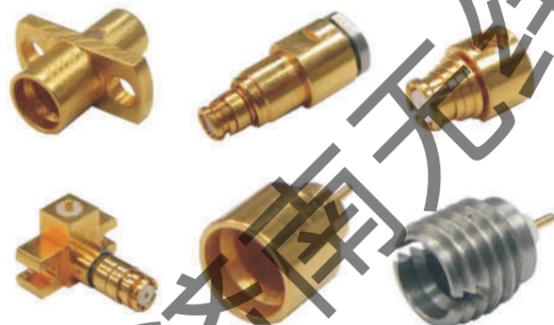
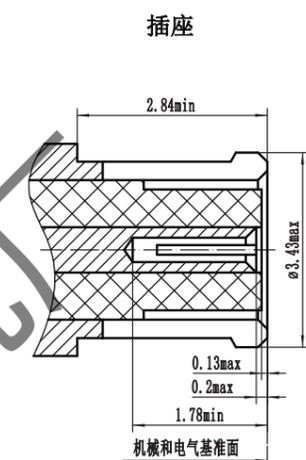
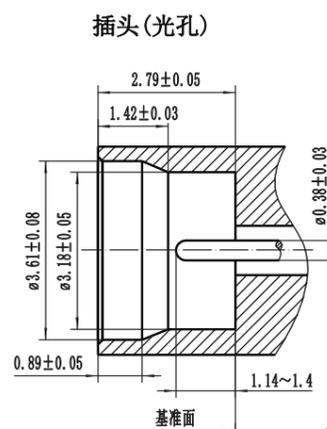
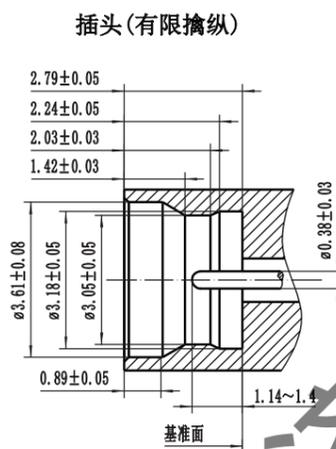
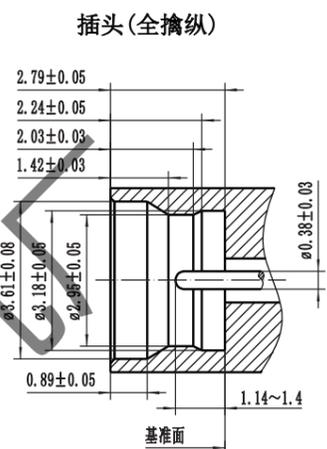


SMP 系列产品整体介绍

SMP系列产品是一种超小型推入式射频同轴连接器，具有体积小、重量轻、插拔迅速、工作频带宽等特点，使用频率达40GHz，其中插头具有全擒纵、有限擒纵和光孔三种界面形式，板间连接成对使用时，多种界面形式能够满足盲配所需的轴向或径向浮动，适用于要求可靠性高模块化密集安装场合。



界面尺寸



产品SMP插头端有三种界面形式，啮合及分离力量分别不同，并对其命名进行了区分，后增加相应的字母，详见下表：

界面形式	产品命名方法	啮合力	分离力
全擒纵	产品主称-F	68N max	22N min
有限擒纵	产品主称-L	45N max	9N min
光孔	产品主称-S	9N max	2.2N min

注：有限擒纵中-L一般省略不写

示例：全擒纵 SMP-JFD-F
有限擒纵 SMP-JFD-L
光孔 SMP-JFD-S

技术特性

特性阻抗	50 Ω		
频率范围	DC~40GHz		
额定电压	170VRMS*		
介质耐压	500VRMS*		
绝缘电阻	≥2000M Ω		
接触电阻	外导体	常规≤2.5m Ω，气密封≤4m Ω	
	内导体	常规≤6m Ω，气密封≤26m Ω	
电压驻波比		DC~18GHz	18~26.5GHz 26.5~40GHz
	直式连接器	≤1.25	≤1.3 ≤1.5
	弯式连接器	≤1.3	
	转接器	≤1.2	≤1.3 ≤1.5
其他	≤1.3		

*海平面最大值

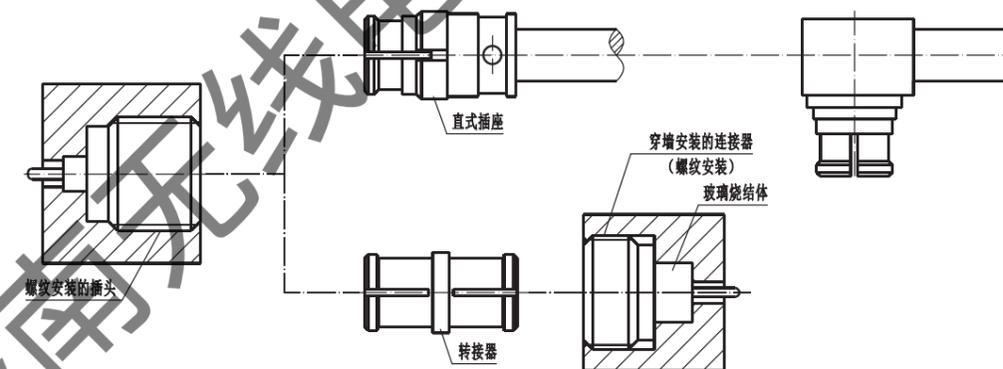
材料及机械特性	内导体	阳头	锡磷青铜	镀金
			阴头	铍青铜
	弹性件		铍青铜	镀金
	壳体及其他金属件		黄铜	镀金
			不锈钢	钝化
	绝缘介质		玻璃烧结/聚四氟乙烯/聚醚酰亚胺	
	气密封产品漏率		1.01×10 ⁻³ Pa·cm ³ /s	

