

FCPL-MO-M

SMP Connector, DC~40GHz

Features:
* Low VSWR

Applications:
* Wireless
* Radar
* Instruments
* Electronics

Electrical

Frequency:	DC~40GHz (Outline A, L) DC~35GHz
VSWR:	1.25 max. (Outline A)
Impedance of Dielectric:	5000MΩ (500V DC) min. (Outline B~L)
Voltage Withstand*1:	500V (Outline B~L)
Impedance:	50Ω

[1] 50Hz, AC RMS, at sea level.

Environmental

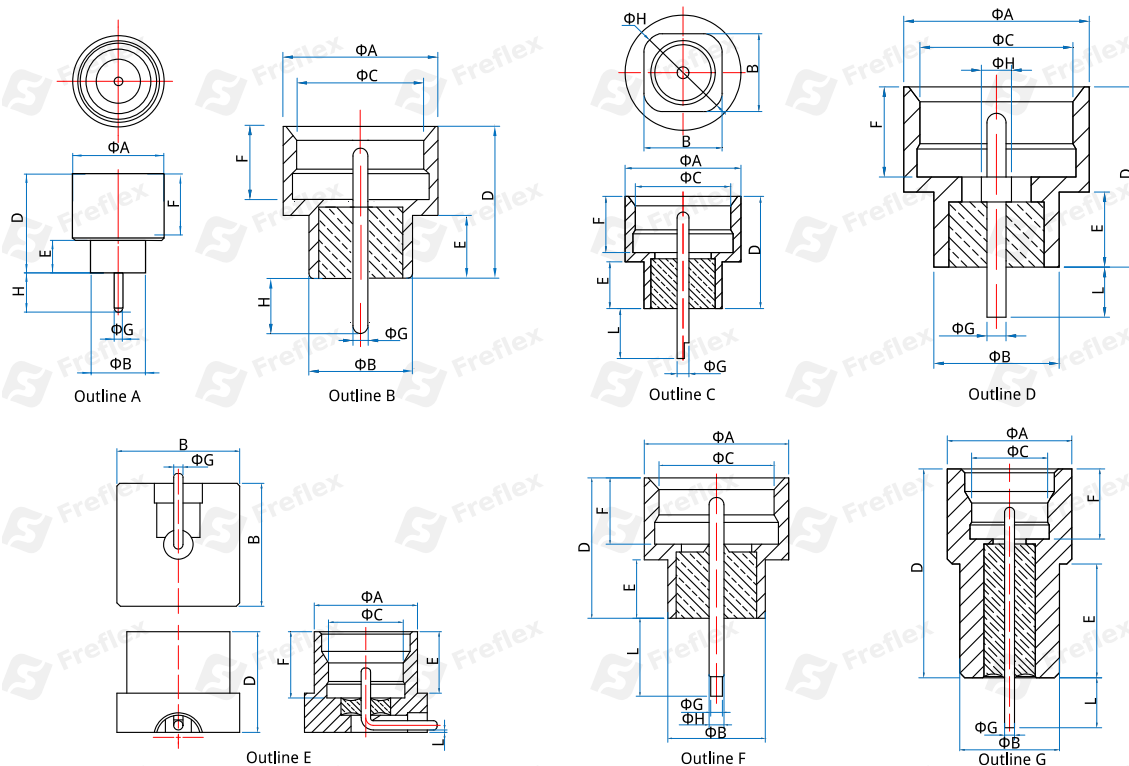
Temperature:	-55~+165°C (Outline A) -65~+165°C
Seal:	1.013*10 ⁻³ Pa.cm ³ /s (He) max. (Outline B~L)
Salt Fog*2:	48h min. (Outline B~K)

