

SMP

► DESCRIPTIONS

SMP is a subminiature interface in the same scale as MMCX connector but offers a frequency range of DC to 40GHz.

It is commonly used in miniaturized high frequency coaxial modules and is offered in both push-on and snap-on coupling mechanism.

The interface is excellent choice for board to board interconnects.

For these applications, the interface series offers an interesting solution by utilizing a male connector on each of the PC boards and a female to female adaptor mounted in between to complete the connection.

The female adaptor is often called a bullet and is necessary to provide a flexible link between the male connectors.

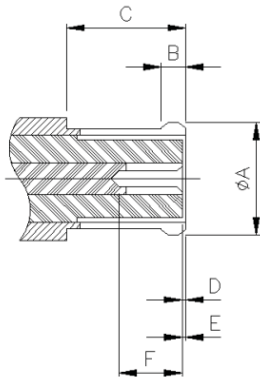
In its snap-on configuration, SMP interface is available in two levels of detent each with different mate and demate forces. The two levels are full detent and limited detent.

In board mount applications, the lower level of detent (limited detent) is typically selected, as it is only required to retain the bullet. Full detent is often used for discreet cable connections where higher forces are desirable.

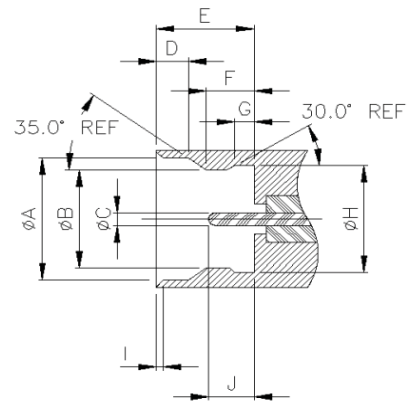


▶ INTERFACE DIMENSIONS

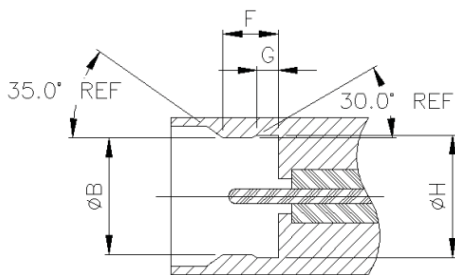
PLUG



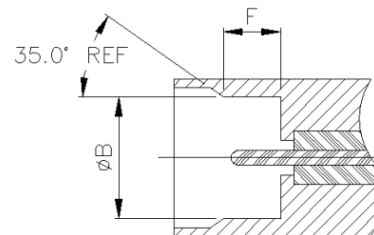
JACK (FULL DETENT)



JACK (LIMITED DETENT)



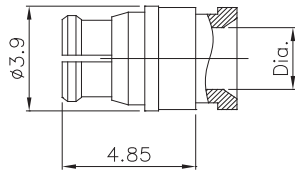
JACK (SMOOTH BORE)



Rep.	PLUG				JACK											
					FULL DETENT				LIMITED DETENT				SMOOTH BORE			
	mm		inch		mm		inch		mm		inch		mm		inch	
	min.	max.	min.	max.	min.	max.	min.	max.	min.	max.	min.	max.	min.	max.	min.	max.
A		3.429		0.135	3.580	3.720	0.141	0.146								
B		0.533		0.021	2.890	2.990	0.114	0.118	3.028	3.068	0.119	0.121	3.155	3.195	0.124	0.126
C	2.845			0.112	0.360	0.400	0.014	0.016								
D		0.200	0.000	0.008	0.839	0.939	0.033	0.037								
E	0.000	0.000	0.000	0.000	2.750	2.840	0.108	0.112								
F	1.778			0.070	1.300	1.440	0.051	0.057	1.3716	1.524	0.054	0.060	1.4986	1.651	0.059	0.065
G					0.528	0.588	0.021	0.023	0.5207	0.5969	0.021	0.024				
H					3.155	3.195	0.124	0.126								
I					0.070	0.200	0.003	0.008								
J					1.140	1.397	0.045	0.055								