1. 可根据用户要求选择其它材质及镀层规格；
2. 未注公差等级IT13级。

安装简介

SMP产品包含多种直式、弯式插头和插座，插头端具有全擒纵、有限擒纵和光孔三种界面形式，具有穿墙安装、法兰安装和玻璃烧结等多种结构，可满足不同使用条件的要求。归类后，主要有以下两种配合形式：

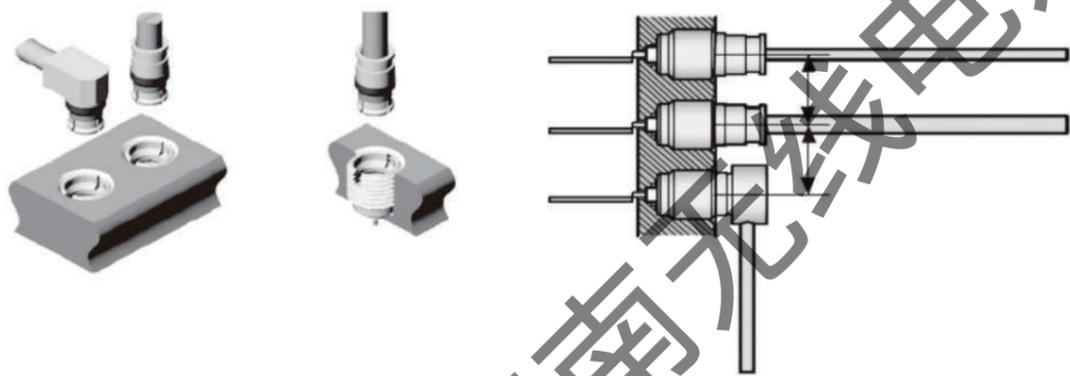
- 1: 直接将直式或弯式插座插入插头或穿墙安装的连接中（螺纹安装或法兰安装）；
- 2: 加入转接器可满足轴向或径向的不对准度的要求；



图一 SMP系列插头插座配合示意图

带电缆连接器的配合形式

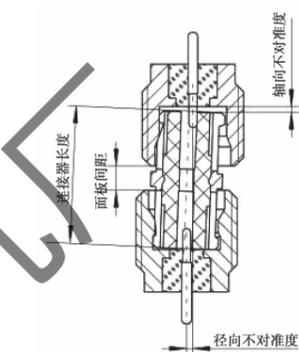
下图为SMP直式、弯式带电缆连接器与模块配合时的应用示意图。左图为未配合时示意图，右图为对插后示意图。



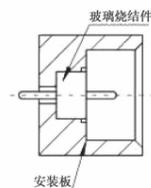
图二 带电缆插座与模块配合示意图

带转接器的配合形式

SMP产品是一种能提供多种界面形式的超小型连接器，广泛地运用于多个密集安装、盲配场合。在两模块之间引入转接器可解决由于两模块安装开孔尺寸误差引起的轴向和径向不对准公差，使两模块达到多个SMP头、座同时配合的要求。

