

SMP 系列超小型盲配射频连接器

SMP是一种新型超小型盲配射频连接器，具有使用频率高、连接快速、抗振性强、允许在轴向和径向上有一定的失配量等特点，尤其适用于印制板、机箱、机柜间的高密度盲插合，近几年来，在相控阵雷达、航空、航天和民用通讯领域得到了越来越广泛的应用。



SMP系列产品简介

SMP系列超小型推入式连接器为模块化密集安装的应用场合提供了很好的解决方案，选择合适的SMP系列连接器和安装方式，连接器中心间距最小可以达到4.8mm。

SMP系列盲插式连接器使用频率可达40GHz的频率，根据阳头界面尺寸不同，可提供三种不同连接保持力的产品：

全擒纵Full detent式界面，连接保持力最大，抗振动、冲击性能最好。常用于电缆连接；

有限擒纵Limited detent(又称半擒纵)式界面，连接保持力次之。常用于PCB组装或盲插式连接；

光孔Smooth bore和带制动Catcher mitt式界面，连接保持力最小。二者有相同的啮合力和分离力，允许轴向和径向不对准，常用于盲插式连接。其中，带制动的设计使精确连接变得更容易。

SMP阳头连接器的命名：我公司根据界面不同有不同的命名，根据界面不同，分别在“J”前增加“F.”（全擒纵）、“C.”（带制动）和“S.”（光孔），什么都不加时为有限擒纵。以SMP-JFD为例，全擒纵SMP-F.JFD，有限擒纵SMP-JFD，光孔SMP-S.JFD，带制动SMP-C.JFD。

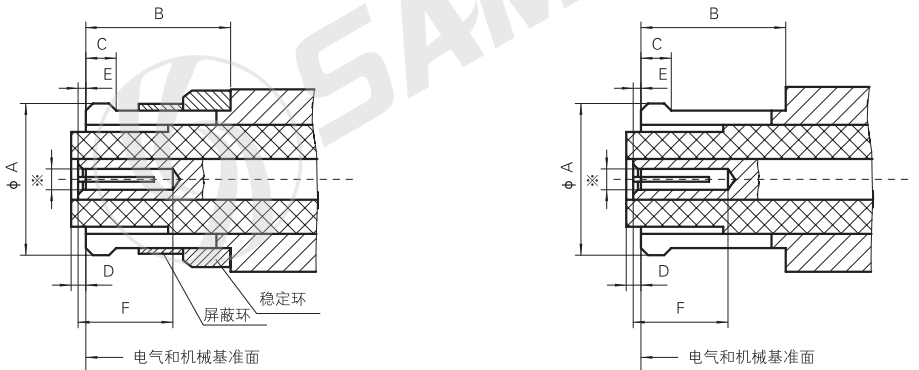
阴头连接器分接电缆和不接电缆两种界面，当接电缆或有抗振、抗冲击要求时，需在阴头增加稳定环，为减少产品电磁泄漏，可增加屏蔽环。

主要技术特性

特性阻抗 Characteristic Impidance		50Ω	介质耐压 Dielectric Withstanding voltage		500V
频率范围 Frequency Range	配软电缆 With flexible cable	0~12.4GHz	绝缘电阻 Insulation resistance		5000MΩ
	配半钢、半柔性电缆 With semi-rigid/flexible cable	0~40GHz	光孔 Smooth bore		1000Cycles
电压驻波比 VSWR	配软电缆 With flexible cable	≤1.15+0.02F	寿命 Durability	有限擒纵 Limited detent	500Cycles
	配半钢、半柔性电缆 With semi-rigid/flexible cable	≤1.1+0.02F		全擒纵 Full detent	100Cycles
径向不对准 radial misalignment		±0.25mm	轴向不对准 axial misalignment		0,+0.25mm

	光孔 Smooth bore	有限擒纵 Limited detent	全擒纵 Full detent
啮合力 (max) Engagement force	9N	45N	68N
分离力 (min) Separation fore	2.2N	9N	22N

插孔接触件连接器界面

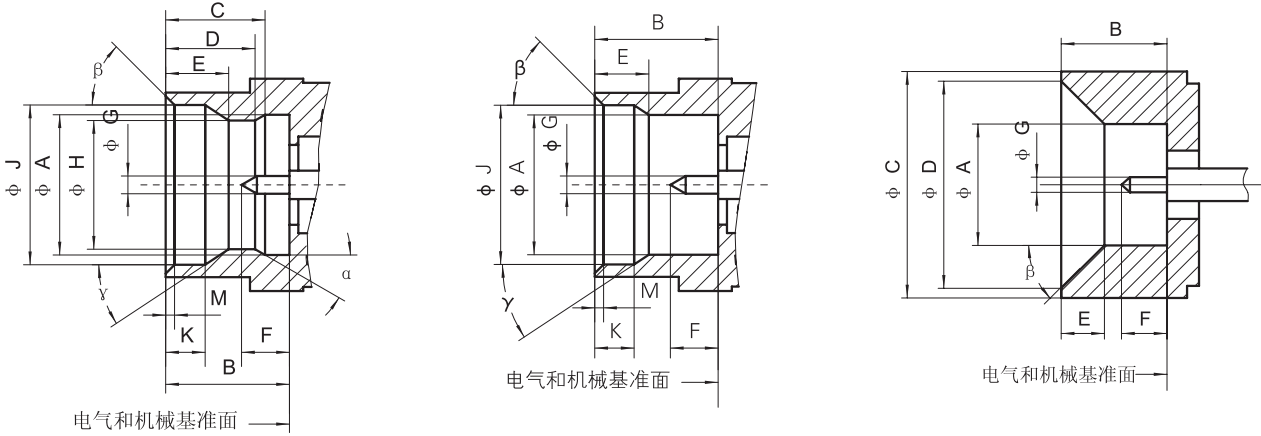


※ 可插入直径为 $\phi 0.38 \pm 0.03$ 的插针。
SMP 系列插孔接触件连接器界面

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SMP 系列插孔接触件连接器界面

Symbol	Min(mm)	Max(mm)	Note
A		3.43	
B	3.35		接电缆连接器
	2.84		不接电缆连接器
C	0.46	0.64	
D		0	介质伸出
E	0	0.2	中心接触件缩进

插针接触件连接器界面



SMP 系列插针接触件连接器界面
(全擒纵或有限擒纵)

SMP 系列插针接触件连接器界面 (光孔)

SMP 系列插针接触件连接器界面 (光孔带制动装置)

插针接触件连接器界面(全擒纵或有限擒纵)

Symbol	Min(mm)	Max(mm)	Note
A	3.13	3.23	
B	2.74	2.84	
C	2.19	2.29	
D	1.98	2.08	
E	1.39	1.45	
F	1.14	1.4	
G	0.35	0.41	
H	2.9	3	全擒纵
	3	3.1	有限擒纵
J	3.53	3.69	
K	0.84	0.94	
M	0.08		
α	30		参考
γ	30		参考
β	40	50	

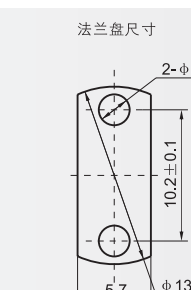
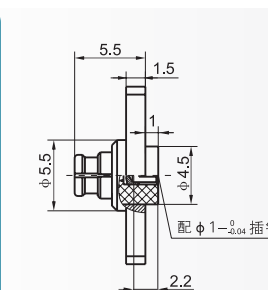
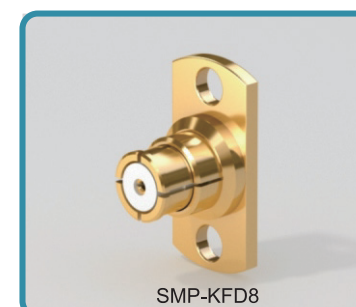
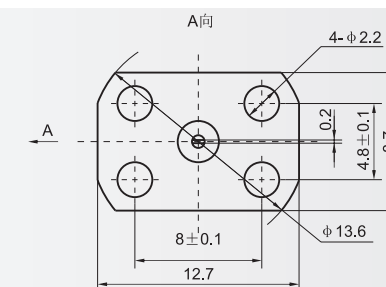
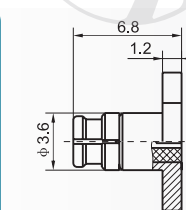
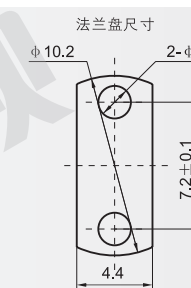
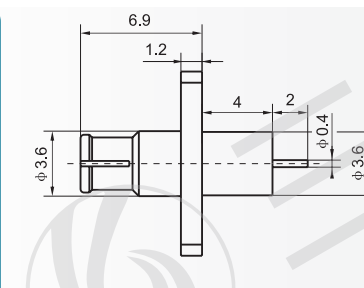
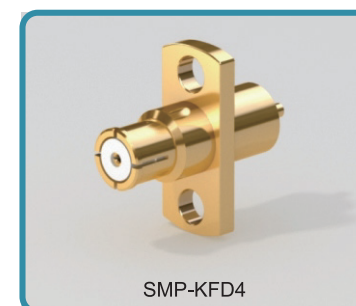
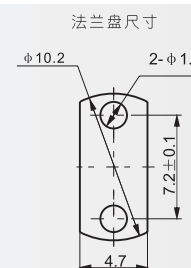
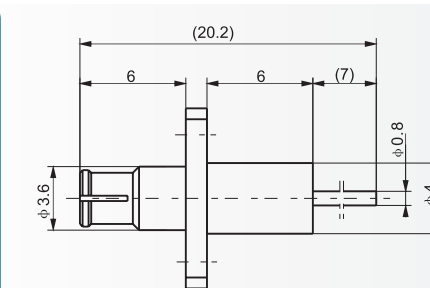
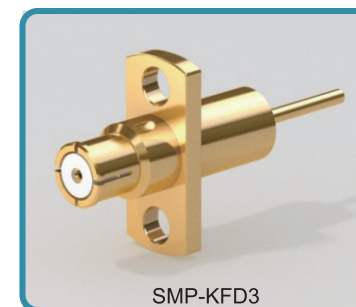
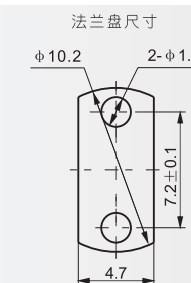
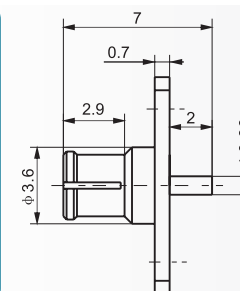
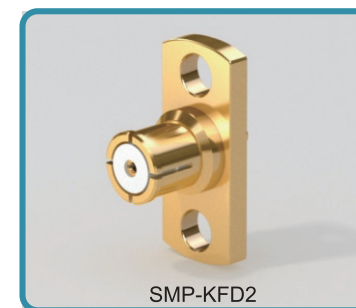
插针接触件连接器界面(光孔)

