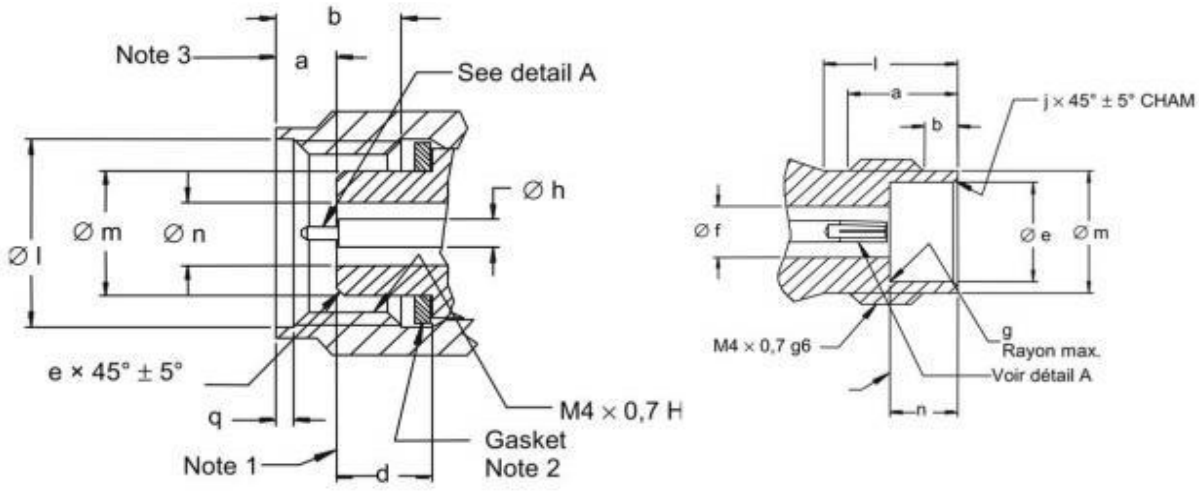
1.0mm

1.0mm series connectors operate up to 110GHz and have a VSWR< 1.38. The threaded connection provides an excellent solution for applications requiring high frequency transmission. The 1.0mm connectors offer optimum electrical performance, excellent mechanical stability, and extreme reliability. Longtrox Technology can provide detachable PCB connectors, flange connectors, screw-in connectors, cable connectors and adapters.

Connector interface



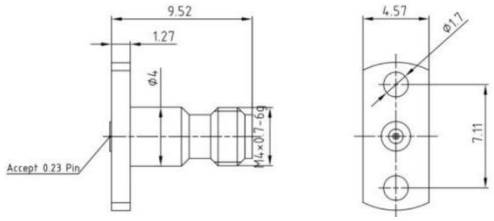
	Male		Female	
	Min	Max.	Min	Max.
a	1.26(0.050)	1.86(0.073)	2.700(0. 106)	2.900(0. 114)
b	2.840(0. 112)	3.04(0. 120)	0.450(0.018)	0.550(0.022)
c	-	0.050(0.002)	1.300(0.051)	-
d	1.800(0.071)	1.900(0.075)	0.000(0.000)	0.050(0.002)
e	0. 150(0.006)	0.250(0.010)	2.380(0.094)	2.400(0.095)
f	-	0.025(0.001)	0.9950(0.03917)	1.0050(0.03957)
g	28°	32°	-	0.013(0.0005)
h	0.4315(0.01699)	0.4365(0.01719)	0.025(0.001)	0.076(0.003)
j	0.700(0.028)	0.800(0.032)	0.070(0.0028)	0. 150(0.0059)
k	0. 100(0.004)	0. 125(0.005)	0.4315(0.01699)	0.4365(0.01719)
l	4. 150(0. 1634)	4.250(0. 1673)	3.750(0. 148)	-
m	2.348(0.0924)	2.368(0.0932)	2.950(0. 116)	3.050(0. 120)
n	0.995(0.03917)	1.005(0.03957)	1.600(0.063)	1.700(0.067)
p	0.245(0.0096)	0.255(0.0100)	/	/
q	0.300(0.012)	0.500(0.020)	/	/