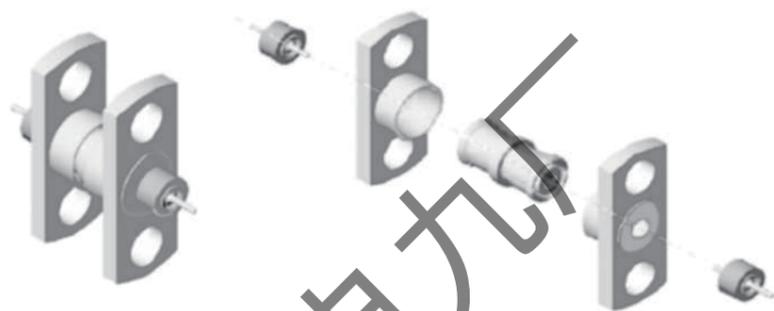


图三 模块之间配转接器

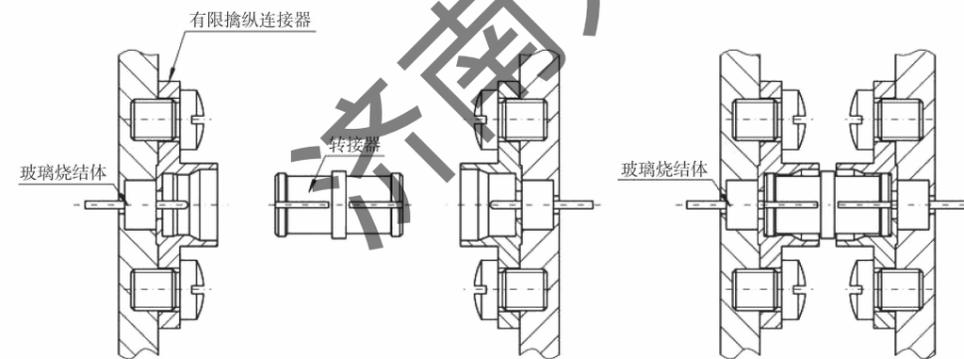


图四 玻璃烧结件

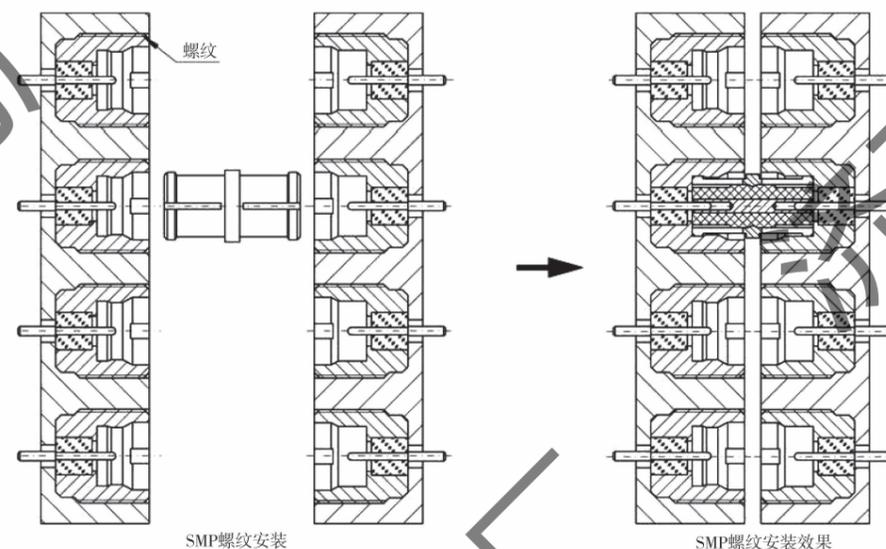
穿墙安装的连接器一般是由外壳和玻璃烧结体（如图四）组合而成。通过变化外壳的结构构成SMP三种插头的界面。穿墙安装若空间允许，可使用两孔法兰安装的外壳（如图五）；若空间较小，可借助安装墙加工相关安装孔，将外壳焊接或旋入安装孔（如图六）。焊接结构可获得优良的密封性能。



