

About us



It's located in the Chang'an communications industrial park of high tech Zone,Xi'an,China.The factory covers 35,000 square meters. There are over 500 employees, three machine processing workshops, four assembly lines, three military standard production lines,two laboratories,two aerospace and high reliable production lines,500 sets equipment for production, testing and experimental,including 110GHz Vector Network Analyzer,Helium Mass-spectrometer Leak Detector,X-ray Thickness Gauge,GDJS,Salt-mist Corrosion Tester and other equipment.

Founded in August 2003,Xi'an Elite Electronic Industrial Co., Ltd., is a national high-tech enterprise that specialized in R & D, manufacture and sales of electrical RF connector & adapter, cable assemblies, wave-guide connector & assemblies, multichannel microwave rotary joint and other electrical connection components. With our leading-level desigh experience, we've provided high performance interconnect products and solutions for military and commercial applications for 15 years.



Main Products

- *RF products
- -Cable Assembly
- -Connector(Integrated, cable, 50Ω , 75Ω type, ASMP, BNC, CSMP, SMA, SMP, etc.)
- -Adapter(In-series, Between-series)
- *Microwave Rotary Joint
- *Wave-guide Products
- -Cable Assembly
- -Adapter
- *Low Frequency Products
- *New Products
- -Attenuator
- *Tools

Contact Us

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Address: #2Dongxi 4th Road, Chang'an Communications Industrial Park, High Tech

Zone, Xi'an 710114, Shaanxi, China

Introduction



SMP is a sub-miniature push-on RFcoaxial connector, which has the characters of small size, light weight, excellent vabration-proof performance, and wide working broadband, etc. Operating frequency up to 30GHz (our product of high performance SMP connector can reach 40GHz), and the plug has three interface forms-full detent, limited detent and smooth bore(including with braking). Various interface forms can satisfy the required axial or radial movement of blind mating in the couple usage of board-to-board system. It's suitable for the install situation with the requirement of high reliability modular intensive.

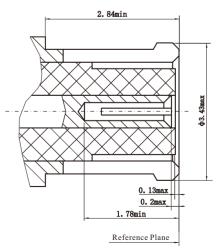
Performance Index

Electrical Char	acteristics				
Impedance	50Ω				
Frequency Range	DC~	40GHz			
Rated Voltage	170V	RMS(max	imum sea	-level)	
Dielectrics Voltage- resistance	500VRMS(maximum sea-level)			-level)	
Insulation Resistance		≥2000M	Ω		
Contact Resistance	outer conductor $normal \le 2.5 m\Omega, hermetic \le 4 m\Omega$				
	center conductor normal≤6mΩ,hermetic≤26mΩ				
		DC~18GHz	18∼26. 5GHz	26. 5∼40GHz	
VSWR	straight connector	≤1.25	≤1.3	≤1.5	
	Right angle connector	≤1.3			
	adapter	≤1.2	≤1.3	≤1.5	
	other	≤1.3			

Material & Mechanical Characteristics			
Center Conductor	male Sn-P bronze		gold plated
Center Conductor	female	beryllium bronze	gold plated
Elastic Contact	beryllium bronze gold pl		gold plated
Shell and other Metal Parts			gold plated passivation
Insulators	glass sintering/PTFE/PEI		
Hermetic Product Leakage Rate	$1.01325 \times 10^{-3} \text{Pa} \cdot \text{cm}^3/\text{s}$		

Interface Dimension

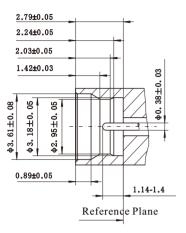
Socket



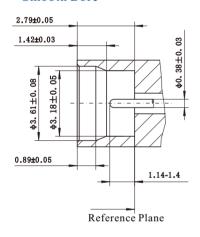


Plugs

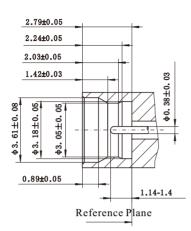
Full Detent



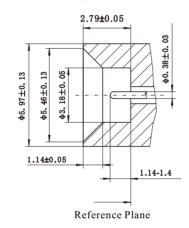
Smooth Bore



Limited Detent



Smooth Bore(control)



The plugs of SMP has three kinds of interface forms. Different letters are used to distinguish them according to their different engagement and disengagement forces. Details as below:

Interface Form	Name Method	Engagement Force	Disengagement Force
Full Detent	Model Number-F	68N max	22N min
Limited Detent	Model Number	45N max	9N min
Smooth Bore	Model Number-S	9N max	2.2N min

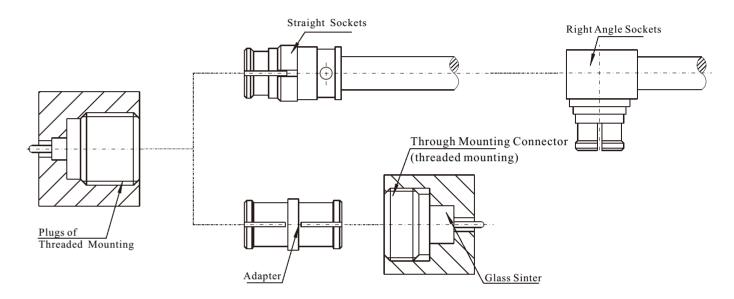
Example: Full Detent SMP-JFD26G-F Limited Detent SMP-JFD26G SMP-JFD26G-S Smooth Bore

Install Introduction

SMP connectors include a variety of straight plugs, right angle plugs and sockets. Plugs have three kinds of interface forms---full detent, limited detent and smooth bore. To meet different conditions and requirements, many kinds of mounting are available such as through mounting, flange mounting and glass sinter, etc. According to classification, there are two main forms of connection:

1, Put the straight or right angle socket directly into the plug or the connector with through mounting (threaded or flange mounting)

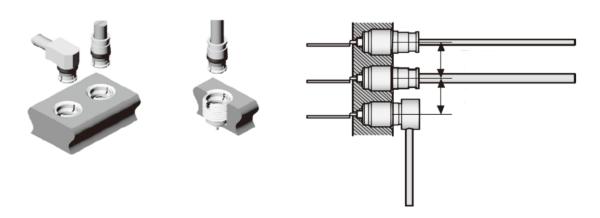
2, Add an adapter to avoid axial or radial misalignment.



Figures 1 Plugs and sockets matching diagram

Matching method of connector with cable

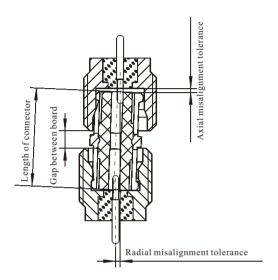
Following drawing is SMP straight, right angle cable connectors with module mated useage, left is unmated drawing, right is mated.



Figures 2 Sockets with cable and module matching diagram

Matching method of connector with adapter

SMP is a sub-miniature connector which can provide various interface forms. It's used extensively in multiple situations of intensive mounting and blind-mated mounting. The adoption of an adapter between the two modules can solve the axial and radial misalignment tolerance cause of the two modules mounting mole dimension error, make the two modules meet the requirements of multiple SMP plug and socket simultaneous use.



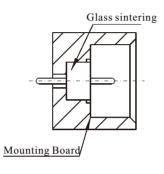


Figure 3 Mate adapter between two models

Figure 4 Glass sintering connector

Through-mounting connector is usually composed of shell and glass sintering connector(Figure 4). By changing the structure of the shell forms three plug interface of SMP. If there is enough space in through-mounting connector, it can use the shell with 2- hole flange mounting(Figure 5), if the space is limited, the relevant holes can be processed by the installation wall, make the shell weld or screw into installation hole(Figure 6). The welding structure has good seal-ability.