Technical data

Electric data	
Impedance	50Ω
Frequency range	110GHz
VSWR	1.38
Operating voltage(AC)	150V(VRMS max at sea level)
Dielectric withstanding voltage (AC)	500V(VRMS max at sea level)
Insert loss	0.9dB
Insulation resistance	5000MΩ
Contact resistance	Center Conduct 4mΩ Outer Conduct 2.5mΩ
Mechanical data	
Insertion/pull-out force	0.56N/0.28N
Nut connection torque	0.45Nm
Nut tensile strength	220N
Durability	500 times
Environmental data	
Temperature range	-65°C-165°C
Temperature shock	Test Method 107 ,Test condition B
Impact	Test Method 213 ,Test condition I
Vibration	Test Method 204 ,Test conditions D
Salt spray	Test Method 101 ,Test conditions B
Material data	
Body	Stainless steel passivation
Center Conduct	Beryllium copper gold-plated
Insulation	PEI

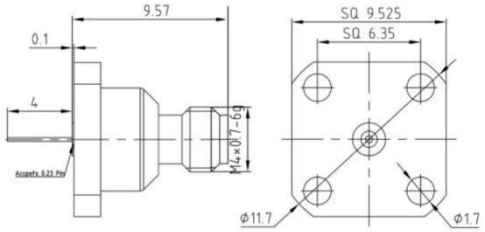
Enforce the standard： IEEE 287 GPC

1.0mm female 2-hole flange replaceable, ϕ0.23 pin



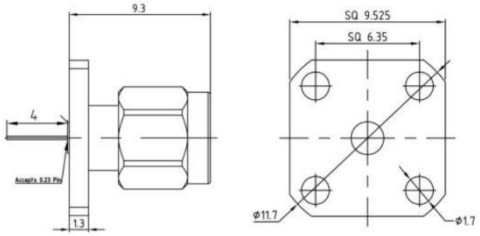
Model	Note
1.0-KFD004	

1.0mm female 4-hole flange replaceable, ϕ0.23 pin



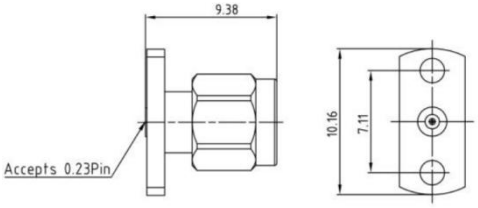
Model	Note
1.0-KFD011	

1.0mm male 4-hole flange replaceable, ϕ0.23 pin



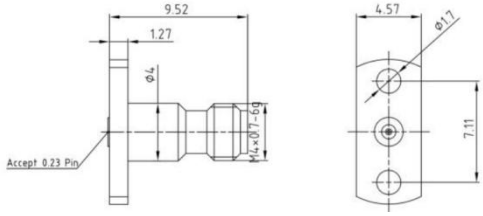
Model	Note
1.0-JFD011	

1.0mm male2-hole flange replaceable, ϕ0.23 pin



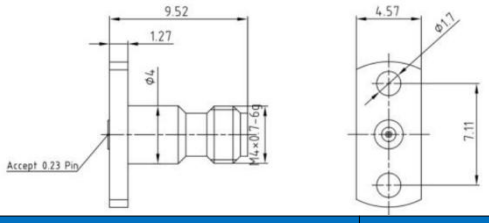
Model	Note
1.0-JFD004	

1.0mm female 2-hole flange replaceable,ϕ0.23 pin,length of the exposed tail needle is 3.1mm