图五A 两孔法兰安装示意图

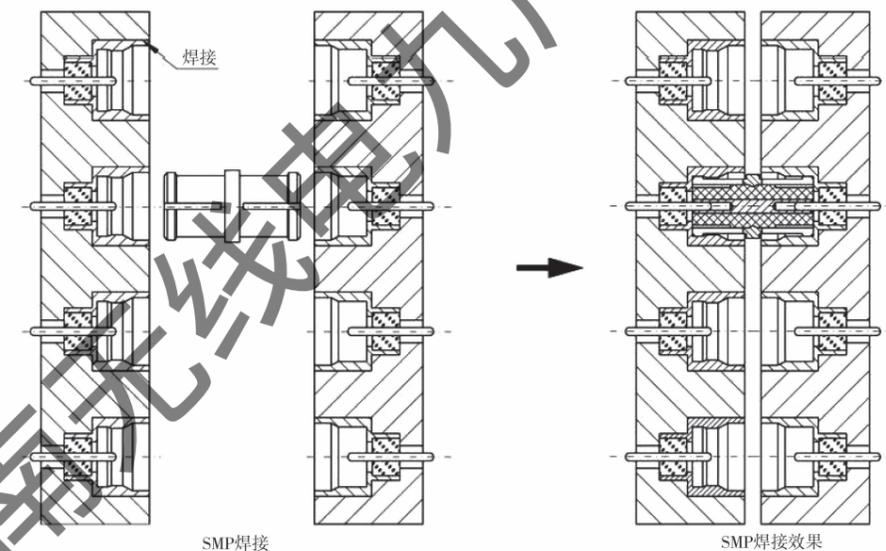


图五B 两孔法兰安装示意图



SMP螺纹安装

SMP螺纹安装效果



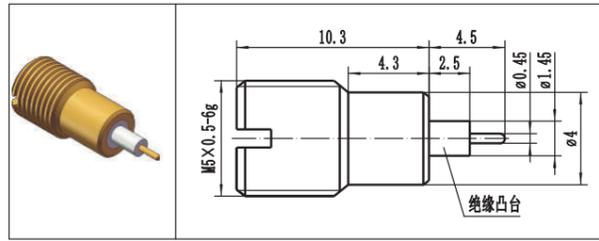
SMP焊接

SMP焊接效果

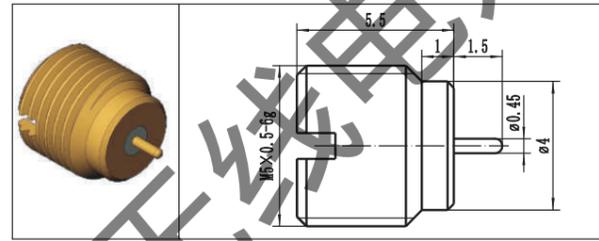
图六 SMP安装示意图

微带系列

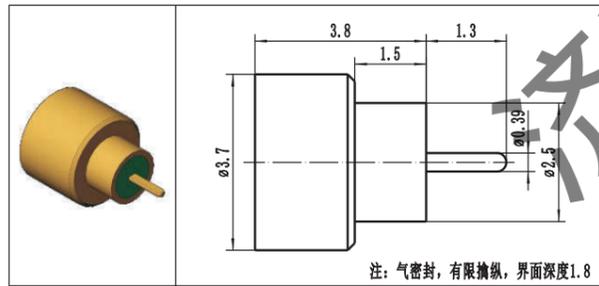
SMP-JYD



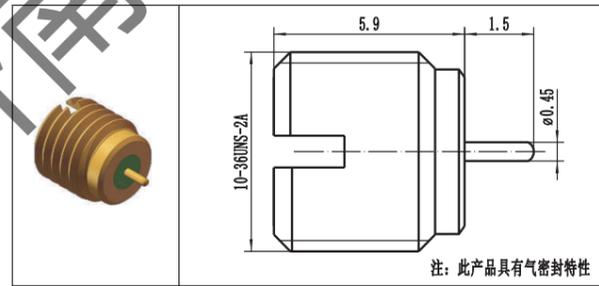
SMP-JYD2



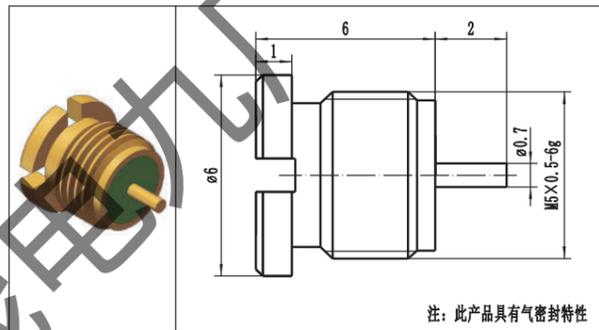
SMP (M) (1.8)-JYD3



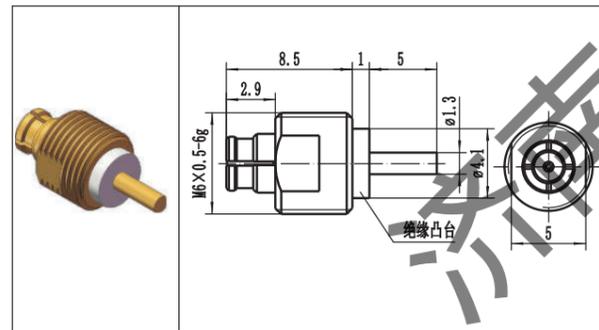
SMP (M)-JYD4



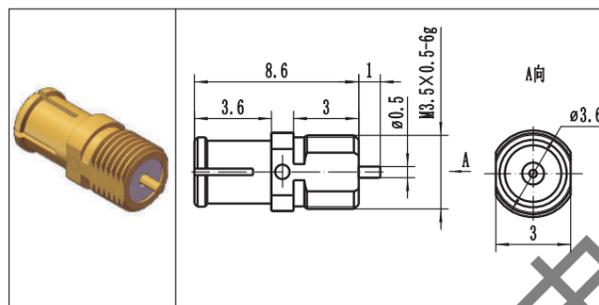
SMP (M)-JYD5



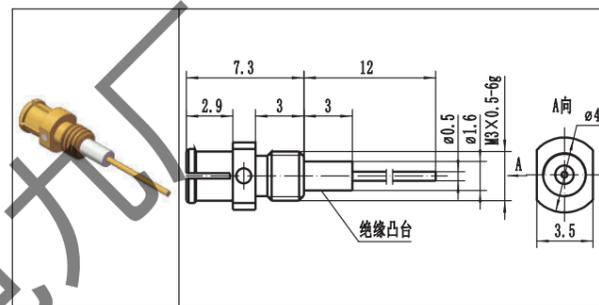
SMP-KYD



SMP-KYD2

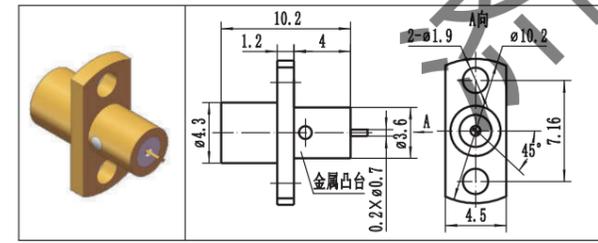