▶ TECHNICAL DATA

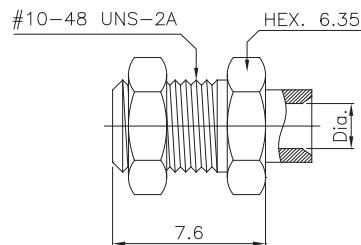
REQUIREMENT	SPECIFICATIONS
ELECTRICAL CHARACTERISTICS	
Impedance	50Ω
Frequency range	DC~26.5GHz
V.S.W.R.	1.20 @ 20GHz
Voltage rating(at see level)	500Vrms MIN.(depending on cable)
Contact resistance	
Center contact	6mΩ MAX.
Outer contact	2mΩ MAX.
Insulation resistance	5000MΩ MIN.
MECHANICAL CHARACTERISTICS	
Engagement force	9.0lbs(40N) MAX.
Disengagement force	0.5lbs(2N) MIN.
Durability(life time)	500matings
ENVIRONMENTAL CHARACTERISTICS	
Temperature range	-65℃ ~ +165℃
Thermal shock	MIL-STD-202, METHOD 107, CONDITION C
Moisture resistance	MIL-STD-202, METHOD 106, CONDITION D
Mechanical shock	MIL-STD-202, METHOD 213, CONDITION B
Vibration	MIL-STD-202, METHOD 204, CONDITION B
MATERIALS	
Body and outer contact	Brass
Male contact	Brass
Female contact	Beryllium copper
Crimp ferrule	Brass
Insulator	PTFE
FINISH	
Body and outer contact	Gold plate
Male contact	Gold plate
Female contact	Gold plate
Crimp ferrule	Gold plate



Straight Plugs

- Direct solder type

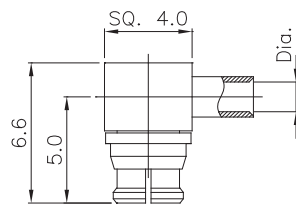
PART NO.	Dia.	CABLE
S850-001	Ø1.4	UT 047
S850-002	Ø2.3	UT 085, RG 405



Straight Bulkhead Jacks

- Direct solder type

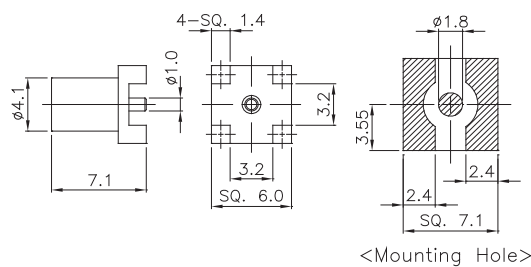
PART NO.	Dia.	CABLE
S850-004	Ø1.4	UT 047
S850-005	Ø2.3	UT 085, RG 405



Right Angle Plugs

- Solder Type

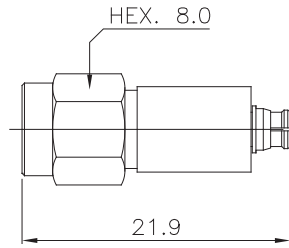
PART NO.	Dia.	CABLE
S850-006	Ø1.4	UT 047
S850-007	Ø2.3	UT 085, RG 405



Straight Jack for PCB (SMT)

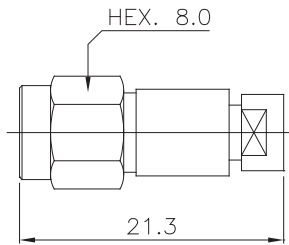
PART NO.	IMPED
S850-008	50 Ω

SMP



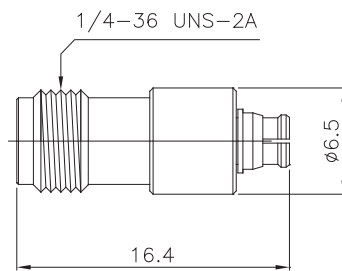
SMP Plug to SMA Plug Adaptor

PART NO.	IMPED
S500-4001	50 Ω



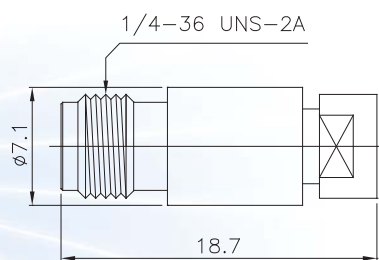
SMP Jack to SMA Plug Adaptor

PART NO.	IMPED
S500-4002	50 Ω



SMP Plug to SMA Jack Adaptor

PART NO.	IMPED
S500-4003	50 Ω



SMP Jack to SMA Jack Adaptor

PART NO.	IMPED
S500-4004	50 Ω