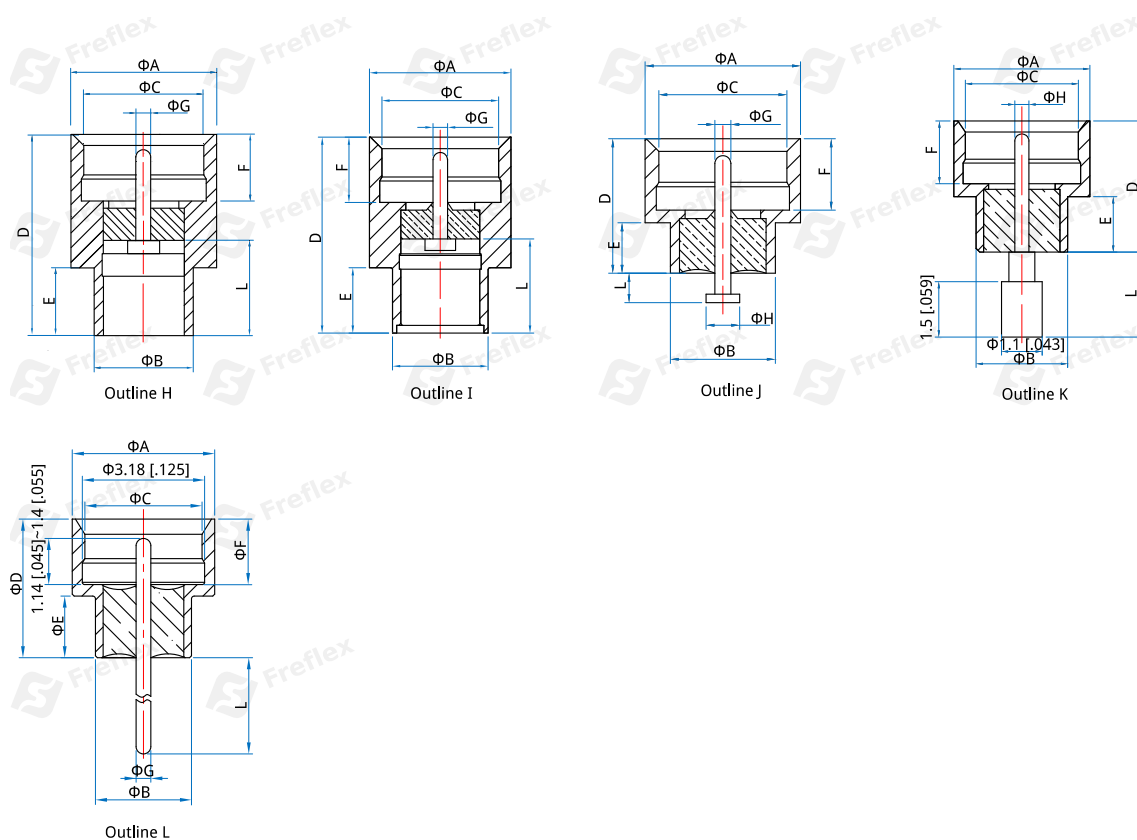
[2] According to customer requirements, it can reach 96 hours.

Mechanical

RF Connector:	SMP male
Mating Life Cycle:	500 cycles
Detent Mode:	Limited detent
Outer Conductor:	Gold plated kovar alloy (4J29) (Outline A) Gold-plated and nickel-plated kovar alloy (4J29)
Dielectric:	Glass
Inner Conductor:	Gold plated kovar alloy (4J29) (Outline A) Gold-plated and nickel-plated kovar alloy (4J29)

Outline Drawings





Unit: mm [in]

Tolerance: $\pm 0.2\text{mm}$ [$\pm 0.008\text{in}$]