SMP-KYD3

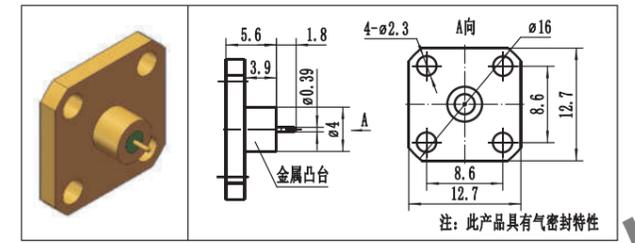


微带系列

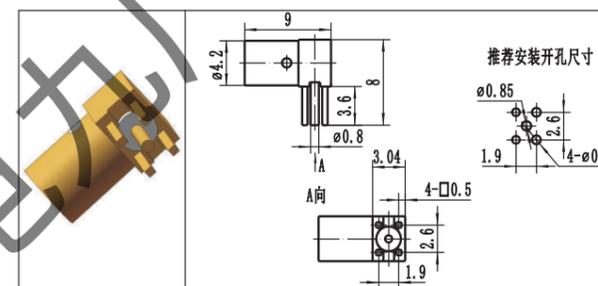
SMP-JFD



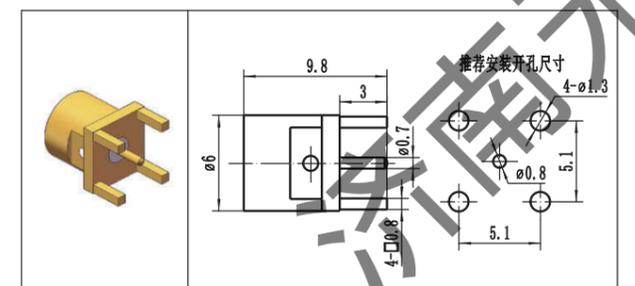
SMP (M)-JFD2



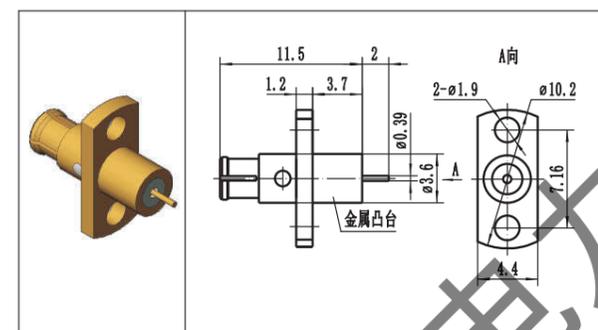
SMP-JWHD



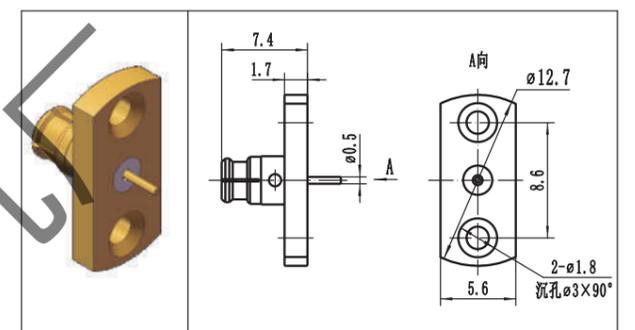
SMP-JHD



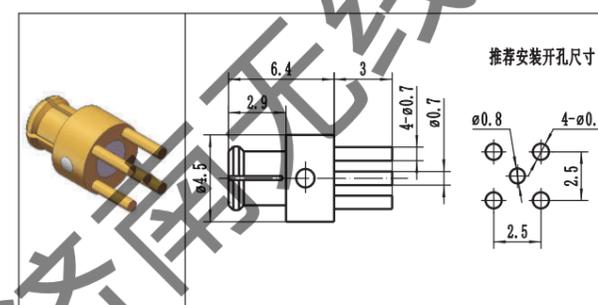
SMP-KFD



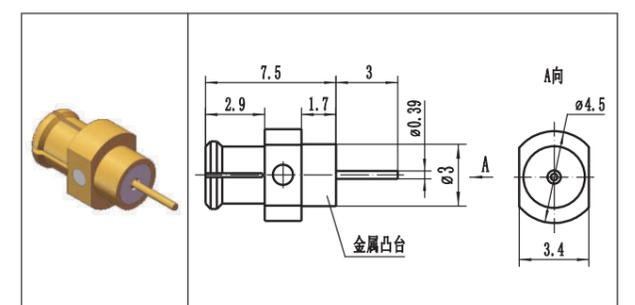
SMP-KFD2



SMP-KHD

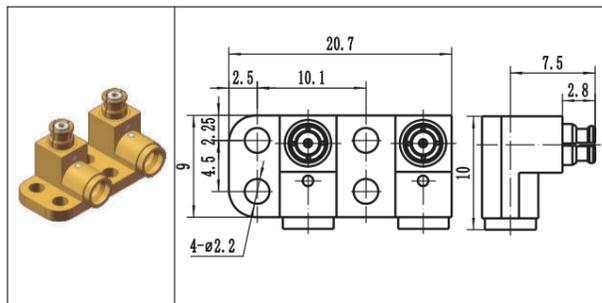


SMP-KHD2

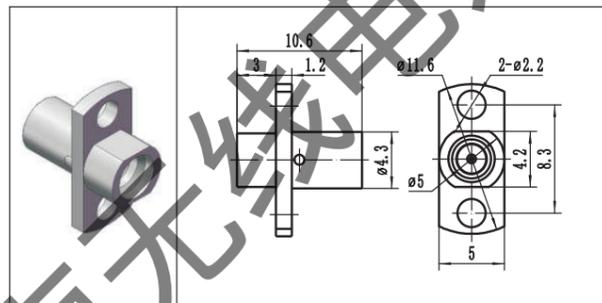


转接器系列

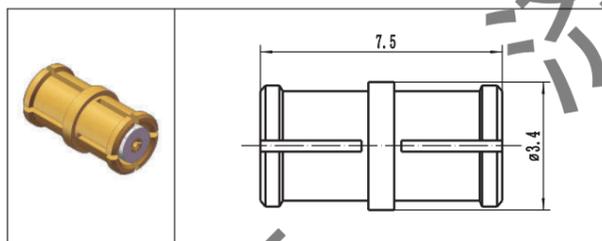
SMP-JWFK×2



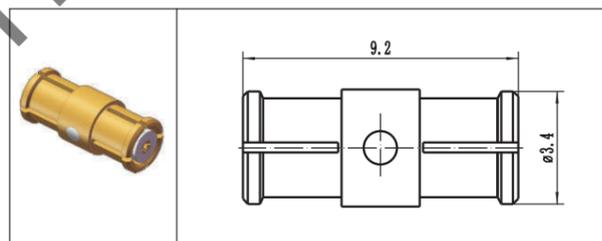
SMP-JFJG



