CABLE GROUP	IMPEDANCE
5502	N/A	50



P-5503
SMP Male

P/N	CABLE GROUP	IMPEDANCE
5503	N/A	50



P/N	CABLE GROUP	IMPEDANCE

P/N	CABLE GROUP	IMPEDANCE

P/N	CABLE GROUP	IMPEDANCE