Part Number	A	B	C	D	E	F	G	H	L	Outline Drawings
FCPL-MO-M38-01	4.2 [.165]	2.5 [.098]	-	4.55 [.179]	1.5 [.059]	2.8 [.11]	0.38 [.015]	1.8 [.071]		Outline A
FCPL-MO-M38-02	3.7 [.146]	2.5 [.098]	-	3.6 [.142]	1.5 [.059]	1.7 [.067]	0.38 [.015]	2.8 [.11]		Outline A
FCPL-MO-M38-03	3.7 [.146]	2.5 [.098]	-	3.6 [.142]	1.6 [.063]	-	0.38 [.015]	1.6 [.063]	-	Outline A
FCPL-MO-M38-04	3.7 [.146]	2.5 [.098]	3.05 [.12]	3.6 [.142]	1.5 [.059]	1.8 [.071]	0.38 [.015]	1.3 [.051]	-	Outline B
FCPL-MO-M38-05	3.7 [.146]	2.5 [.098]	3.05 [.12]	3.6 [.142]	1.5 [.059]	1.7 [.067]	0.38 [.015]	1.3 [.051]	-	Outline B
FCPL-MO-M38-06	3.7 [.146]	2.5 [.098]	-	3.1 [.146]	1 [.039]	1.8 [.071]	0.38 [.015]	1.3 [.051]	-	Outline A
FCPL-MO-M38-07	3.7 [.146]	2.5 [.098]	3.05 [.12]	7.7 [.303]	5.8 [.228]	1.7 [.067]	0.38 [.015]	1.5 [.059]	-	Outline B
FCPL-MO-M38-08	4.2 [.165]	2.5 [.098]	3.05 [.12]	4.6 [.181]	1.5 [.059]	2.8 [.11]	0.38 [.015]	1.35 [.053]	-	Outline B
FCPL-MO-M38-09	4.2 [.165]	2.5 [.098]	3.05 [.12]	4.6 [.181]	1.5 [.059]	2.8 [.11]	0.38 [.015]	1.25 [.049]	-	Outline B
FCPL-MO-M38-10	3.7 [.146]	2.5 [.098]	3.05 [.12]	3.6 [.142]	1.5 [.059]	1.8 [.071]	0.38 [.015]	1 [.039]	-	Outline B
FCPL-MO-M38-11	3.7 [.146]	2.5 [.098]	3.05 [.12]	3.6 [.142]	1.5 [.059]	1.8 [.071]	0.38 [.015]	0.6 [.024]	-	Outline B
FCPL-MO-M38-12	3.7 [.146]	2.5 [.098]	3.05 [.12]	3.6 [.142]	1.5 [.059]	1.8 [.071]	0.38 [.015]	2 [.079]	-	Outline B
FCPL-MO-M38-13	3.7 [.146]	2.5 [.098]	3.05 [.12]	3.6 [.142]	1.5 [.059]	1.7 [.067]	0.38 [.015]	0.5 [.02]	-	Outline B
FCPL-MO-M38-14	4.8 [.189]	2.5 [.098]	3.05 [.12]	4.6 [.181]	1.5 [.059]	2.8 [.11]	0.38 [.015]	1.8 [.071]	-	Outline B
FCPL-MO-M38-15	3.7 [.146]	2.5 [.098]	3.05 [.12]	3.6 [.142]	1.5 [.059]	1.8 [.071]	0.38 [.015]	1 [.039]	-	Outline B
FCPL-MO-M38-16	3.7 [.146]	2.5 [.098]	3.05 [.12]	3.6 [.142]	1.5 [.059]	1.7 [.067]	0.38 [.015]	1 [.039]	-	Outline B
FCPL-MO-M38-17	3.7 [.146]	2.49 [.098]	3.05 [.12]	3.6 [.142]	1.5 [.059]	1.8 [.071]	0.38 [.015]	1.5 [.059]	-	Outline B
FCPL-MO-M38-18	4.18 [.165]	2.49 [.098]	3.05 [.12]	4.58 [.18]	1.52 [.06]	2.74 [.108]	0.38 [.015]	1.78 [.07]	-	Outline B
FCPL-MO-M38-19	4.2 [.165]	2.5 [.098]	3.05 [.12]	4.6 [.181]	1.5 [.059]	2.8 [.11]	0.38 [.015]	1.9 [.075]	-	Outline B
FCPL-MO-M38-20	3.7 [.146]	2.5 [.098]	3.05 [.12]	3.6 [.142]	1.5 [.059]	1.8 [.071]	0.38 [.015]	2.4 [.094]	-	Outline B