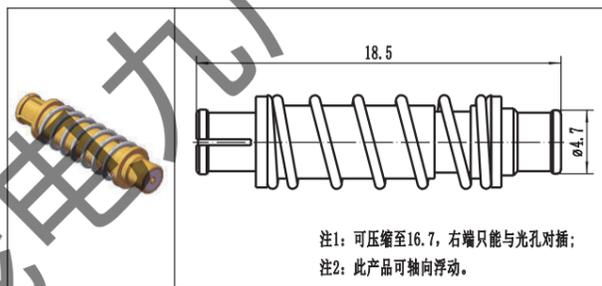
SMP-KK



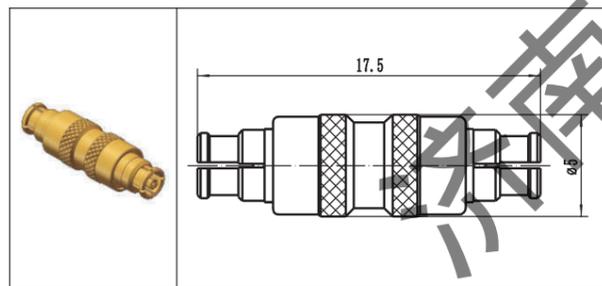
SMP-KK2



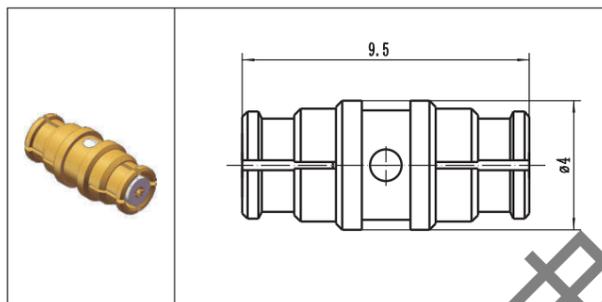
SMP-KK3-Float



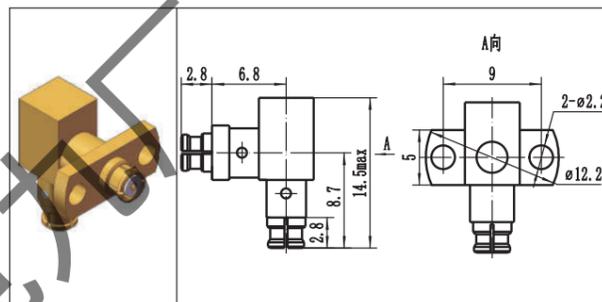
SMP-KK4



SMP-KK5

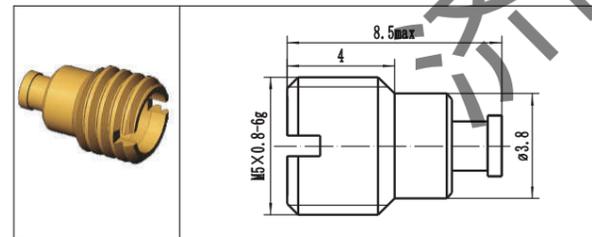


SMP-KWFK

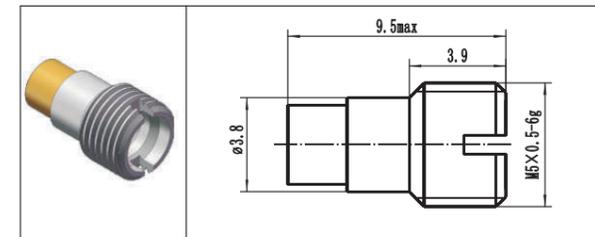


带电缆系列 配接1#半刚或1#半柔电缆

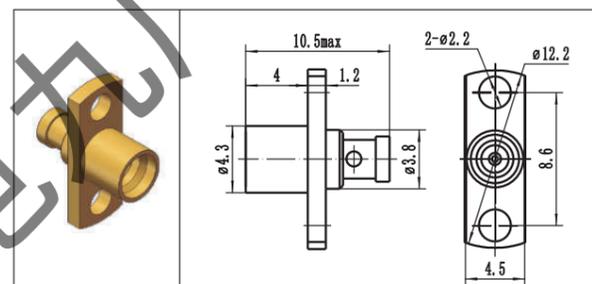
SMP-JYB1



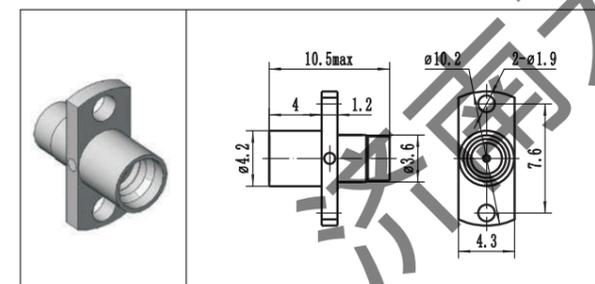
SMP-JYB1G-2



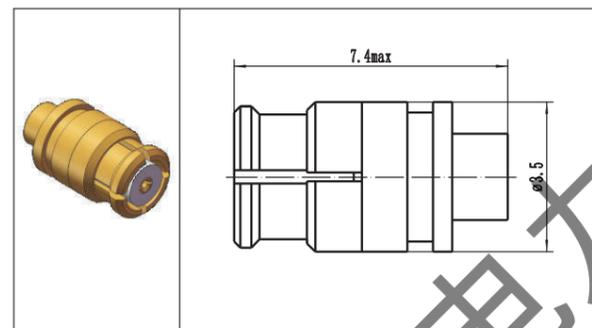
SMP-JFB1



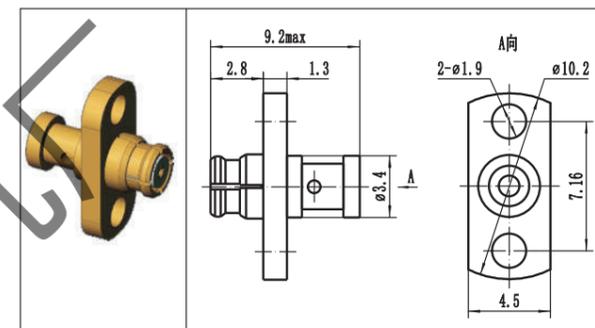
SMP-JFB1G-2



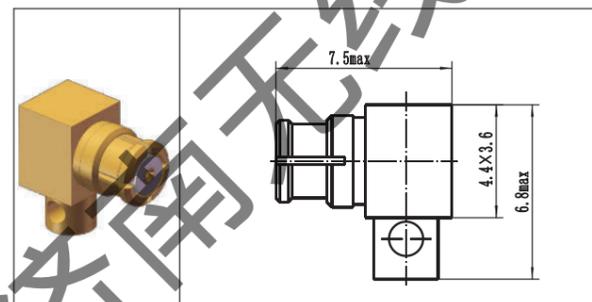
SMP-KB1