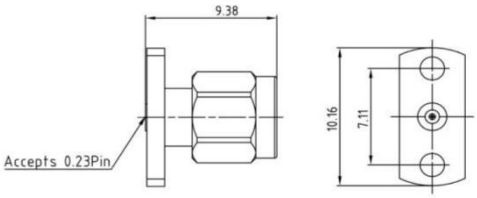
Model	Note
1.0-KFD043-310	

1.0mm female 2-hole flange replaceable,ϕ0.23 pin,length of the exposed tail needle is 4mm



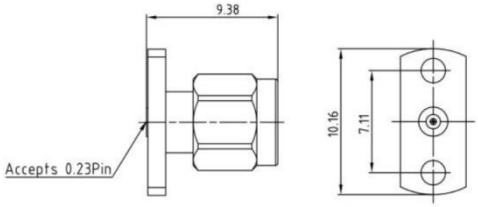
Specification	Note
1.0-KFD043-400	

1.0mm male 2-hole flange replaceable,ϕ0.23 pin,length of the exposed tail needle is 4mm



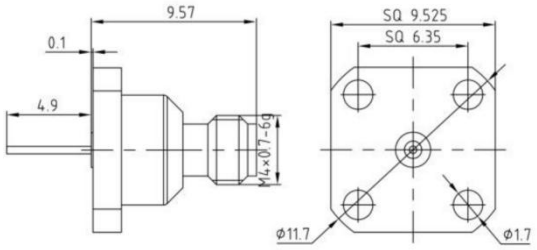
Specification	Note
1.0-JFD023-200	

1.0mm male 2-hole flange replaceable,ϕ0.23 pin,length of the exposed tail needle is 3.5mm