Figure 5 2- hole flange mounting diagram

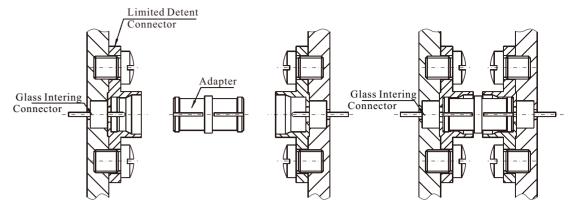


Figure 5-B 2- hole flange mounting diagram

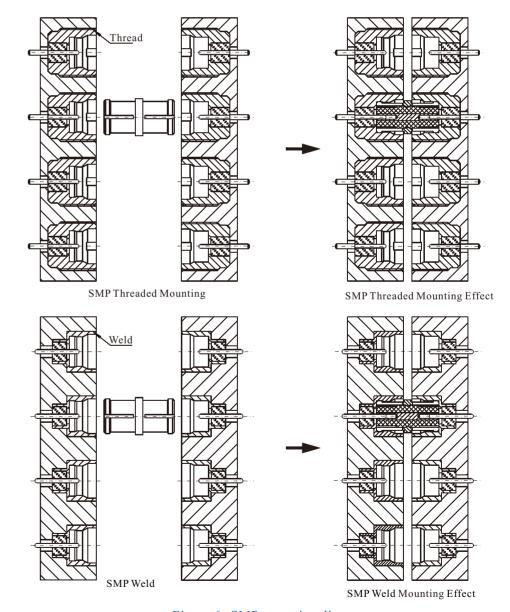


Figure 6 SMP mounting diagram

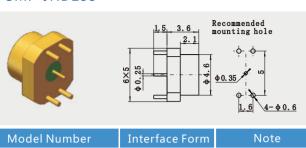
4

Micro Strip Connector (JHD series)

SMP-JHD235

SMP-JHD235

SMP-JHD235-S

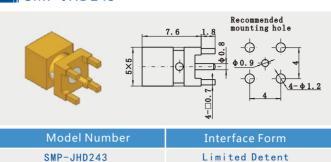


Limited Detent Meshing depth1.7

Smooth Bore Meshing depth1.7

SMP-JHD243

SMP-JHD243-S SMP-JHD243-F



Smooth Bore

Full Detent

SMP In-Series Adapter

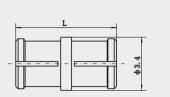
SMPD-KK2



Model No.	L	Note
SMPD-KK2	4. 55	Can only be used with a short interface male end
SMPD-KK3	4. 75	Can only be used with a short interface male end
SMPD-KK4	4. 9	Can only be used with a short interface male end
SMPD-KK8	5	Can only be used with a short interface male end
SMPD-KK12	4.6	Can only be used with a short interface male end

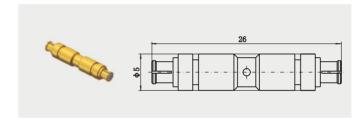
SMP-KK





Model Number	L
SMP-KK	6. 45
SMP-KK12	5.8
SMP-KK88	6. 2
SMP-KK173	6. 1
SMP-KK174	5.8
SMP-KK180	12.3
SMP-KK182	8. 1
SMP-KK202	5.9

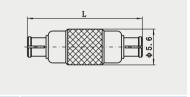
SMP-KK1



Model Number	Note
SMP-KK1	

SMP-KK2

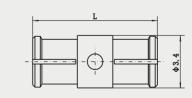




Model Number	L
SMP-KK2	18. 2
SMP-KK10	17. 8

SMP-KK3





Model Number	L
SMP-KK3	8.1
SMP-KK8	7. 75
SMP-KK22	6. 45
SMP-KK26	9.45
SMP-KK29	8.5
SMP-KK46	7. 2
SMP-KK105	25.5
SMP-KK106	8. 6
SMP-KK117	14. 65

SMP-KK4

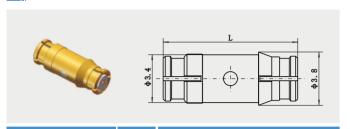




Model Number	Note
SMP-KK4	Right end can only be used with smooth bore.



SMP-KK6



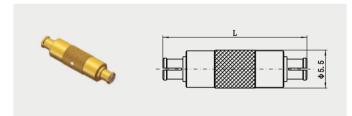
Model Number	L	Note
SMP-KK6	9.6	Right end can only be used with smooth bore
SMP-KK7	8.5	Right end can only be used with smooth bore

SMP-KK9



Model Number	Note
SMP-KK9	

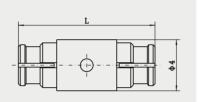
SMP-KK11



Model Number	L
SMP-KK11	22.3
SMP-KK42	20.9

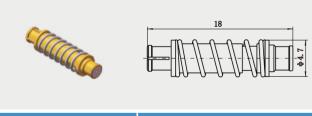
SMP-KK13





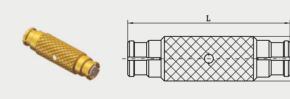
Model Number	L
SMP-KK13	10.7
SMP-KK17	11
SMP-KK37	8.3
SMP-KK38	7. 8