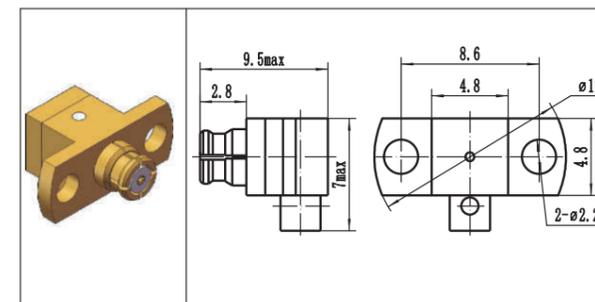
SMP-KFB1



SMP-KWB1

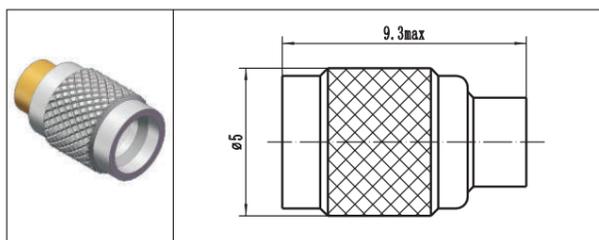


SMP-KWFB1

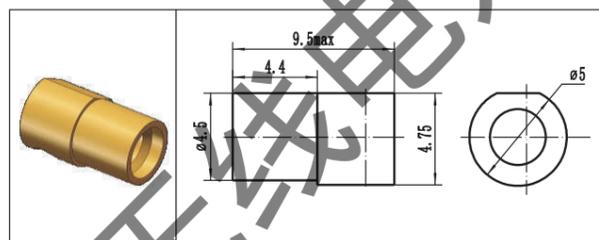


带电缆系列 配接2#半刚或2#半柔电缆

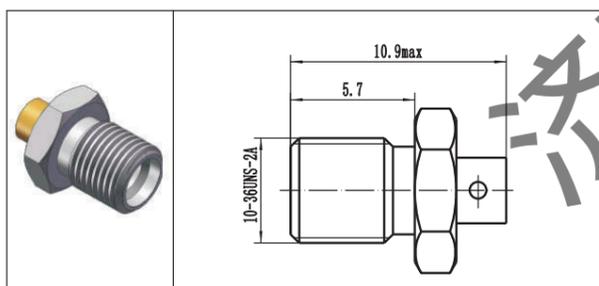
SMP-JB2G



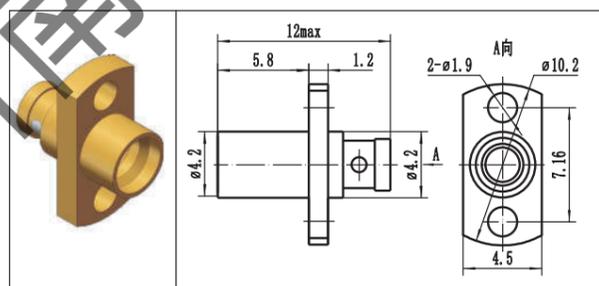
SMP-JWB2



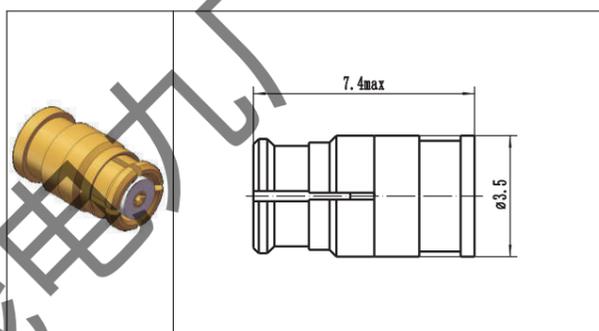
SMP-JYB2G



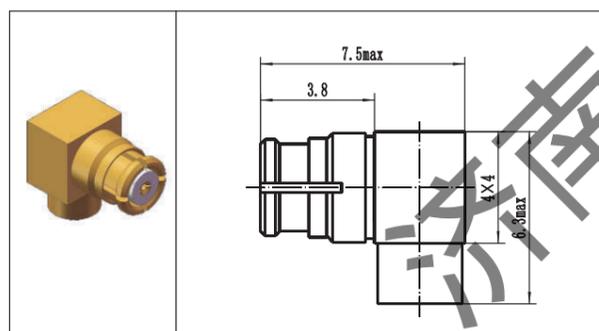
SMP-JFB2



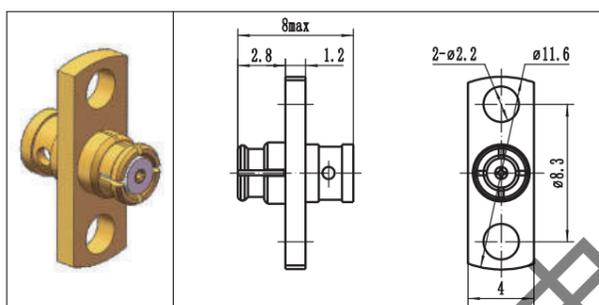
SMP-KB2



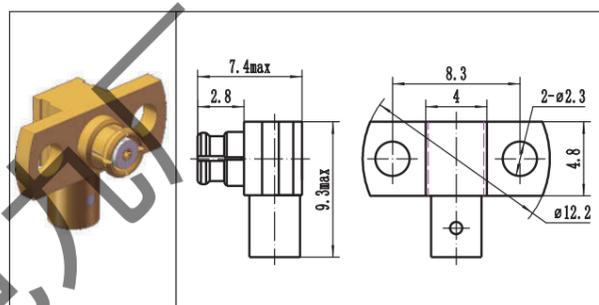
SMP-KWB2



SMP-KFB2

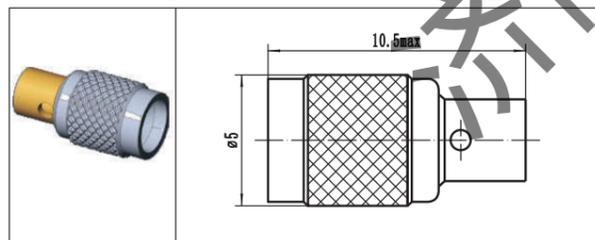


SMP-KWFB2

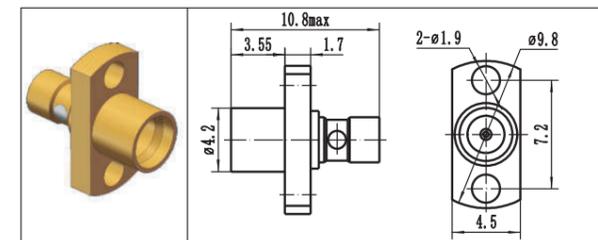