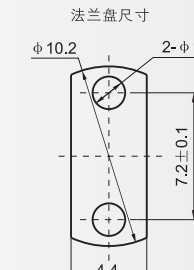
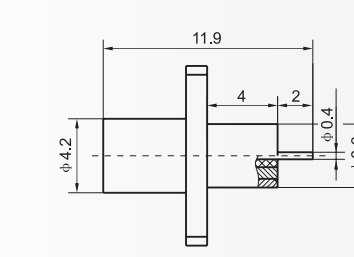
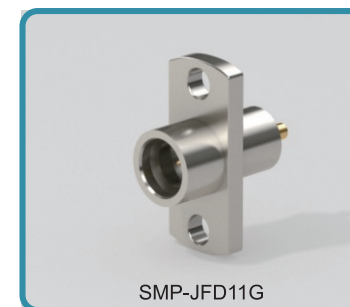
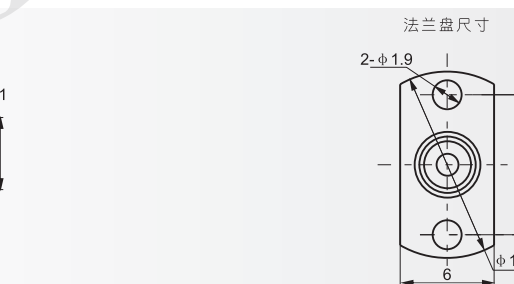
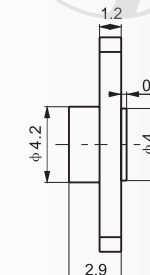
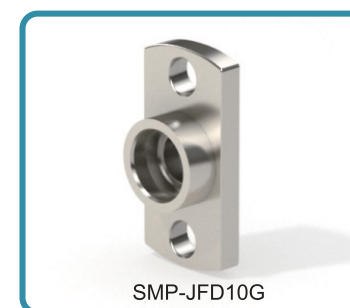
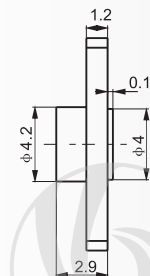
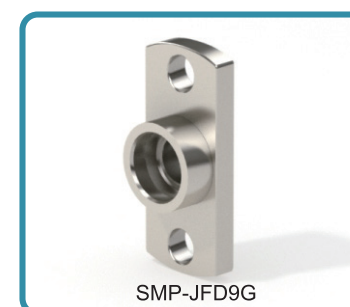
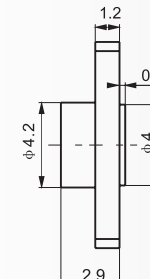
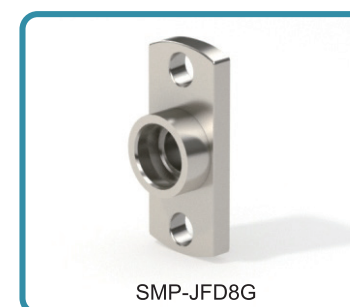
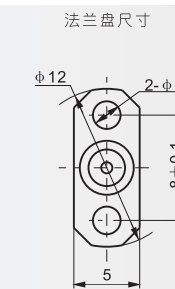
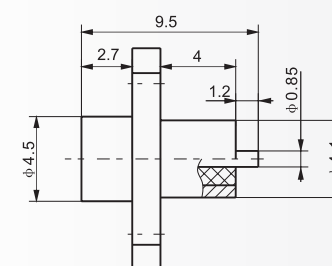
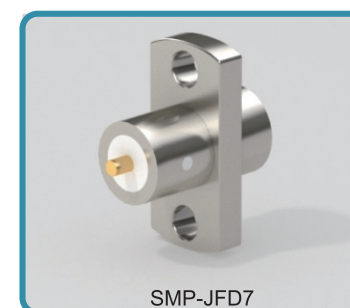
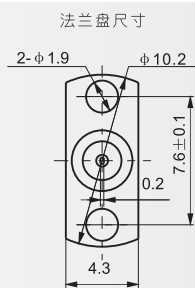
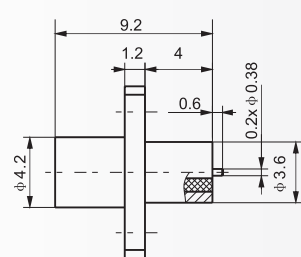
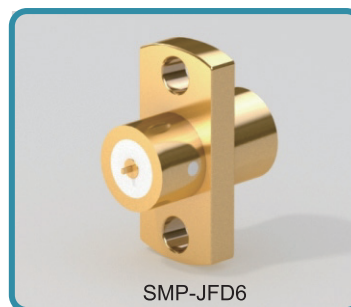
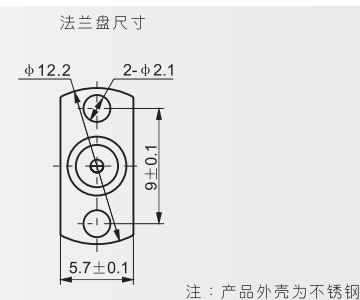
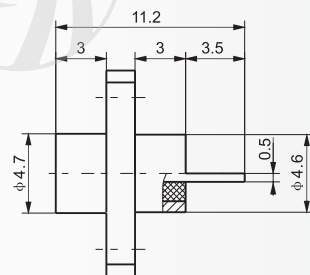
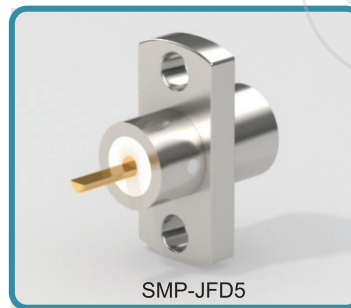
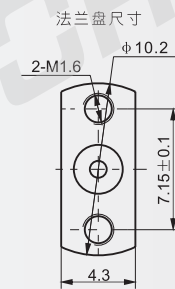
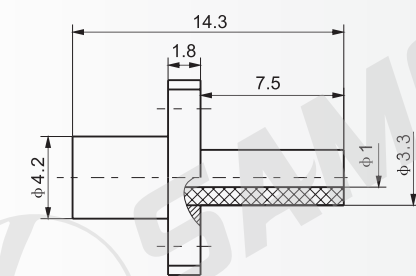
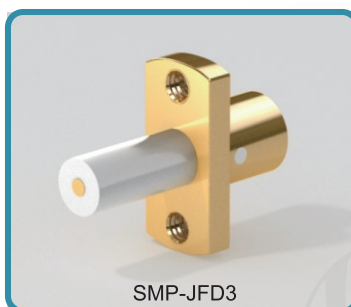
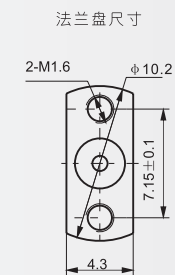
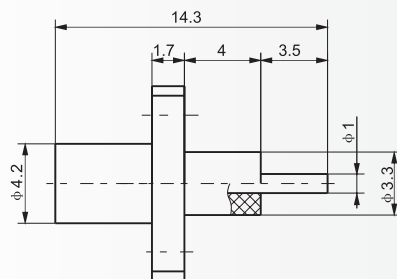
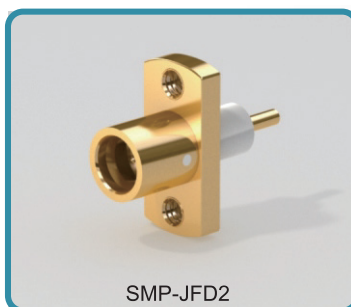
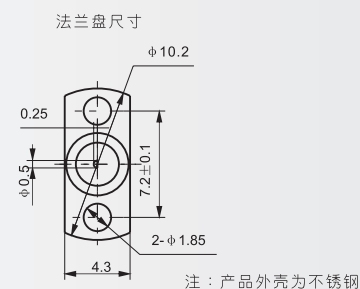
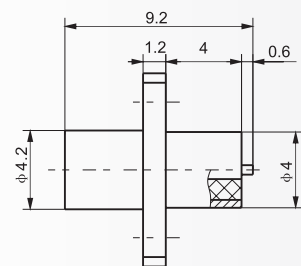
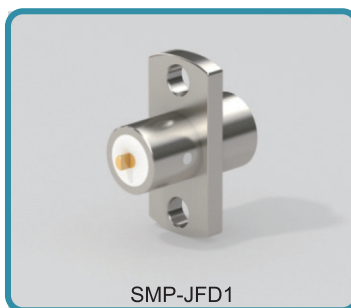
Symbol	Min(mm)	Max(mm)	Note
A	3.13	3.23	
B	2.74	2.84	
E	1.39	1.45	
F	1.14	1.4	
G	0.35	0.41	
J	3.53	3.69	
K	0.85	0.94	
M	0.08		
γ	30		参考
β	40	50	

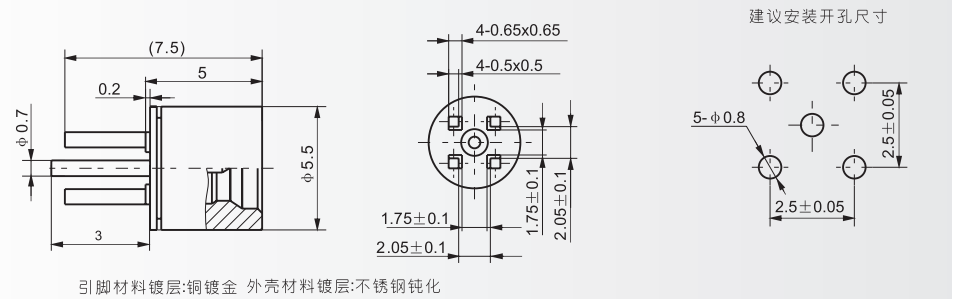
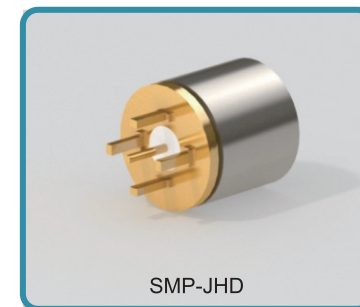
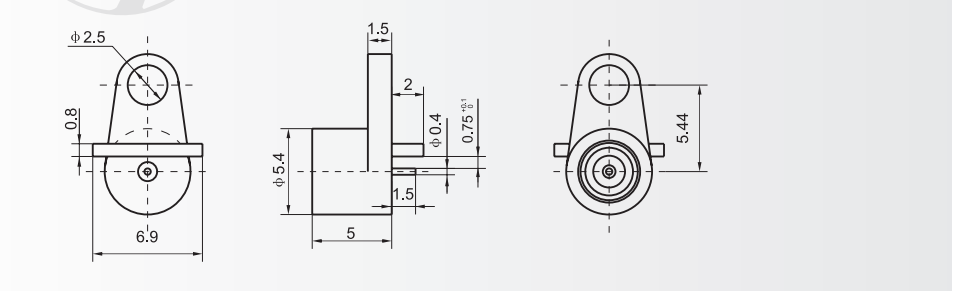
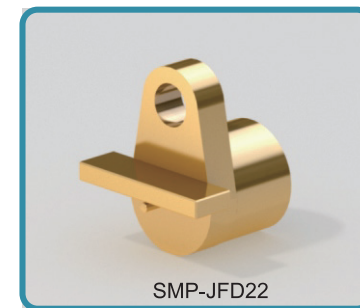
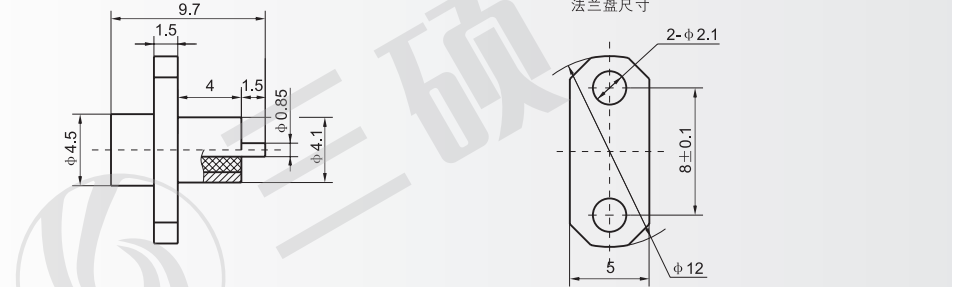
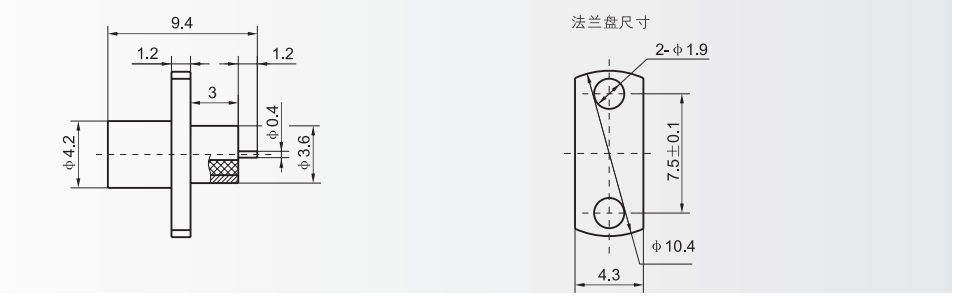
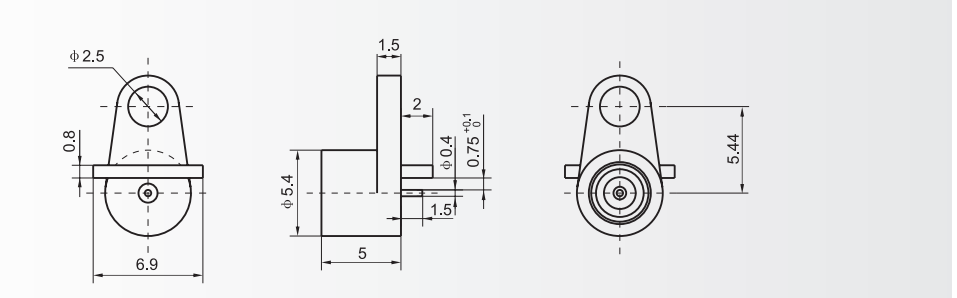
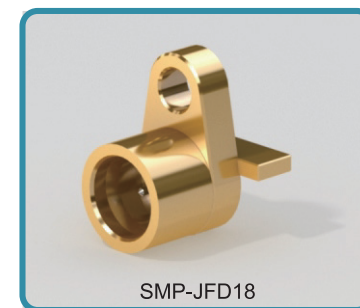
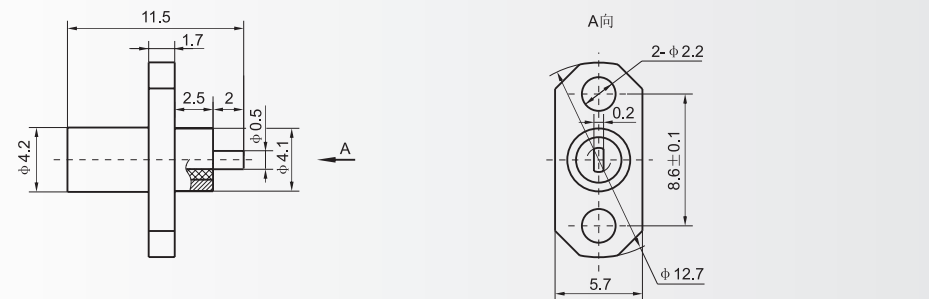
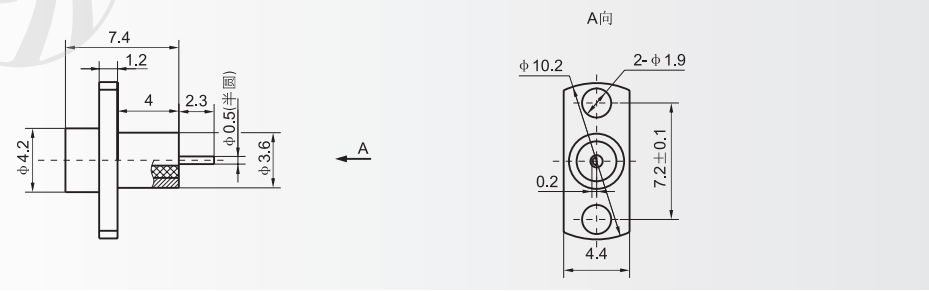
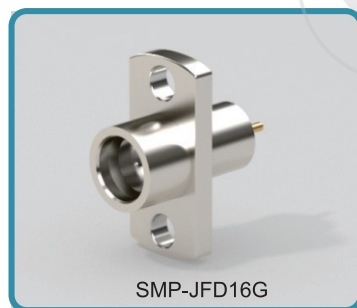
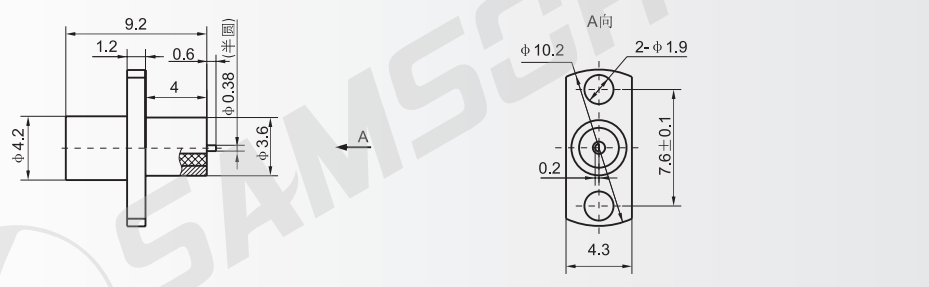
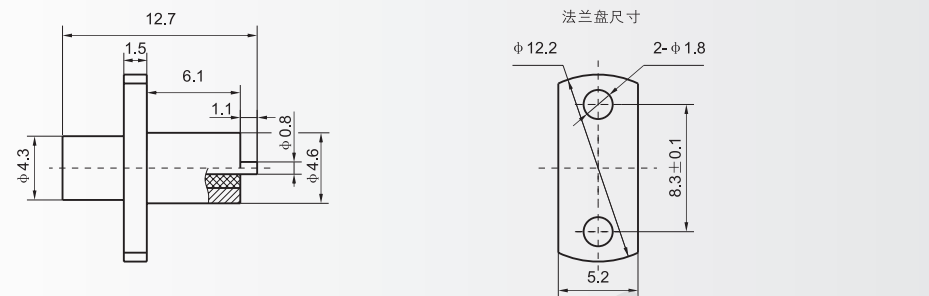
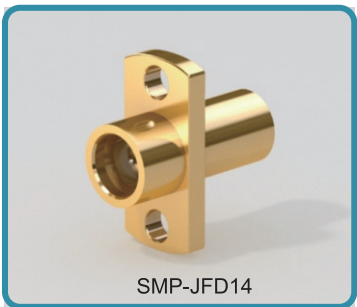
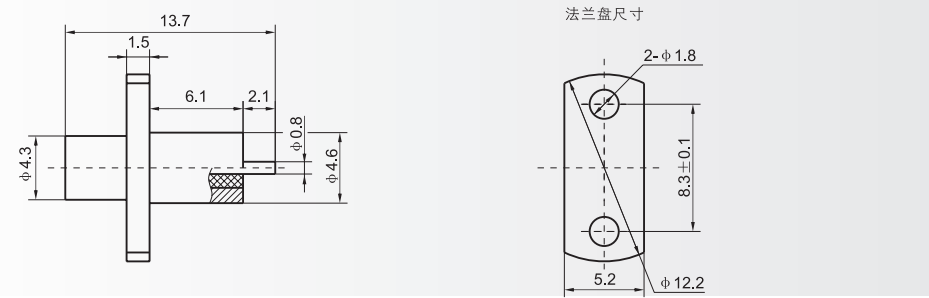
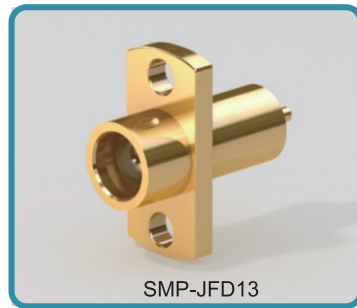
插针接触件连接器界面