SMP-KK15



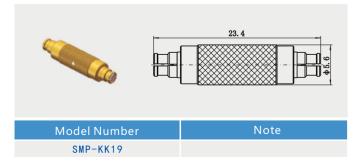
Model Number	Note
SMP-KK15	Can be compressed to 16.7, right end can only be used with smooth bore

SMP-KK16

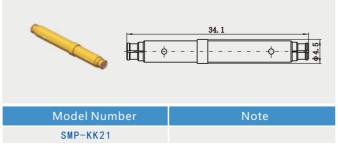


Model Number	L
SMP-KK16	14. 5
SMP-KK23	14. 8
SMP-KK31	13.7

SMP-KK19



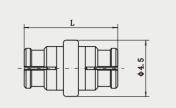
SMP-KK21



SMP In-Series Adapter

SMP-KK25

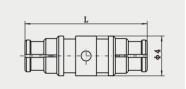




Model Number	L
SMP-KK25	7. 5
SMP-KK27	7
SMP-KK30	7. 7
SMP-KK33	9.4

SMP-KK32

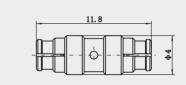




Model Number	L
SMP-KK32	10.3
SMP-KK40	12.3
SMP-KK45	12.5
SMP-KK50	15. 9
SMP-KK63	12.4
SMP-KK194	12. 7

SMP-KK36

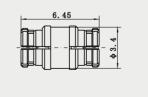




Model Number	Note
SMP-KK36	

SMP-KK48

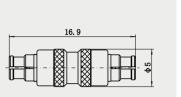




Model Number	Note
SMP-KK48	

SMP-KK28

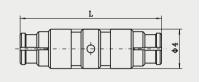




Model Number	Note
SMP-KK28	

SMP-KK35

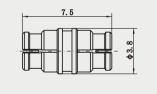




Model Number	L
SMP-KK35	14.4
SMP-KK61	14.6
SMP-KK235	14. 25

SMP-KK41





Model Number	Note
CMD_KK 41	

SMP-KK52



	11.4
Model Number	Note

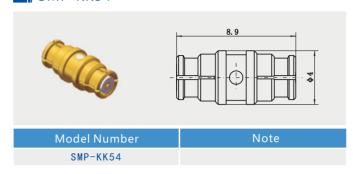
model Number	Note
SMP-KK52	



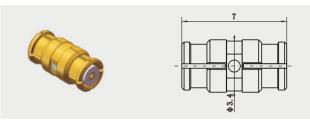
SMP-KK53



SMP-KK54



SMP-KK58



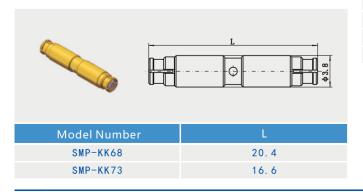
Model Number	Note
SMP-KK58	

SMP-KK59

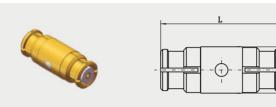


Model Number	L	Note
SMP-KK59	16	Can be compressed to 15, right end can only be used with smooth bore.
SMP-KK62T	13	Can be compressed to 12, right end can only be used with smooth bore
SMP-KK62T-Y1	13	Can be compressed to 12, rightend can only be used with smooth bore. 192H salt fog resistance
SMP-KK190T	12.7	Can be compressed to 11. 9, right end

SMP-KK68



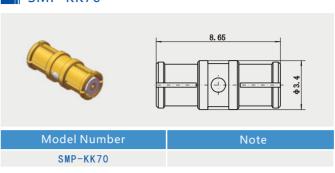
SMP-KK64



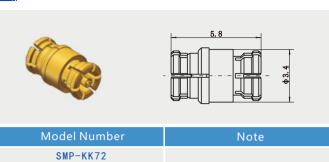
Model Number	L
SMP-KK64	9.45
SMP-KK65	15. 4
SMP-KK67	9.18
SMP-KK69	11.1
SMP-KK84	7. 95
SMP-KK85	15. 25
SMP-KK94	10.4
SMP-KK95	12
SMP-KK100	8.8
SMP-KK101	13
SMP-KK102	13. 2
SMP-KK103	13. 4
SMP-KK104	13. 6
SMP-KK110	17. 6
SMP-KK181	13. 1
SMP-KK183	10.55
SMP-KK184	8.75
SMP-KK185	22. 2
SMP-KK187	20.4
SMP-KK195	11.4
SMP-KK241	8. 4
SMP-KK253	19.5