FCPL-MO-M38-21	4.2 [.165]	2.5 [.098]	3.05 [.12]	4.6 [.181]	1.5 [.059]	2.8 [.11]	0.38 [.015]	1.8 [.071]	-	Outline B
FCPL-MO-M40-01	3.7 [.146]	2.5 [.098]	3.05 [.12]	3.6 [.142]	1.5 [.059]	1.8 [.071]	0.4 [.016]	1.7 [.067]	-	Outline B
FCPL-MO-M38-22	3.7 [.146]	2.5 [.098]	3.05 [.12]	3.6 [.142]	1.6 [.063]	1.7 [.067]	0.38 [.015]	1.1 [.043]	-	Outline B
FCPL-MO-M40-02	3.7 [.146]	2.5 [.098]	3.05 [.12]	3.6 [.142]	1.5 [.059]	1.8 [.071]	0.4 [.016]	1.3 [.051]	-	Outline B
FCPL-MO-M38-23	4.2 [.165]	2.5 [.098]	3.05 [.12]	4.6 [.181]	1.5 [.059]	2.8 [.11]	0.38 [.015]	2.3 [.091]	-	Outline B
FCPL-MO-M38-24	3.7 [.146]	2.5 [.098]	3.05 [.12]	3.6 [.142]	1.5 [.059]	1.7 [.067]	0.38 [.015]	1.3 [.051]	-	Outline B
FCPL-MO-M38-25	4.2 [.165]	2.5 [.098]	3.05 [.12]	4.6 [.181]	1.5 [.059]	2.8 [.11]	0.38 [.015]	4 [.157]	-	Outline B
FCPL-MO-M38-26	4.2 [.165]	2.5 [.098]	3.05 [.12]	4.6 [.181]	1.5 [.059]	2.8 [.11]	0.38 [.015]	1.35 [.053]	-	Outline B
FCPL-MO-M38-27	3.7 [.146]	2.5 [.098]	3.05 [.12]	3.6 [.142]	1.5 [.059]	1.7 [.067]	0.38 [.015]	1.3 [.051]	-	Outline B
FCPL-MO-M38-28	3.7 [.146]	2.5 [.098]	3.05 [.12]	3.6 [.142]	1.5 [.059]	1.8 [.071]	0.38 [.015]	1.5 [.059]	-	Outline B
FCPL-MO-M38-29	4.2 [.165]	2.5 [.098]	3.05 [.12]	4.6 [.181]	1.5 [.059]	2.8 [.11]	0.38 [.015]	1.3 [.051]	-	Outline B
FCPL-MO-M38-30	4 [.157]	2.4 [.094]	3.05 [.12]	4.6 [.181]	1.5 [.059]	2.7 [.106]	0.38 [.015]	2.5 [.098]	-	Outline B
FCPL-MO-M38-31	3.7 [.146]	2.5 [.098]	3.05 [.12]	3.55 [.14]	1.5 [.059]	1.7 [.067]	0.38 [.015]	1.3 [.051]	-	Outline B
FCPL-MO-M38-32	3.7 [.146]	2.5 [.098]	3.05 [.12]	4.6 [.181]	1.5 [.059]	2.8 [.11]	0.38 [.015]	1.3 [.051]	-	Outline B
FCPL-MO-M38-33	3.7 [.146]	2.5 [.098]	3.05 [.12]	3.6 [.142]	1.5 [.059]	1.8 [.071]	0.38 [.015]	2.8 [.11]	-	Outline B
FCPL-MO-M38-34	3.7 [.146]	2.5 [.098]	3.05 [.12]	3.6 [.142]	1.5 [.059]	1.7 [.067]	0.38 [.015]	1.3 [.051]	-	Outline B
FCPL-MO-M38-35	3.7 [.146]	2.5 [.098]	3.05 [.12]	3.6 [.142]	1.5 [.059]	1.7 [.067]	0.38 [.015]	1.8 [.071]	-	Outline B
FCPL-MO-M39-01	4.2 [.165]	2.5 [.098]	3.05 [.12]	4.55 [.179]	1.5 [.059]	1.8 [.071]	0.39 [.015]	1 [.039]	-	Outline B
FCPL-MO-M38-36	4.2 [.165]	2.5 [.098]	3.05 [.12]	4.6 [.181]	1.5 [.059]	2.8 [.11]	0.38 [.015]	3 [.118]	-	Outline B
FCPL-MO-M38-37	3.7 [.146]	2.5 [.098]	3.05 [.12]	3.6 [.142]	1.6 [.063]	1.75 [.069]	0.38 [.015]	1.66 [.065]	-	Outline B
FCPL-MO-M40-03	3.7 [.146]	2.5 [.098]	3 [.118]	3.6 [.142]	1.5 [.059]	1.8 [.071]	0.4 [.016]	1.5 [.059]	-	Outline B