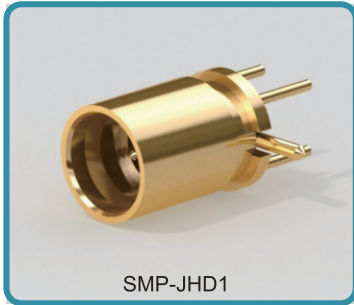
SMP系列插针接触件连接器界面(带制动)

Symbol	Min(mm)	Max(mm)	Note
A	3.13	3.23	
B	2.74	2.84	
C	5.84	6.1	
D	5.33	5.59	
E	1.09	1.19	
F	1.14	1.4	
G	0.35	0.41	
β	45		参考

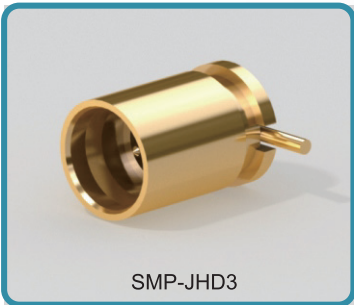
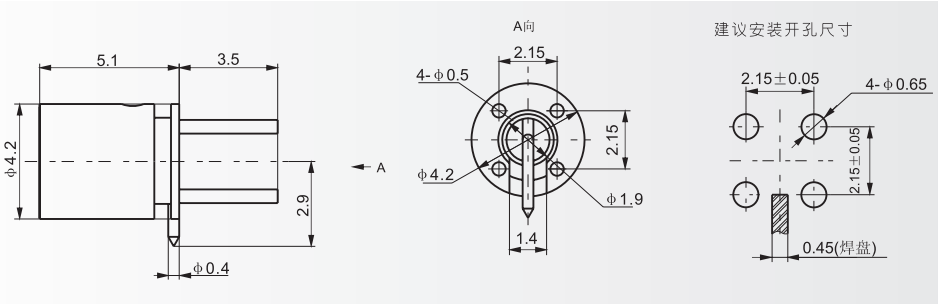




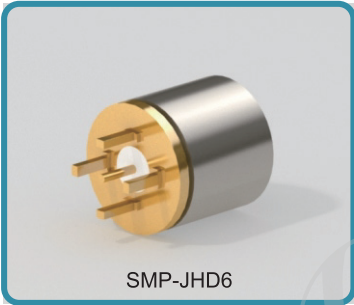
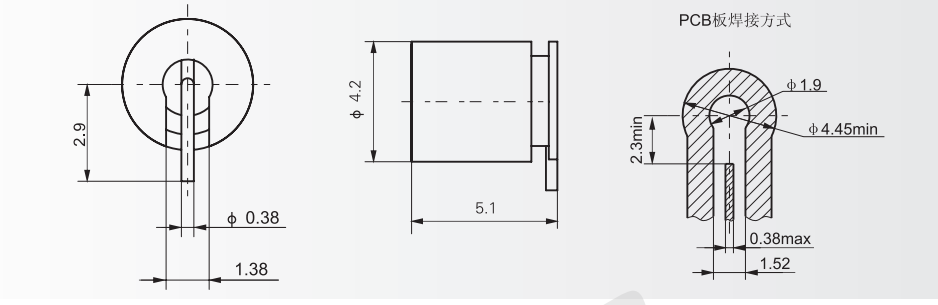




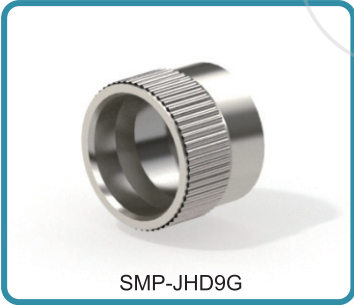
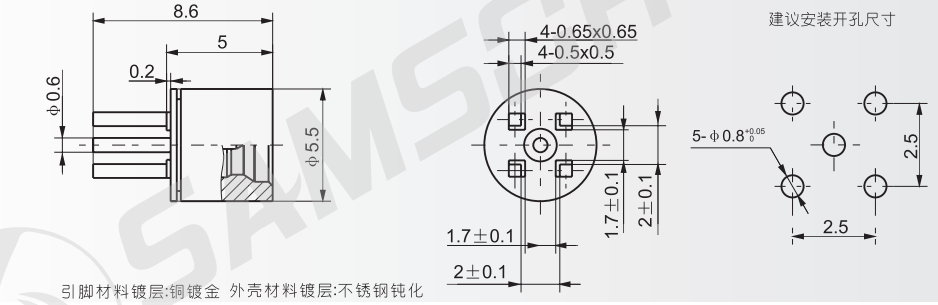
SMP-JHD1



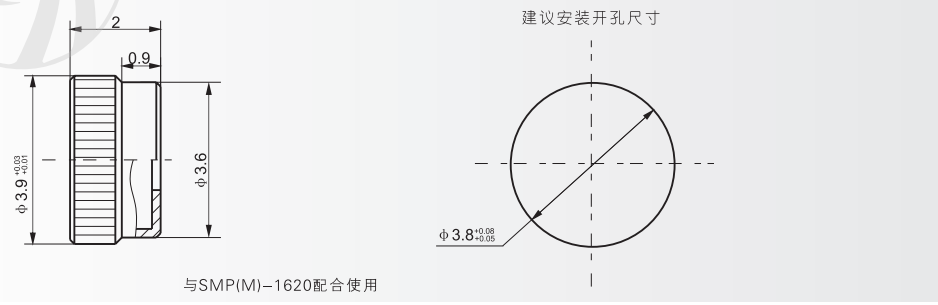
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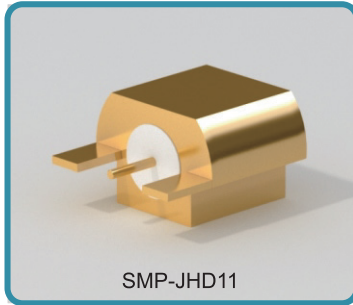
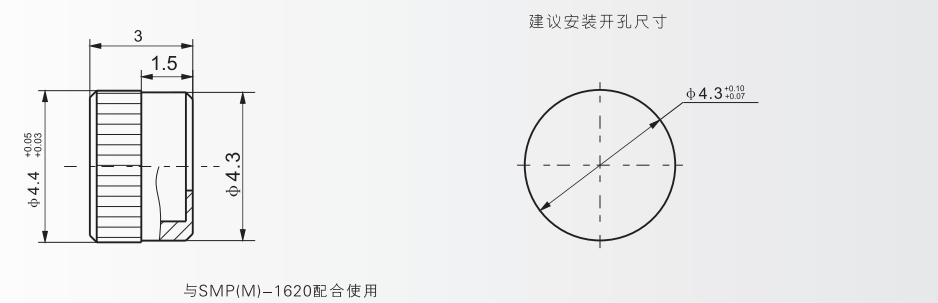
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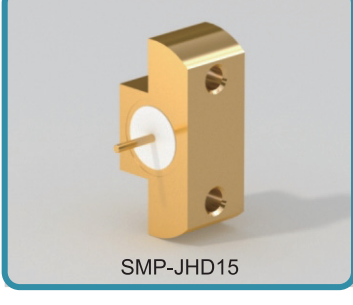
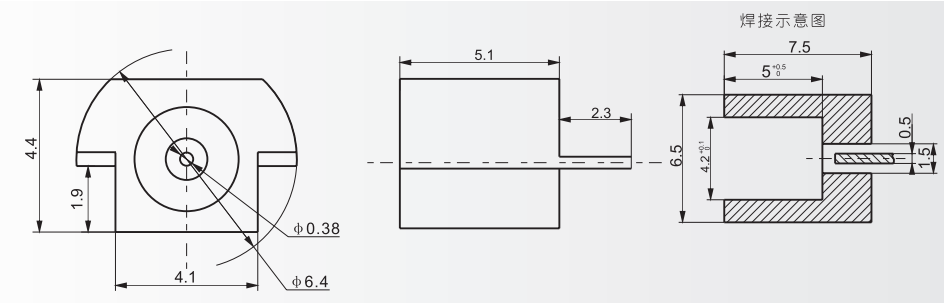
SMP-JHD9G