SMP In-Series Adapter

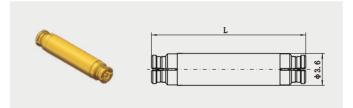
SMP-KK70



SMP-KK72

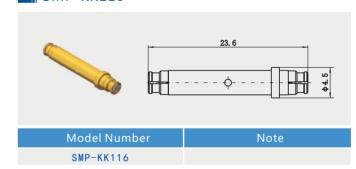


SMP-KK96

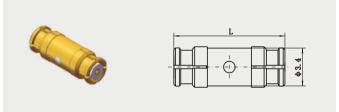


Model Number	L
SMP-KK96	17. 35
SMP-KK97	9.6
SMP-KK98	11

SMP-KK116

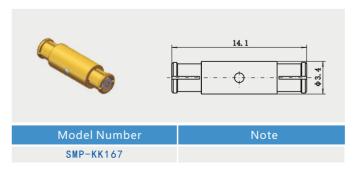


SMP-KK99

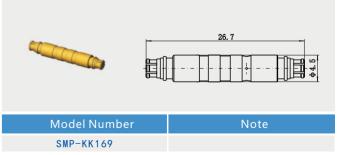


Model Number	L
SMP-KK99	9.6
SMP-KK166	10.2
SMP-KK175	6.7
SMP-KK176	7. 1
SMP-KK177	7. 4
SMP-KK178	8. 1
SMP-KK188	10
SMP-KK189	9.7
SMP-KK192	9
SMP-KK239	9.9
SMP-KK249	6. 7

SMP-KK167

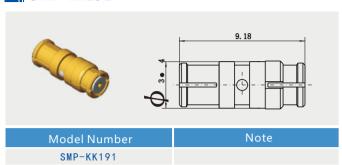


SMP-KK169

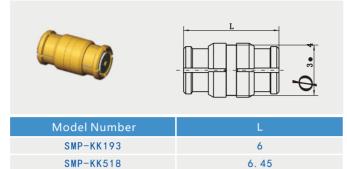


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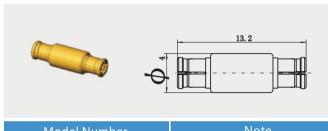
SMP-KK191