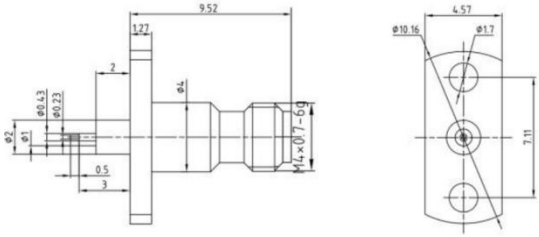
Specification	Note
1.0-JFD023-350	

1.0mm female flange replaceable, 0.43 pin



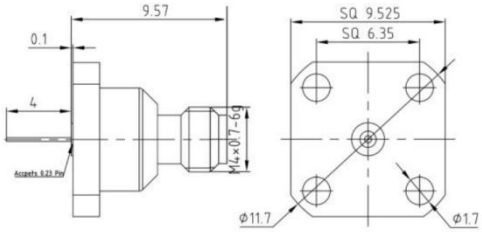
Specification	Note
1.0-KFD014	

1.0mm female two-hole flange replaceable, bulkbhead



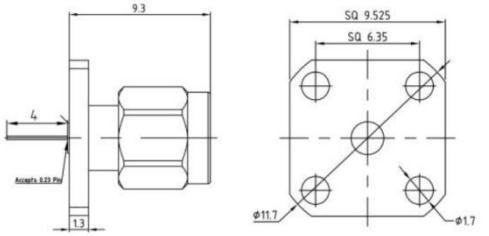
Specification	Note
1.0-KFD043-310	

1.0mm female, four-hole flange replaceable, tail Φ0.23



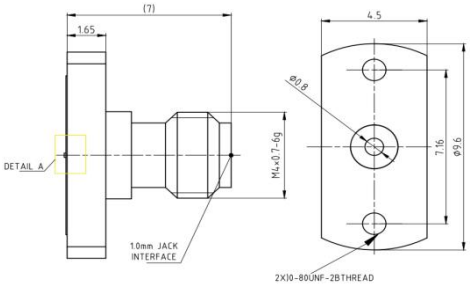
Specification	Note
1.0-KFD023-400	

1.0mm male, four-hole flange replaceable, tail Φ0.23



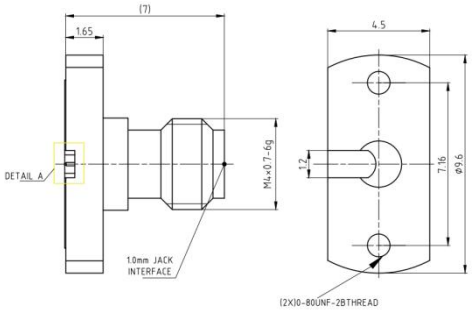
Specification	Note
1.0-JFD023-400	

1.0mm female receptacle, vertical launch, solderless



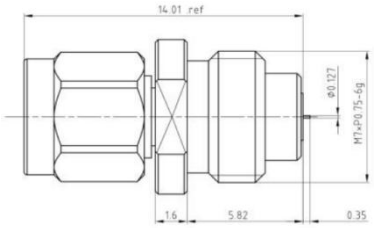
Specification	Note
1.0-KFD037	

1.0mm female receptacle, vertical launch, solderless



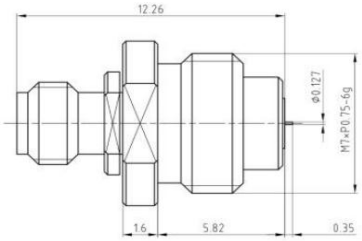
Specification	Note
1.0-KFD036	

1.0mm plug, thread-in



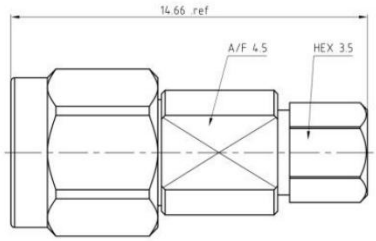
Specification	Note
1.0-JTDK	

1.0mm receptacle, thread-in



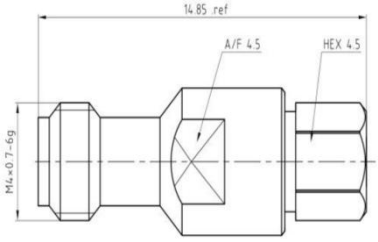
Specification	Note
1.0-KTDK	

1.0mm male, clamped to 047(150) cable



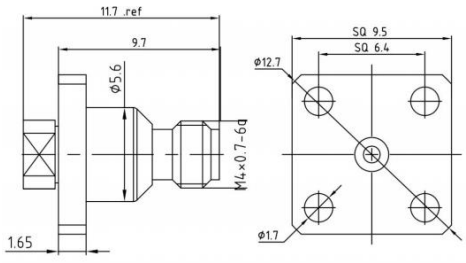
Specification	Note
1.0-J150Z	

1.0mm female, clamped to 047(150) cable



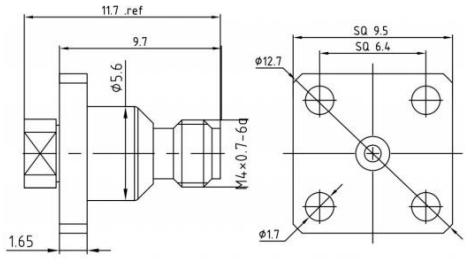
Specification	Note
1.0-K150Z	

1.0mm female, four-hole flange, terminated to 047(150) cable



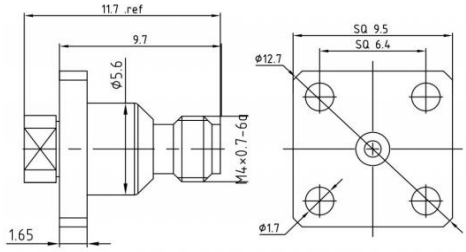
Specification	Note
1.0-KF020	

1.0mm female, four-hole flange, terminated to 034 cable