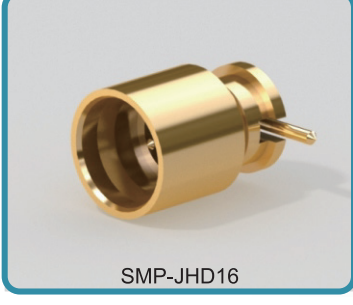
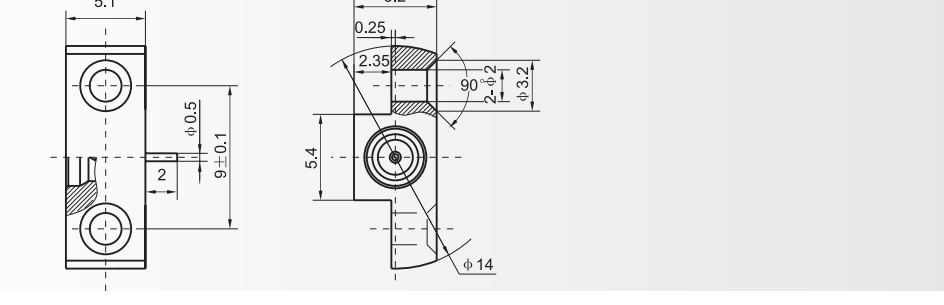
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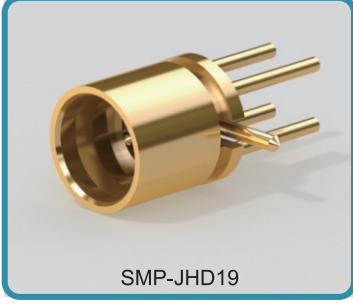
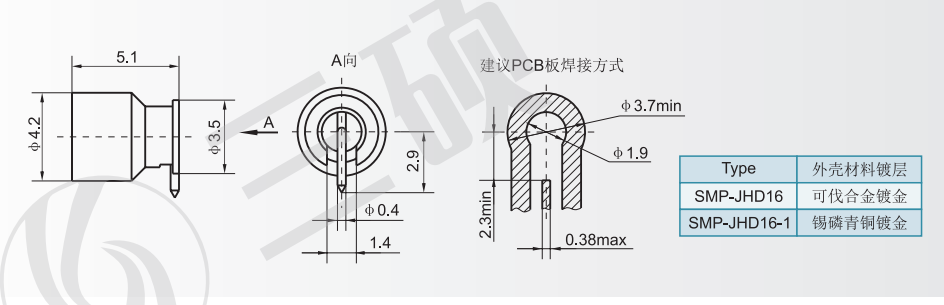
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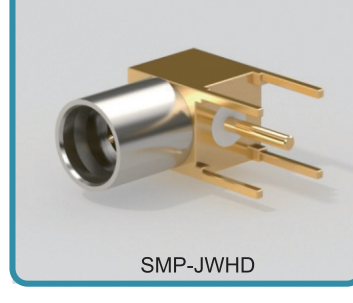
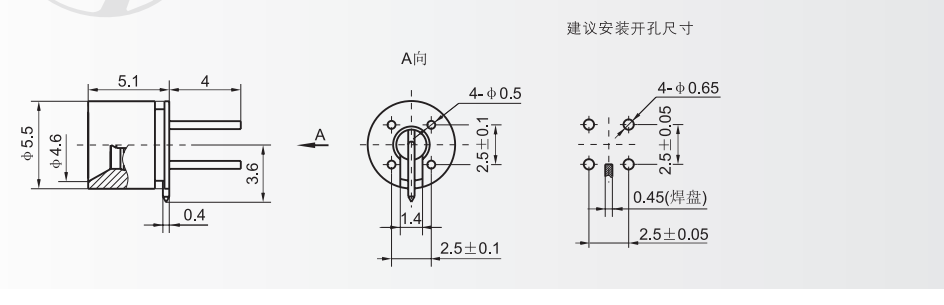
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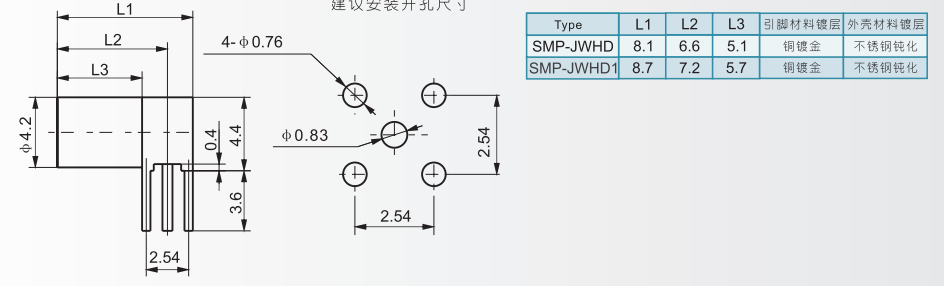
SMP-JHD16

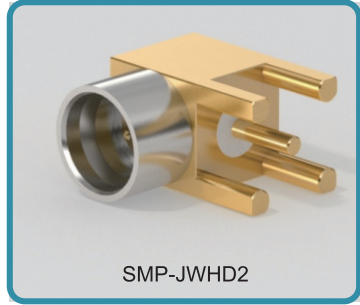


SMP-JHD19

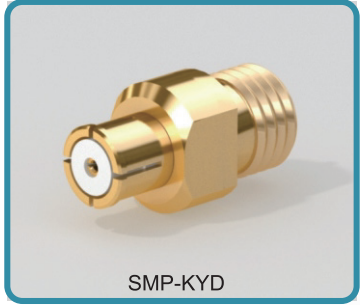
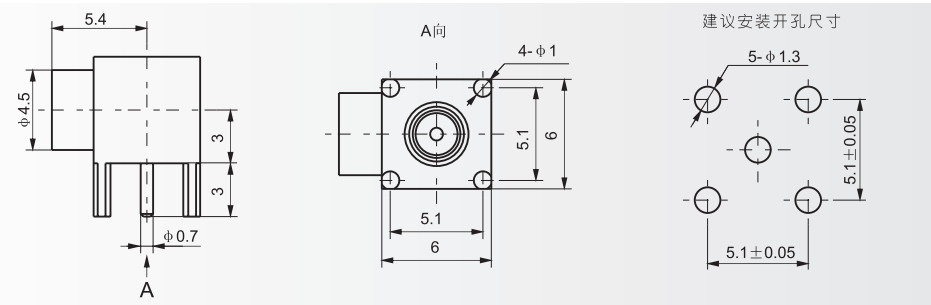


SMP-JWHD

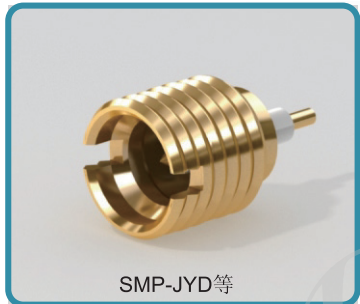
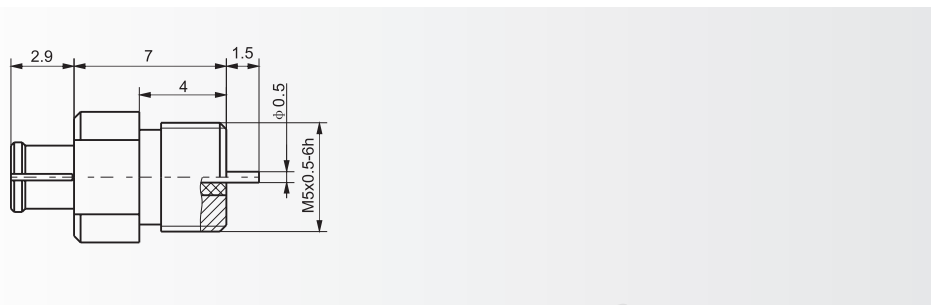




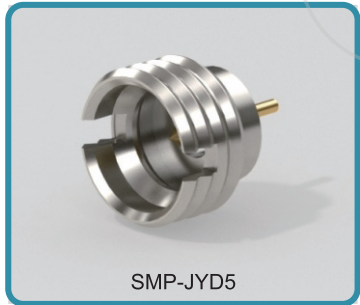
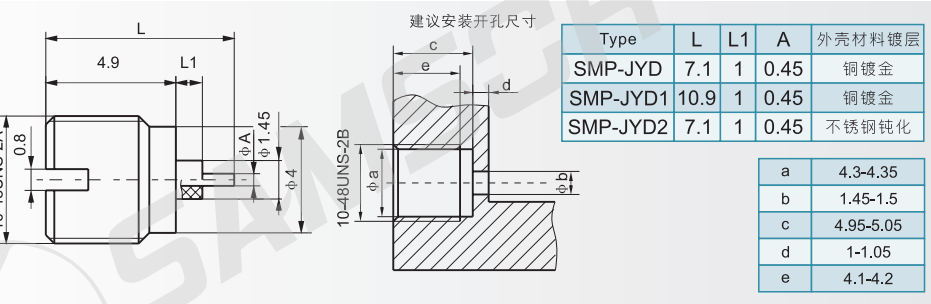
SMP-JWHD2



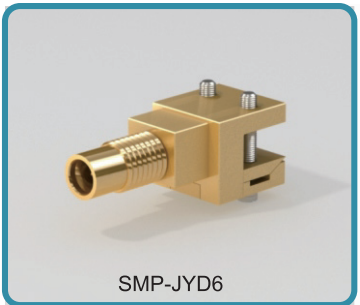
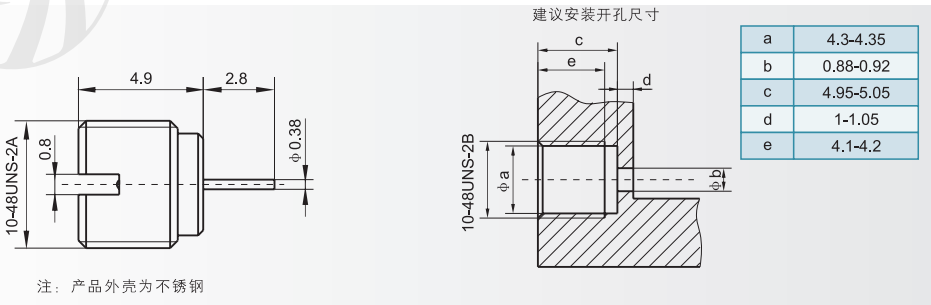
SMP-KYD



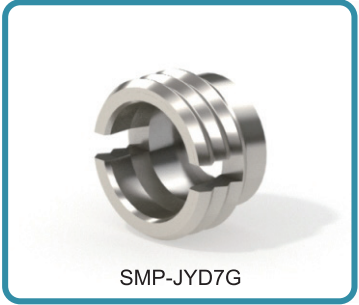
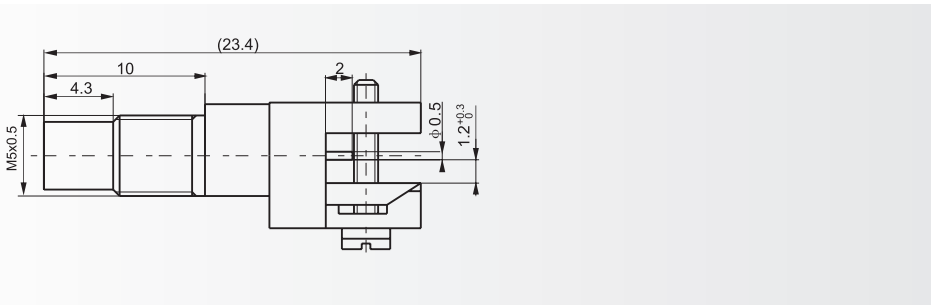
SMP-JYD等



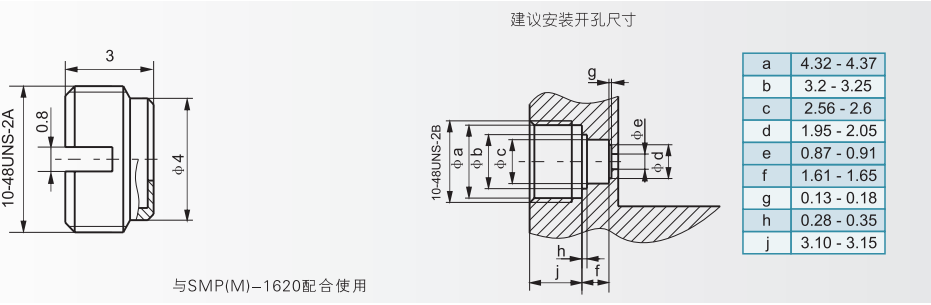
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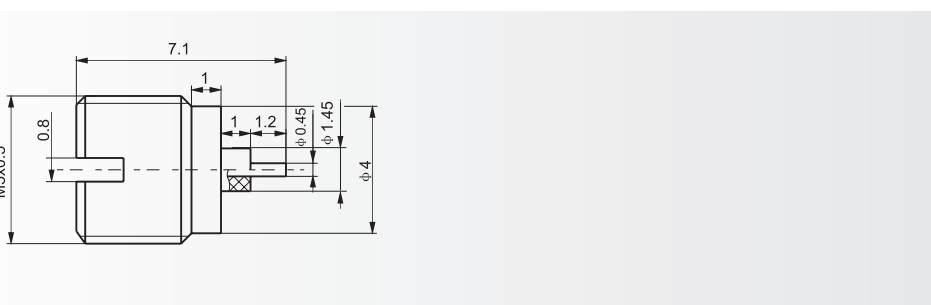
SMP-JYD6