FCPL-MO-M38-38	3.7 [.146]	2.5 [.098]	3.05 [.12]	3.6 [.142]	1.5 [.059]	1.8 [.071]	0.38 [.015]	0.8 [.031]	-	Outline B
FCPL-MO-M38-39	4.2 [.165]	2.5 [.098]	3.05 [.12]	4.55 [.179]	1.5 [.059]	2.8 [.11]	0.38 [.015]	1.8 [.071]	-	Outline B
FCPL-MO-M38-40	3.7 [.146]	2.5 [.098]	3.05 [.12]	3 [.118]	1 [.039]	1.7 [.067]	0.38 [.015]	1.27 [.05]	-	Outline B
FCPL-MO-M38-41	3.7 [.146]	2.5 [.098]	3.05 [.12]	3.6 [.142]	1.5 [.059]	1.8 [.071]	0.38 [.015]	3 [.118]	1.6 [.063]	Outline C
FCPL-MO-M38-42	3.7 [.146]	2.5 [.098]	3.05 [.12]	3.6 [.142]	1.5 [.059]	1.8 [.071]	0.38 [.015]	0.6 [.024]	1 [.039]	Outline D
FCPL-MO-M38-43	4.2 [.165]	5 [.197]	3.05 [.12]	4.1 [.161]	2.5 [.098]	2.7 [.106]	0.38 [.015]	-	0.1 [.004]	Outline E
FCPL-MO-M38-44	3.7 [.146]	2.5 [.098]	3.05 [.12]	3.6 [.142]	1.5 [.059]	1.7 [.067]	0.23 [.009]	0.38 [.015]	1 [.039]	Outline F
FCPL-MO-M38-45	3.7 [.146]	2.5 [.098]	3.05 [.12]	3.55 [.14]	1.5 [.059]	1.7 [.067]	0.25 [.01]	0.38 [.015]	0.7 [.028]	Outline F
FCPL-MO-M38-46	4.2 [.165]	2.5 [.098]	3.05 [.12]	4.6 [.181]	1.5 [.059]	2.8 [.11]	0.3 [.012]	0.38 [.015]	0.95 [.037]	Outline F
FCPL-MO-M38-47	3.7 [.146]	2.5 [.098]	3.05 [.12]	3.6 [.142]	1.5 [.059]	1.7 [.067]	0.3 [.012]	0.38 [.015]	2 [.079]	Outline F
FCPL-MO-M38-48	4.2 [.165]	2.5 [.098]	3.05 [.12]	4.55 [.179]	1.5 [.059]	2.8 [.11]	0.3 [.012]	0.38 [.015]	0.95 [.037]	Outline F
FCPL-MO-M38-49	3.7 [.146]	2.5 [.098]	3.05 [.12]	3.55 [.14]	1.5 [.059]	1.7 [.067]	0.3 [.012]	0.38 [.015]	2 [.079]	Outline F
FCPL-MO-M38-50	4.2 [.165]	2.5 [.098]	3.05 [.12]	4.55 [.179]	1.5 [.059]	2.8 [.11]	0.3 [.012]	0.38 [.015]	0.95 [.037]	Outline F
FCPL-MO-M40-04	5 [.197]	4 [.157]	3.05 [.12]	8.35 [.329]	4.55 [.179]	2.8 [.11]	0.4 [.016]	-	2 [.079]	Outline G
FCPL-MO-M38-51	3.7 [.146]	2.5 [.098]	3.05 [.12]	6.3 [.248]	1.7 [.067]	1.7 [.067]	-	0.38 [.015]	3.9 [.154]	Outline H
FCPL-MO-M38-52	3.7 [.146]	2.5 [.098]	3.05 [.12]	5.1 [.201]	1.7 [.067]	1.7 [.067]	-	0.38 [.015]	2.1 [.083]	Outline H
FCPL-MO-M38-53	3.7 [.146]	2.5 [.098]	3.05 [.12]	5.1 [.201]	1.7 [.067]	1.7 [.067]	0.38 [.015]	-	2.45 [.096]	Outline I
FCPL-MO-M38-54	3.7 [.146]	2.5 [.098]	3.05 [.12]	3.2 [.126]	1.2 [.047]	1.7 [.067]	0.38 [.015]	0.8 [.031]	0.7 [.028]	Outline J
FCPL-MO-M38-55	3.7 [.146]	2.5 [.098]	3.05 [.12]	3.6 [.142]	1.5 [.059]	1.7 [.067]	-	0.38 [.015]	2.3 [.091]	Outline K
FCPL-MO-M38-56	3.7 [.146]	2.5 [.098]	3.05 [.12]	3.6 [.142]	1.6 [.063]	1.7 [.067]	0.38 [.015]	-	7 [.276]	Outline L