带电缆系列 配接CXN3506电缆

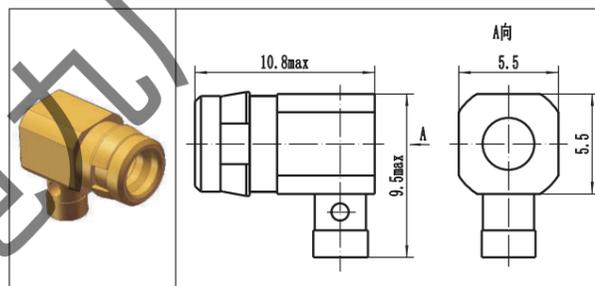
SMP-J3506G



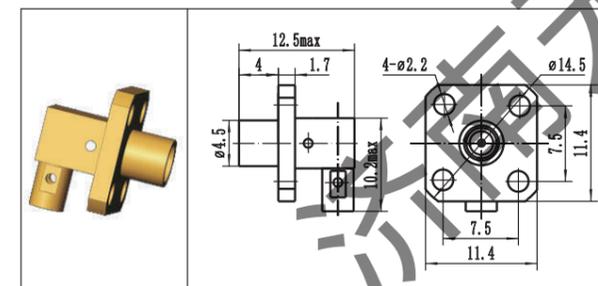
SMP-JF3506



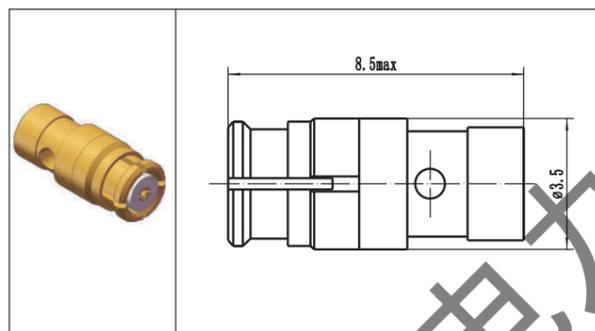
SMP-JW3506



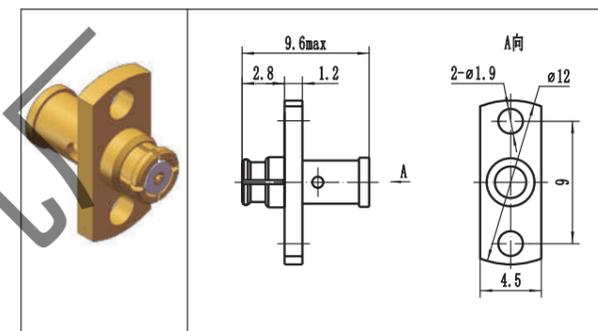
SMP-JWF3506



SMP-K3506



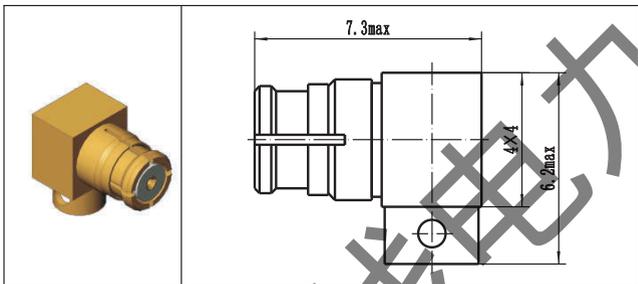
SMP-KF3506



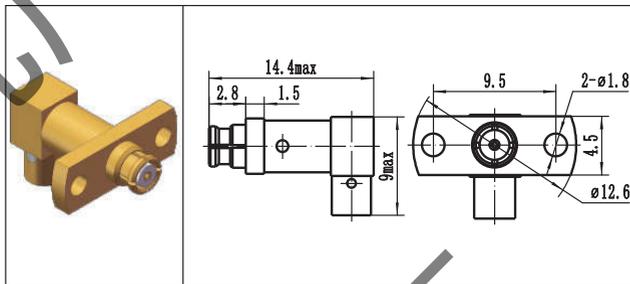


带电缆系列 配接CXN3506电缆

SMP-KW3506

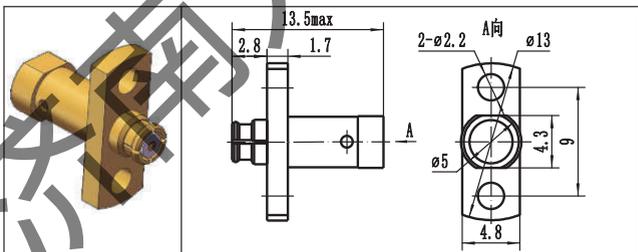


SMP-KWF3506

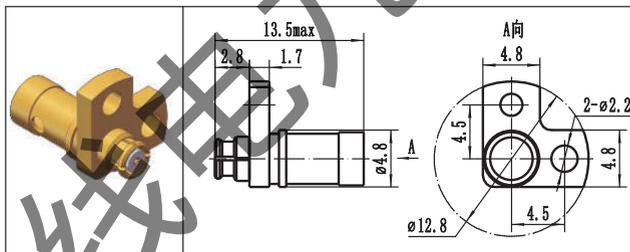


带电缆系列 配接CXN3507电缆

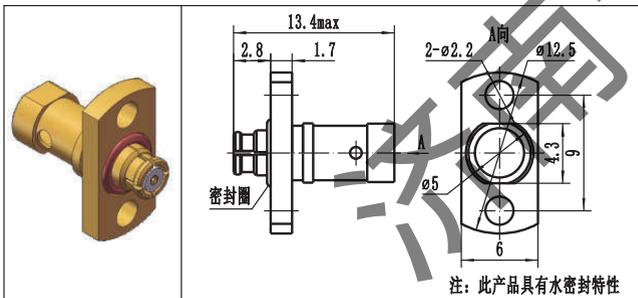
SMP-KF3507



SMP-KF3507-2



SMP(S)-KF3507-3



SMP-KWF3507