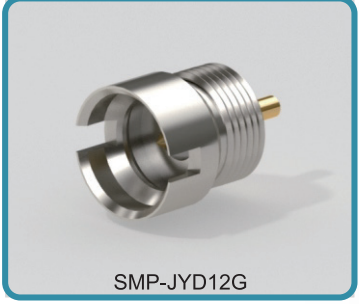
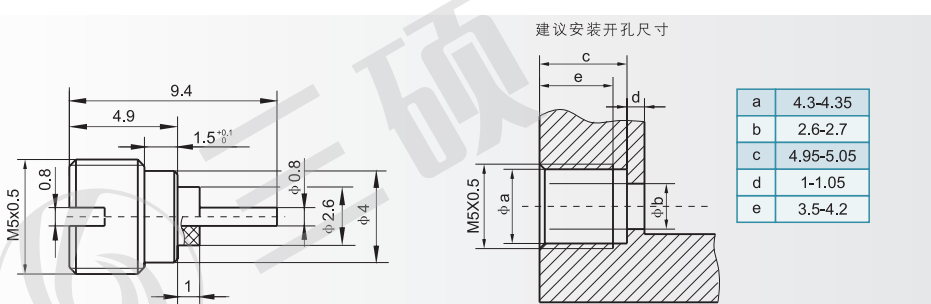
SMP-JYD7G



SMP-JYD8G



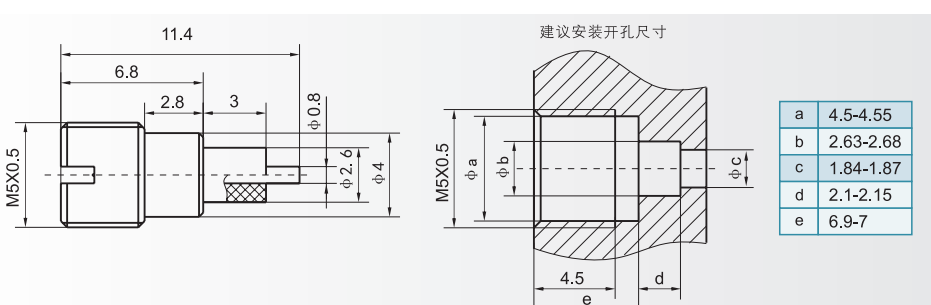
SMP-JYD9G



SMP-JYD12G

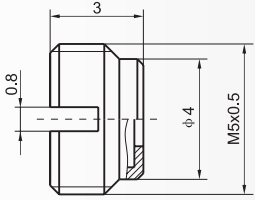


SMP-JYD17G

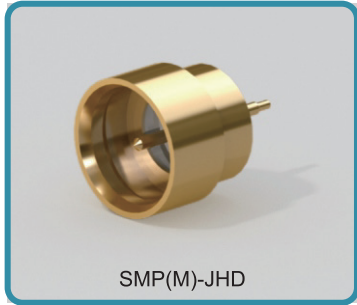




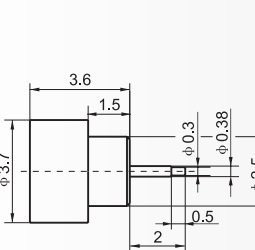
SMP-JYD18G



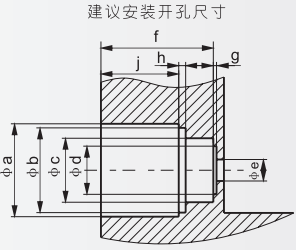
与SMP(M)-1620配合使用



SMP(M)-JHD

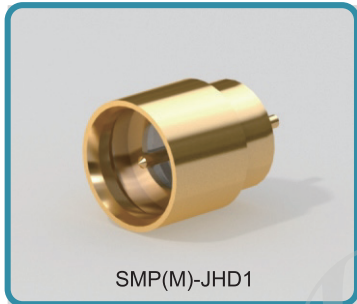


漏率不大于 $1.013 \times 10^{-3} \text{ Pa} \cdot \text{cm}^3/\text{s}$

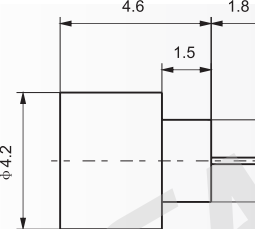


a	3.76-3.80
b	3.45-3.55
c	2.60-2.64
d	1.95-2.05
e	0.87-0.91
f	4.75-4.8
g	0.13-0.18
h	0.28-0.38
j	3.35-3.4

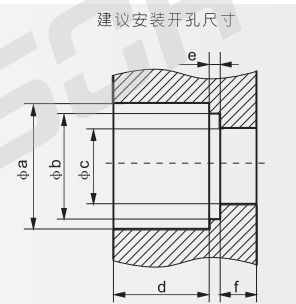
建议安装开孔尺寸



SMP(M)-JHD1

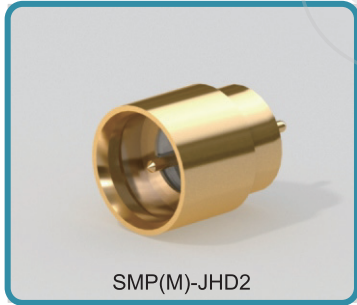


漏率不大于 $1.013 \times 10^{-3} \text{ Pa} \cdot \text{cm}^3/\text{s}$

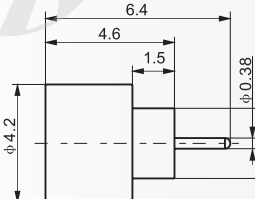


a	4.25-4.3
b	3.45-3.55
c	2.6-2.65
d	3.15-3.2
e	0.28-0.38
f	1.55-1.6

建议安装开孔尺寸

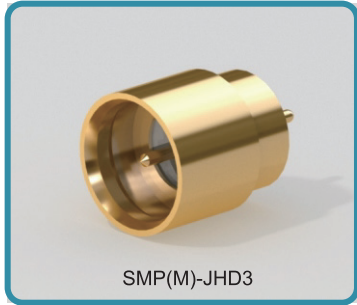


SMP(M)-JHD2

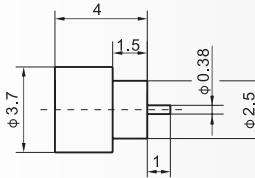


漏率不大于 $1.013 \times 10^{-3} \text{ Pa} \cdot \text{cm}^3/\text{s}$

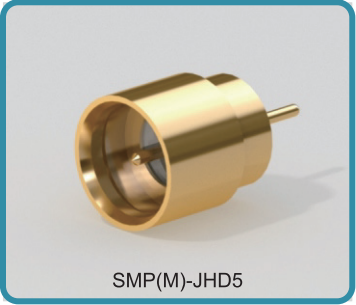
建议安装开孔尺寸同SMP(M)-JHD1



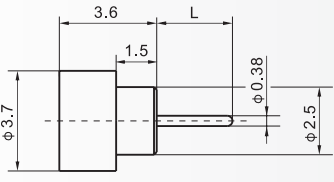
SMP(M)-JHD3



建议安装开孔尺寸同 SMP(M)-JHD

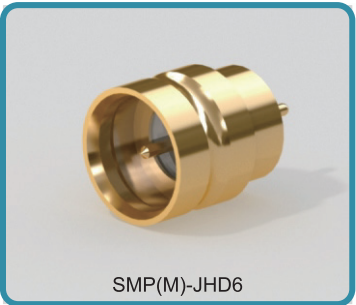


SMP(M)-JHD5

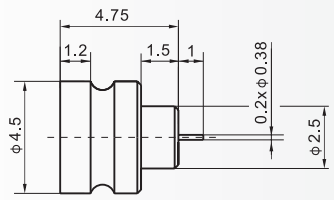


建议安装开孔尺寸同 SMP(M)-JHD

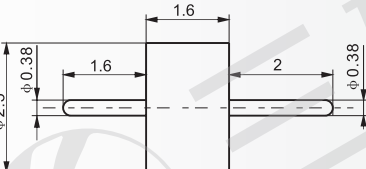
Type	L
SMP(M)JHD5	2.8
SMP(M)JHD8	1
SMP(M)JHD9	4



SMP(M)-JHD6

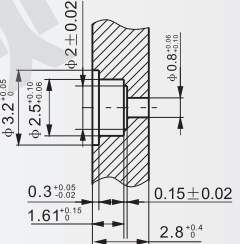


SMP(M)-1620

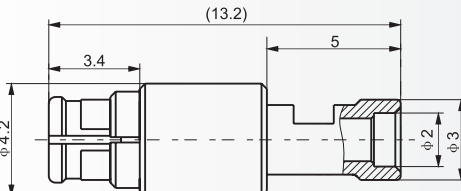


漏率不大于 $1.013 \times 10^{-3} \text{ Pa} \cdot \text{cm}^3/\text{s}$

建议安装开孔尺寸



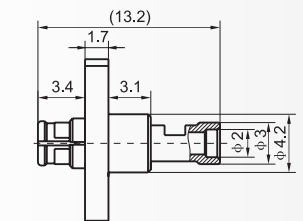
SMP-K2



配接电缆型号: SFF-50-1

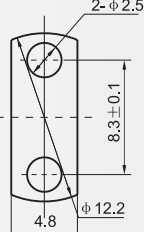


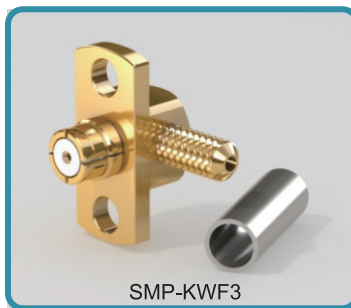
SMP-KF2



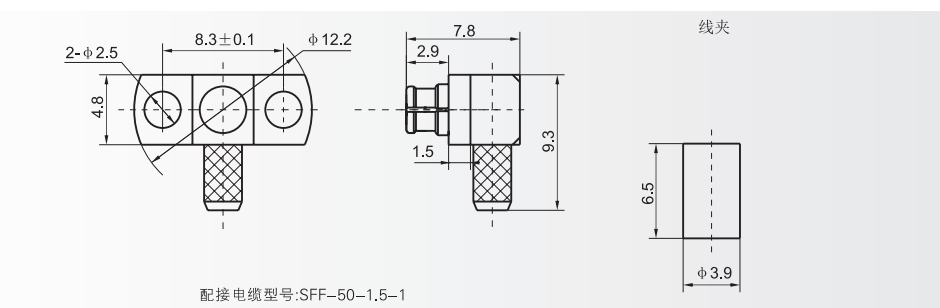
配接电缆型号: SFF-50-1

法兰盘尺寸

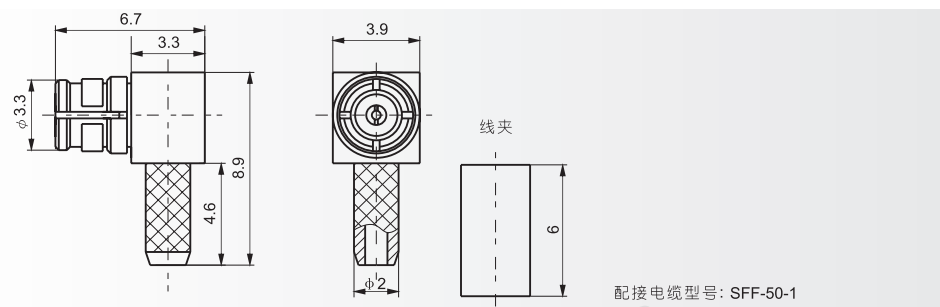




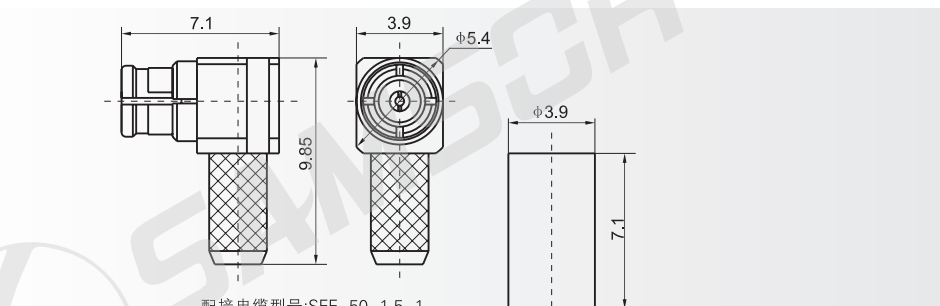
SMP-KWF3



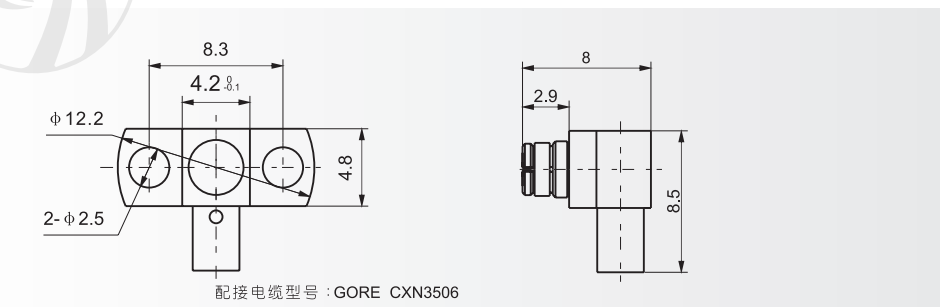
SMP-KW2



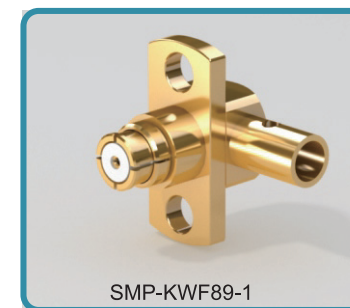
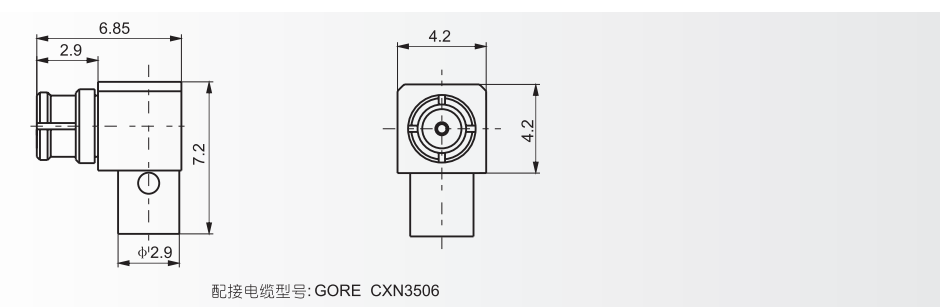
SMP-KW3