SMP-KK193

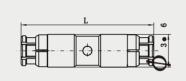


SMP-KK197



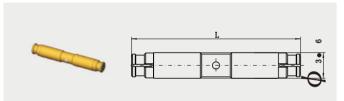
SMP-KK206





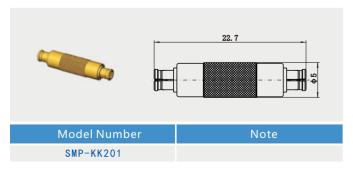
Model Number	Note
SMP-KK197	

SMP-KK199



Model Number	L
SMP-KK199	23.7
SMP-KK243	22.5
SMP-KK244	25.6
SMP-KK262	27.5

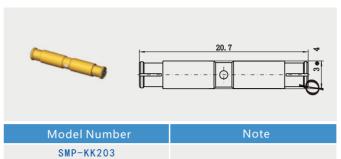
SMP-KK201



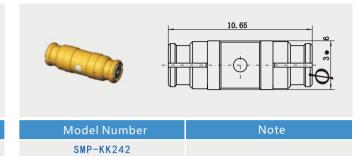
Model Number	L	Note
SMP-KK206	14. 6	Weak Insertion Force
SMP-KK207	14.8	Weak Insertion Force
SMP-KK208	15	Weak Insertion Force
SMP-KK209	15. 2	Weak Insertion Force
SMP-KK210	15.4	Weak Insertion Force
SMP-KK211	15.6	Weak Insertion Force
SMP-KK212	15.8	Weak Insertion Force
SMP-KK213	16	Weak Insertion Force
SMP-KK214	16. 2	Weak Insertion Force
SMP-KK215	16.4	Weak Insertion Force
SMP-KK216	16.6	Weak Insertion Force
SMP-KK217	16.8	Weak Insertion Force
SMP-KK218	17	Weak Insertion Force
SMP-KK219	17. 2	Weak Insertion Force
SMP-KK220	17.4	Weak Insertion Force
SMP-KK221	17.6	Weak Insertion Force
SMP-KK222	17.8	Weak Insertion Force
SMP-KK223	18	Weak Insertion Force
SMP-KK224	18. 2	Weak Insertion Force
SMP-KK225	18.4	Weak Insertion Force
SMP-KK226	18.6	Weak Insertion Force
SMP-KK227	18.8	Weak Insertion Force
SMP-KK228	19	Weak Insertion Force
SMP-KK229	19. 2	Weak Insertion Force
SMP-KK230	19.4	Weak Insertion Force
SMP-KK231	19. 6	Weak Insertion Force
SMP-KK232	19.8	Weak Insertion Force
SMP-KK233	20	Weak Insertion Force
SMP-KK234	20. 2	Weak Insertion Force

SMP In-Series Adapter

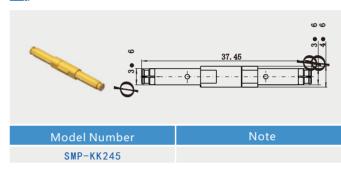
SMP-KK203



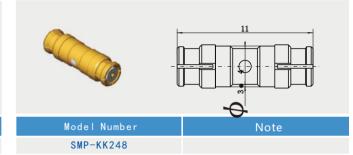




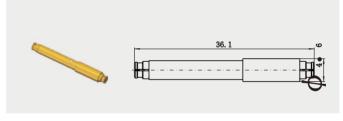
SMP-KK245



SMP-KK248



SMP-KK258



Model Number	Note
SMP-KK258	

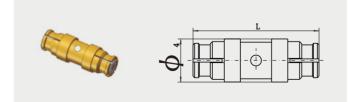
SMP-KK264





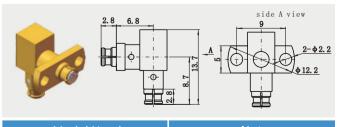
Model Number	L
SMP-KK264	14.6
SMP-KK265	17. 6

SMP-KK268



Model Number	L
SMP-KK268	11.7
SMP-KK269	11.85
SMP-KK270	12.05

SMP-KWFK

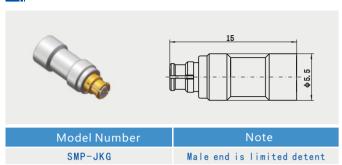


Model Number	Note
SMP-KWFK	

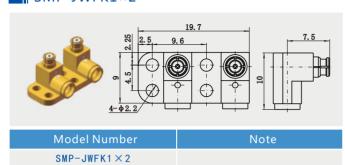
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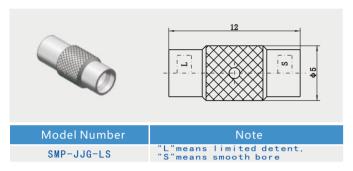
SMP-JKG



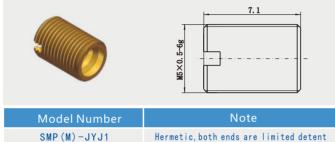
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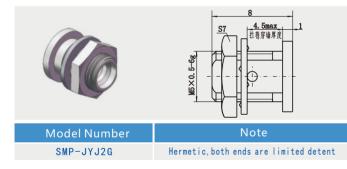
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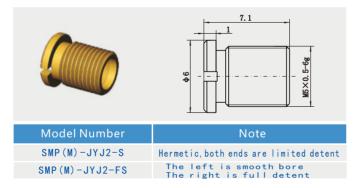
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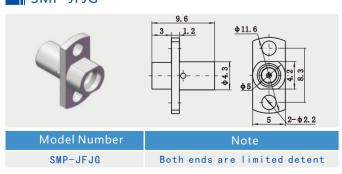
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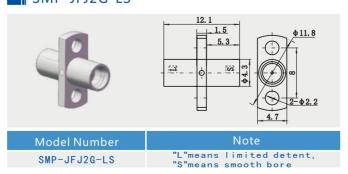
SMP(M)-JYJ2-S



SMP-JFJG



SMP-JFJ2G-LS



SMP In-Series Adapter

SMP-JFJ8-LC