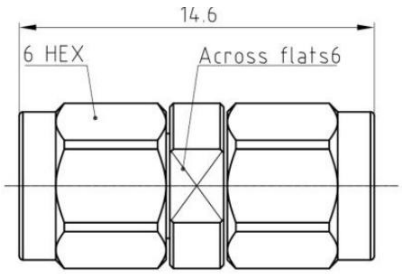
Specification	Note
1.0-KF034	

1.0mm female, four-hole flange, terminated to 047 cable



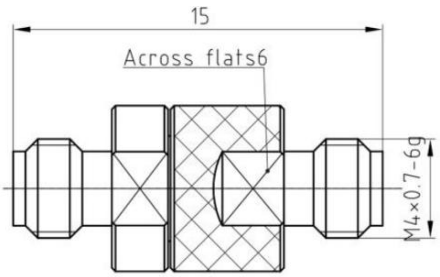
Specification	Note
1.0-KF047	

1.0mm male to Male adapter



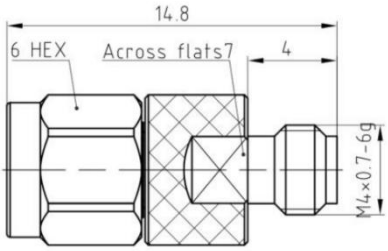
Specification	Note
1.0-JJ	

1.0mm female to Female adapter



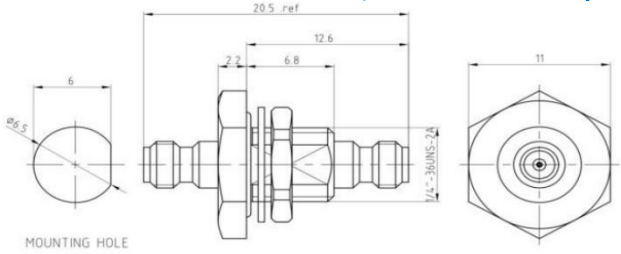
Specification	Note
1.0-KK	

1.0mm male to Female adapter



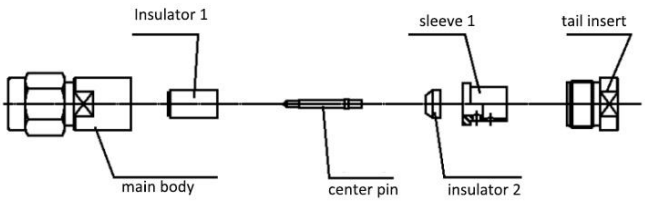
Specification	Note
1.0-JK	

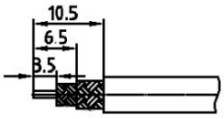
1.0mm female to Female, hemertic adapter



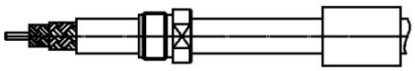
Specification	Note
1.0-KLK	

Assemble Instructions

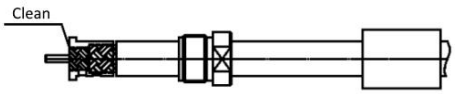




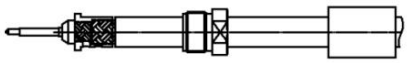
1.A. Strip the cable according to diagram;
B. Remove burrs after tinning;
C. Strip the first shielding;
D. Tin again and remove burrs;
E. Strip the second shielding;
F. Remove the film layer on the core wire;



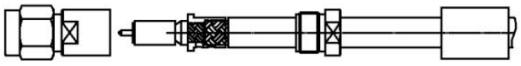
2.A. Put on the heat shrink tube,label tube and tail insert in turn;



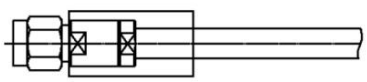
3.A. Weld the sleeve 1 to the cable. Clean the end face after welding.



4.A. Put on insulator
B.weld the pin. Weld it full, just covers the observation opening.



5.A. Put on insulator 1;
B. Apply adhesive to the thread ;



6.A. Tighten the main body and the tail insert;
B. Blow on the heat-shrink sleeve;