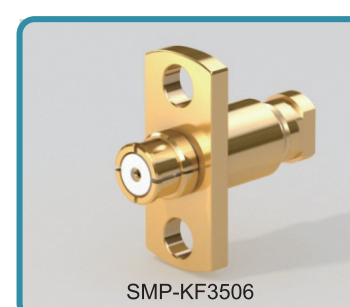
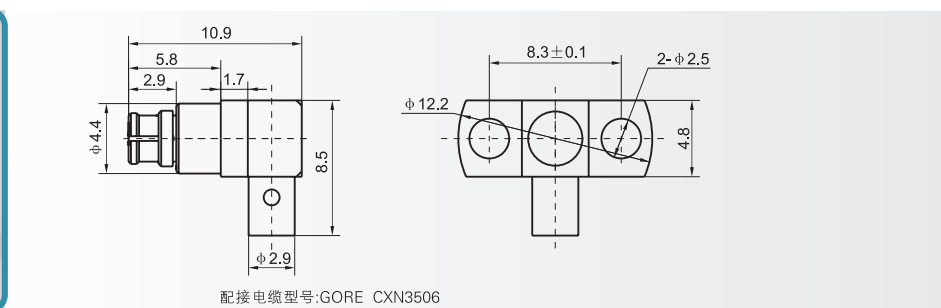
SMP-KWF3506



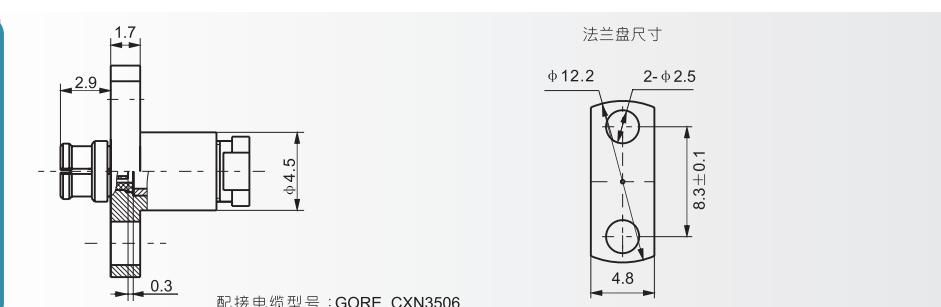
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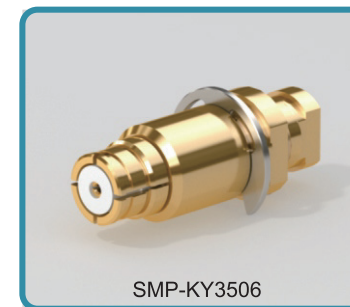
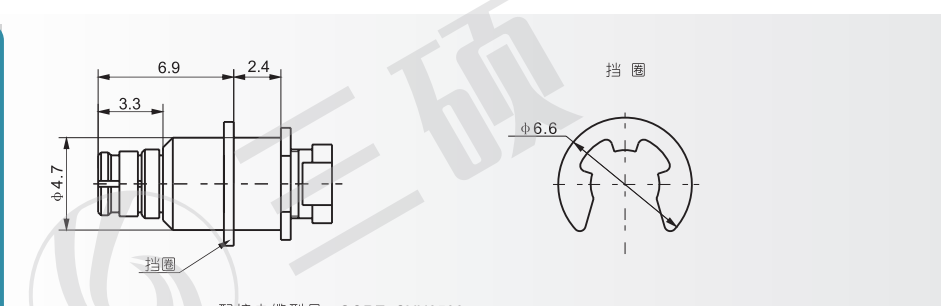
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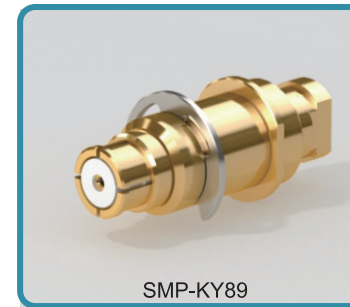
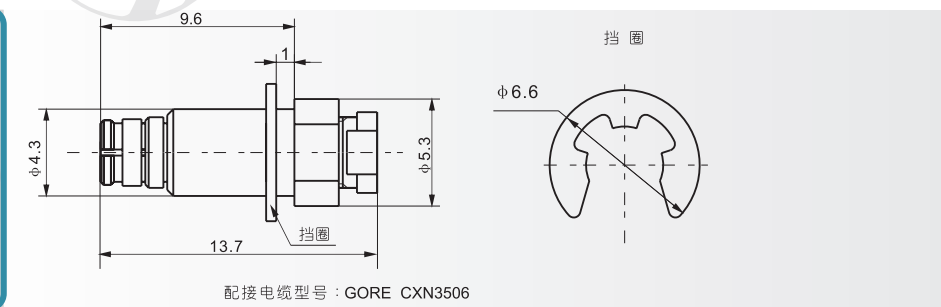
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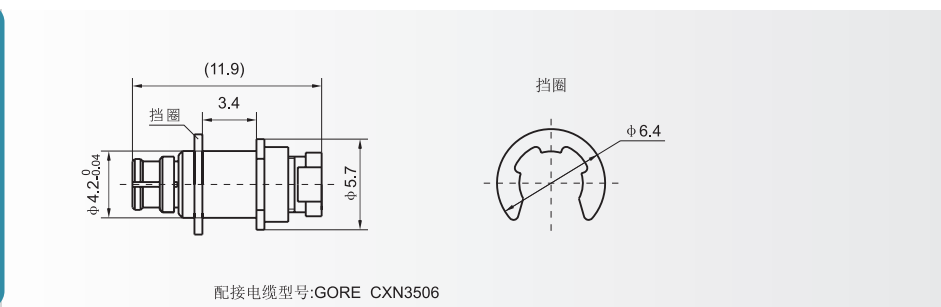
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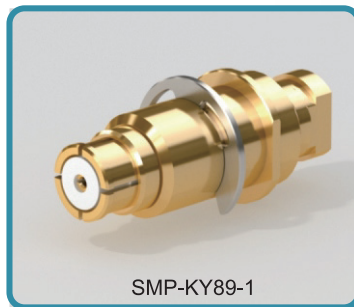


SMP-KY3506

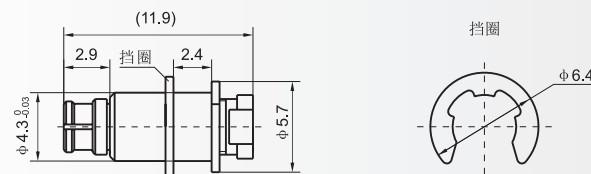


SMP-KY89





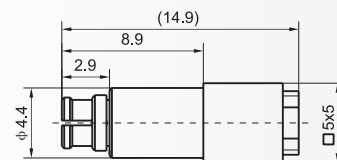
SMP-KY89-1



配接电缆型号:GORE CXN3506



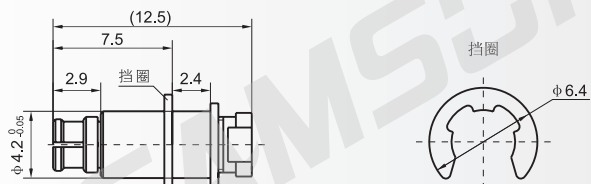
SMP-KY89-2



配接电缆型号:GORE CXN3506



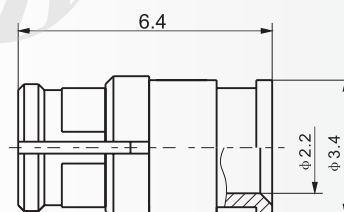
SMP-KY89-3



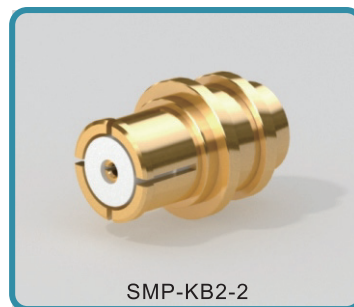
配接电缆型号:GORE CXN3506



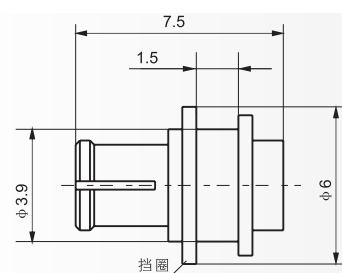
SMP-KB2-1



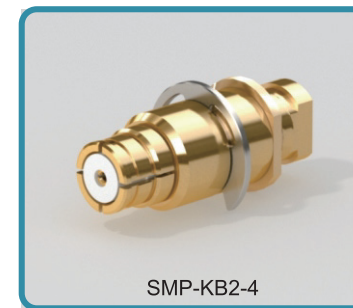
配接电缆型号: SFT-50-2-1



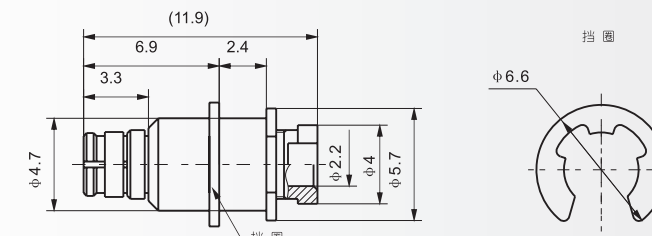
SMP-KB2-2



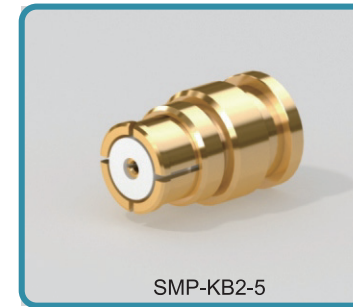
配接电缆型号: SFT-50-2-1



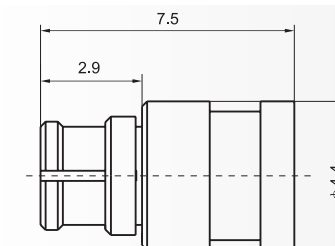
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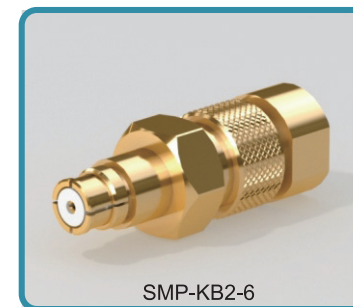
配接电缆型号: SFT-50-2-1



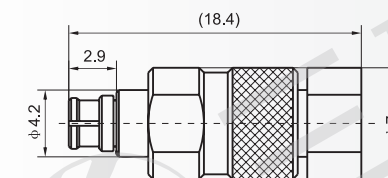
SMP-KB2-5



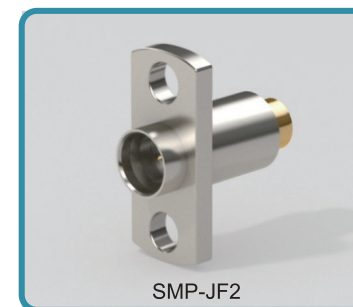
配接电缆型号: SFT-50-2-1



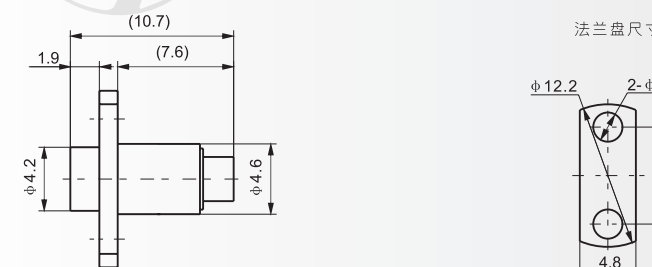
SMP-KB2-6



配接电缆型号:UT85C-LL



SMP-JF2

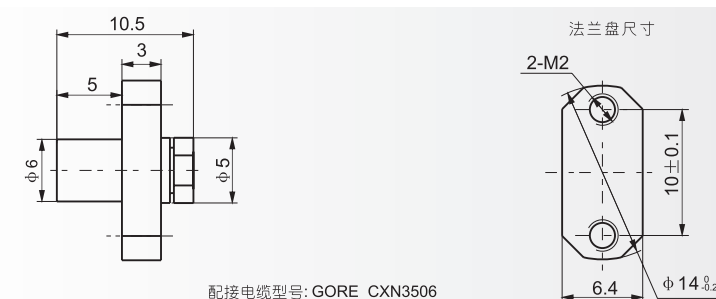


配接电缆型号: SFF-50-1

注: 产品外壳为不锈钢

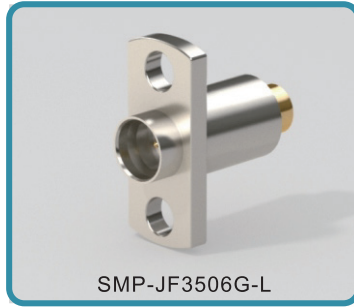


SMP-JF3506-1

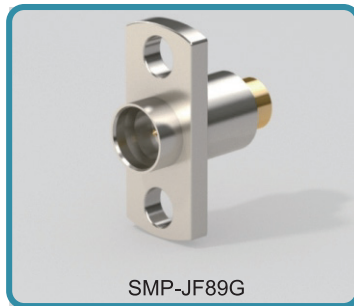
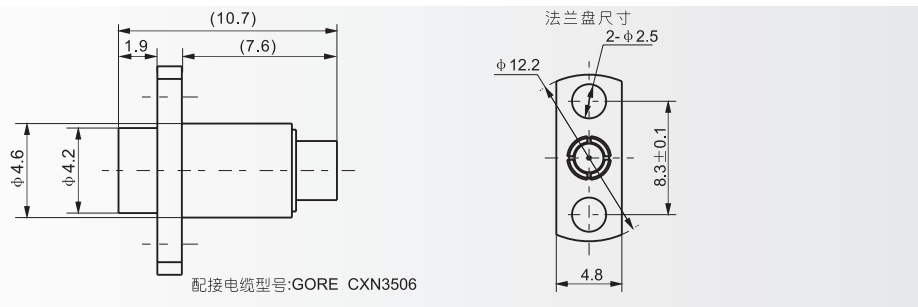


配接电缆型号: GORE CXN3506

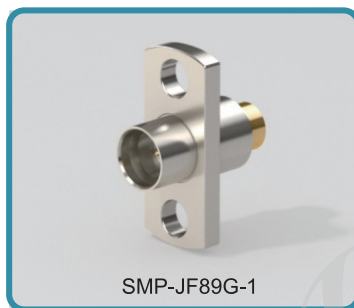
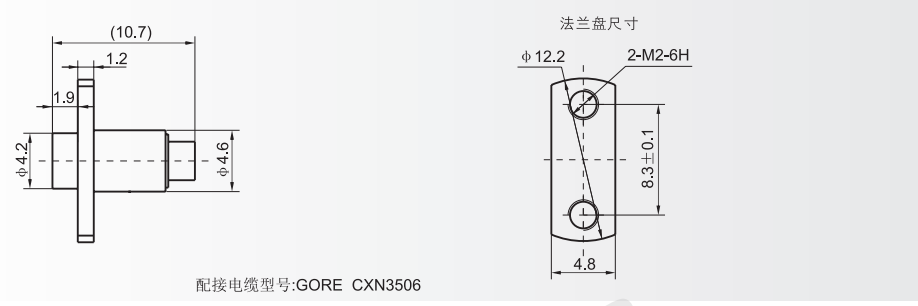
注: 产品外壳为不锈钢



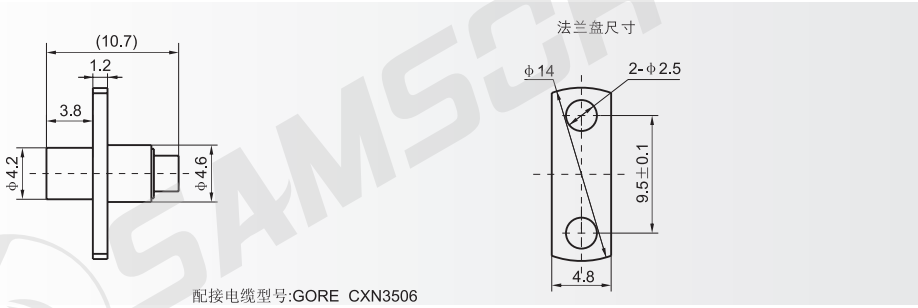
SMP-JF3506G-L



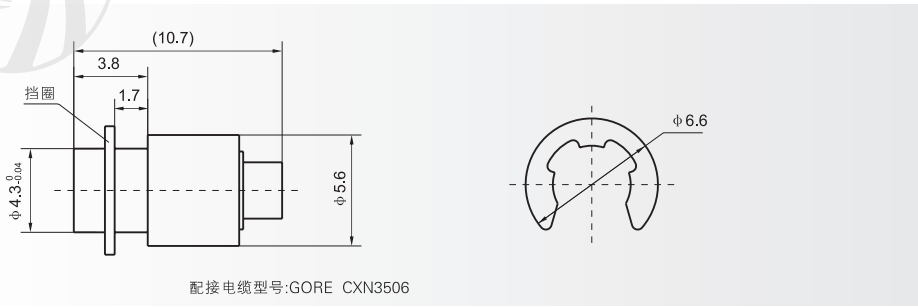
SMP-JF89G



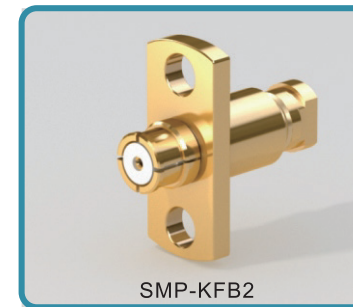
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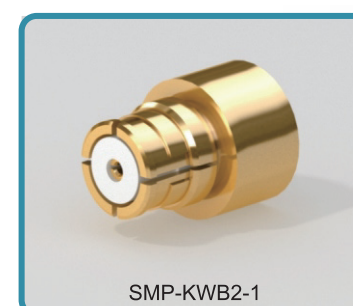
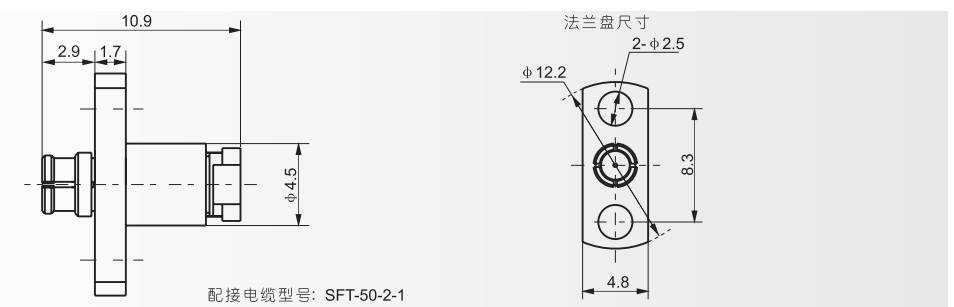
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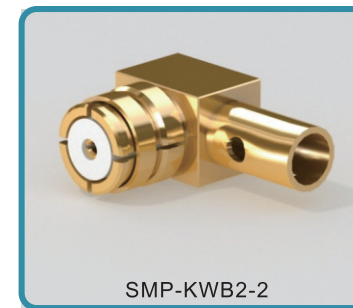
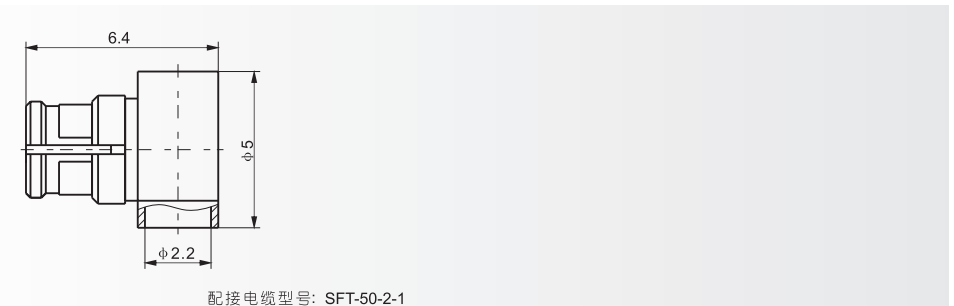
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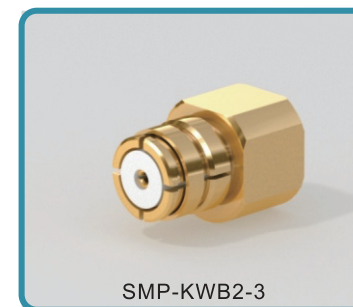
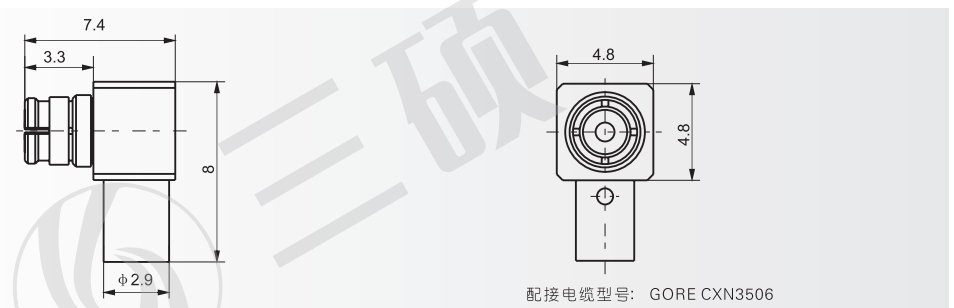
SMP-KFB2



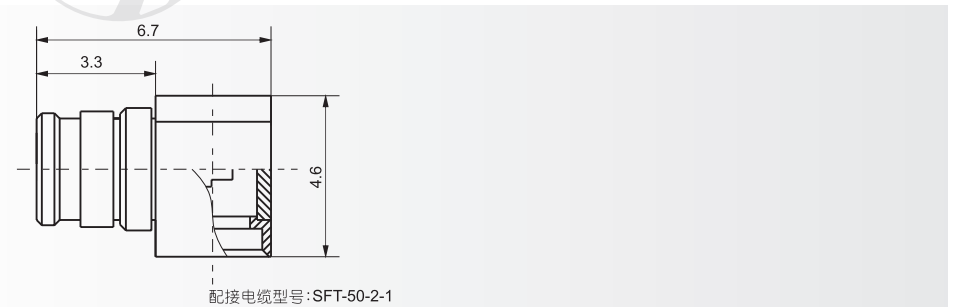
SMP-KWB2-1



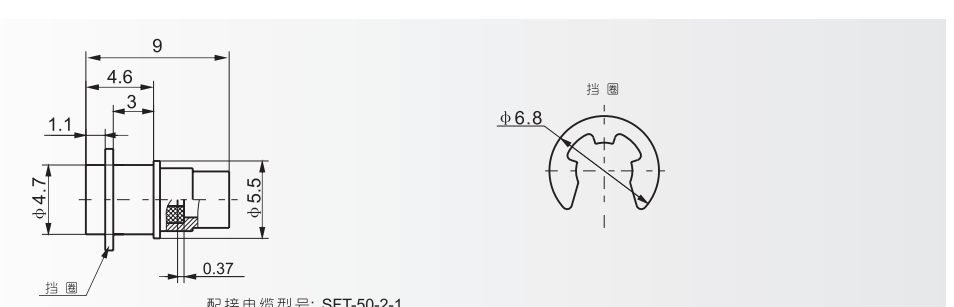
SMP-KWB2-2



SMP-KWB2-3



SMP-JB2-1



SMP-JFB2

建议安装开孔尺寸

配接电缆型号: SFT-50-2-1

注: 产品外壳为不锈钢

SMP-JFB2-2

法兰盘尺寸

配接电缆型号: SFT-50-2-1

注: 产品外壳为不锈钢

SMP-KHD等

Type	L	L1
SMP-KHD	11.5	6.5
SMP-KHD1	14.2	9.2

SMP-KK1等

Type	L
SMP-KK1	6.45
SMP-KK3	10.3
SMP-KK4	8.65
SMP-KK5	11
SMP-KK20	13
SMP-KK26	9.45
SMP-KK34	9.05
SMP-KK35	16.5

SMP-KK6

挡圈

SMP-KK8

挡圈

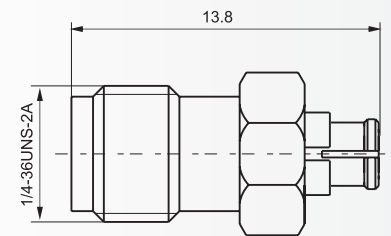
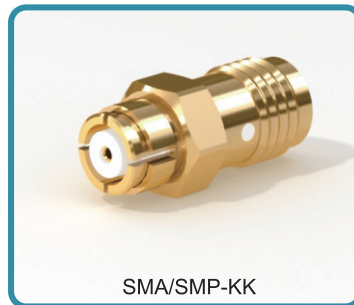
SMP-KK10

SMP-KK11

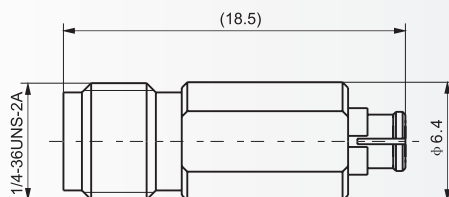
SMP-KK12G

挡圈

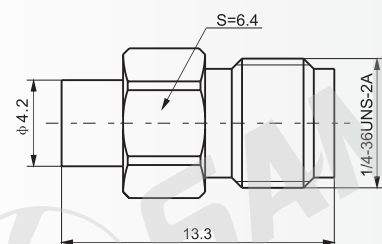
SMA/SMP-KYK



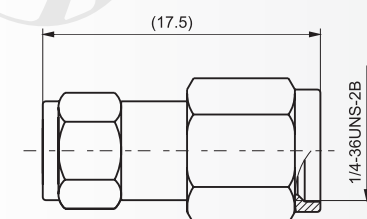
注：产品外壳为不锈钢



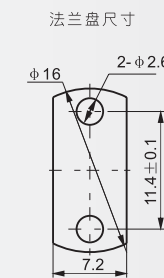
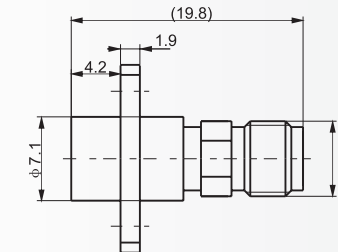
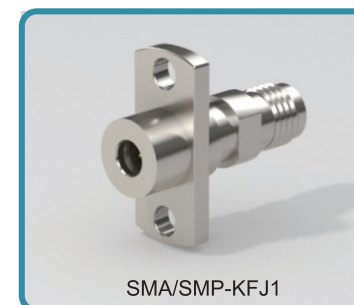
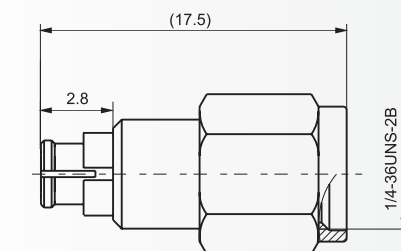
注：产品外壳为不锈钢



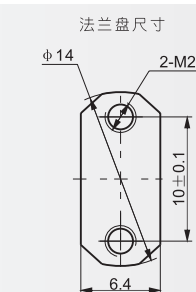
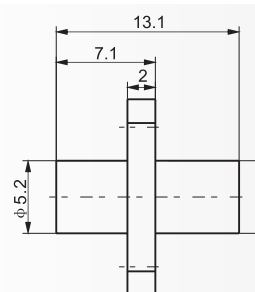
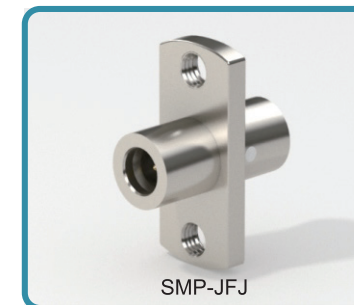
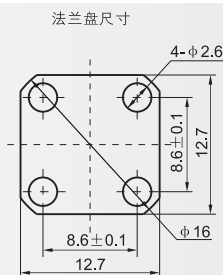
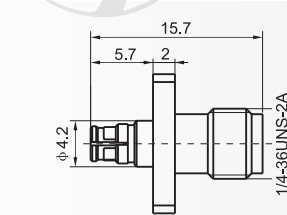
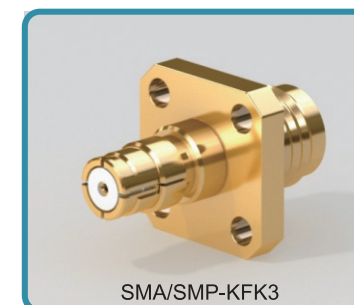
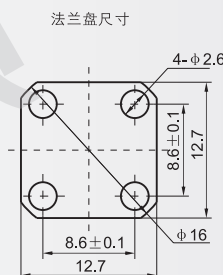
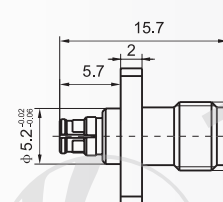
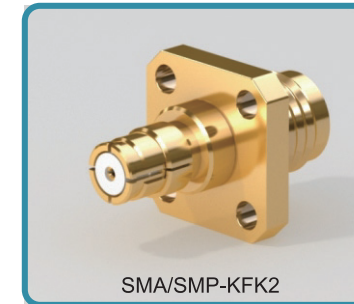
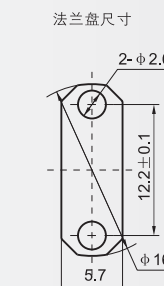
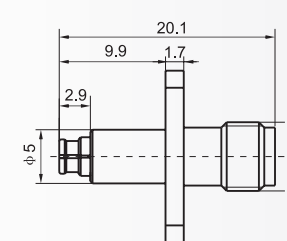
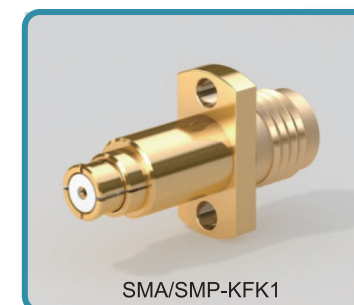
注：产品外壳为不锈钢



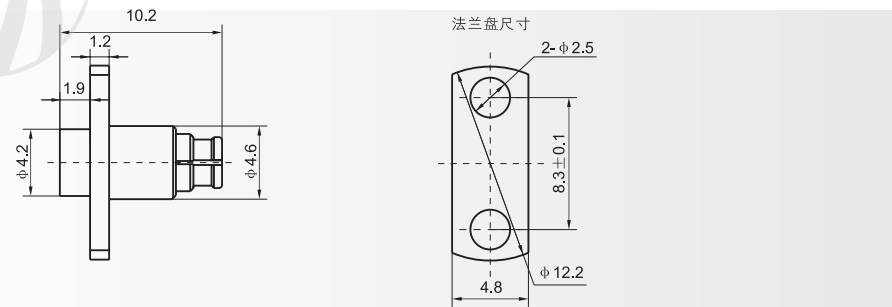
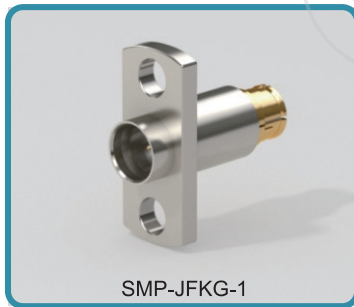
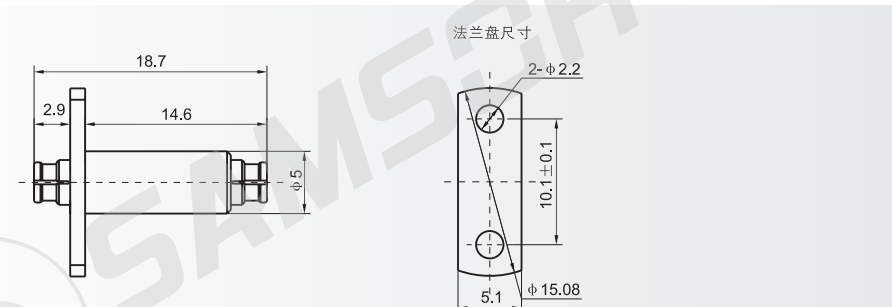
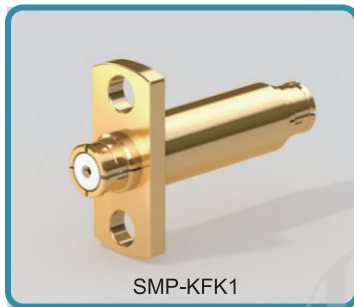
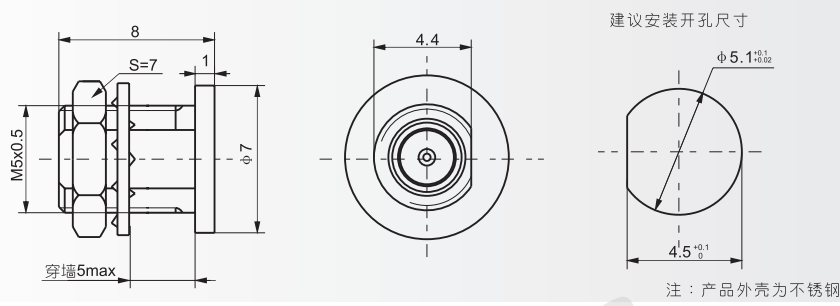
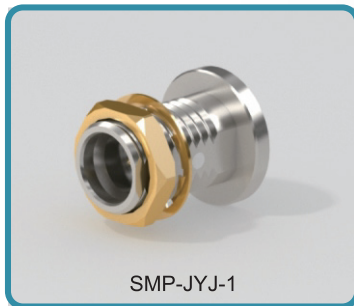
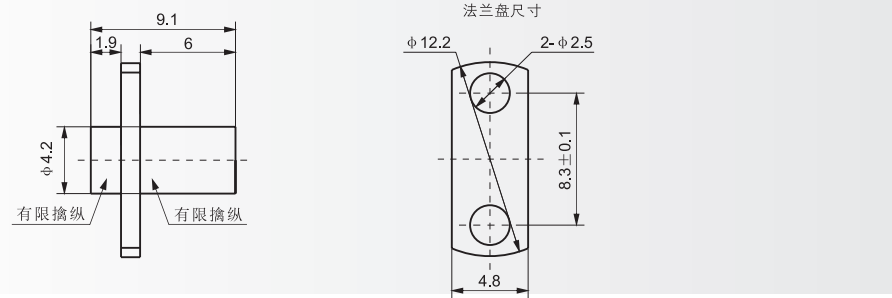
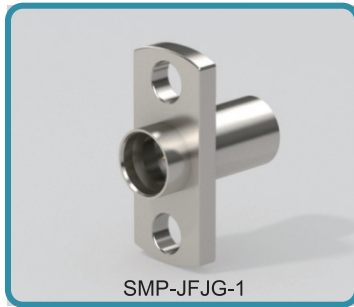
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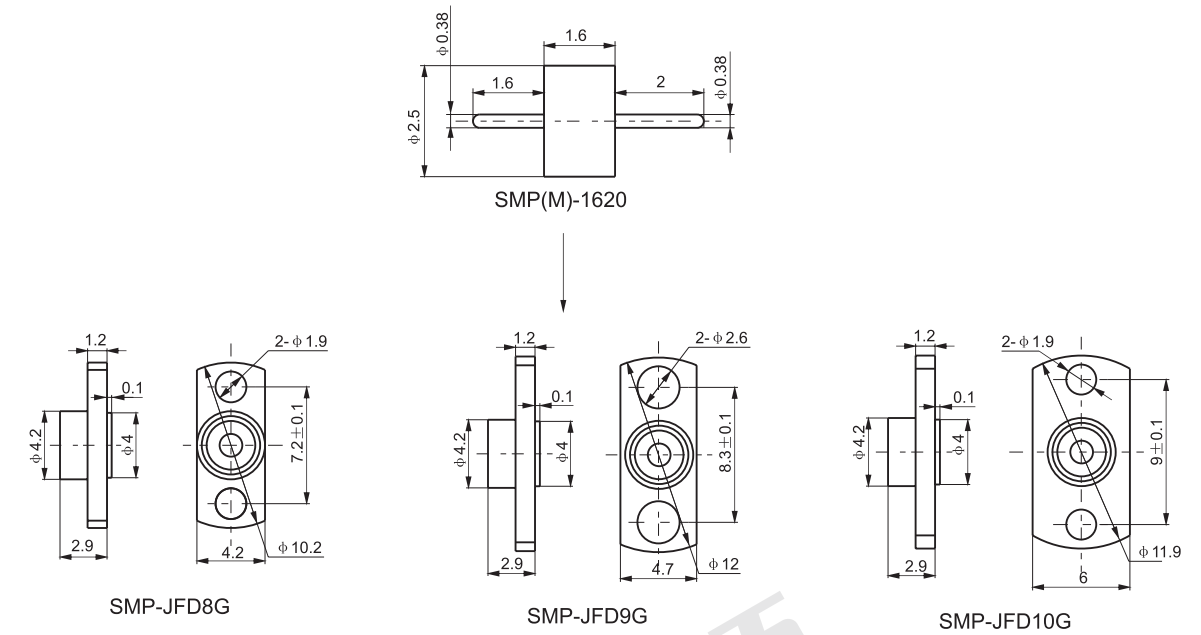
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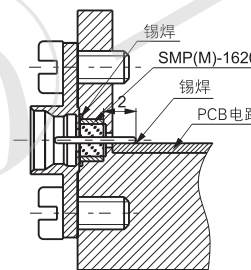
注：产品外壳为不锈钢



与玻璃子SMP(M)-1620组合使用的产品



安装示意图



安装示意图

