



1770-5588

MIL-DTL-83513 Type Micro-D Hermetic Connectors

O-ring Seal, Pin-Socket, Bulkhead Feed-thru



O-Ring Mounting eliminates the cost of soldering the connector to a bulkhead.

Kovar® Shells and Contacts comply with applicable MIL-DTL-83513 requirements and are 100% intermateable with standard connectors.

HOW TO ORDER

Series	Finish	Shell Size	O-Ring Location	O-Ring Material
1770-5588 Hermetic, O-ring Seal, Pin-Socket, Bulkhead Feedthrough Micro-D	H = Nickel	Contact Quantity	P = Pin Side S = Socket Side	C (****) = Conductive Elastomer E = EPDM (Ethylene-Propylene) V = Viton N = Nitrile (Buna-N) S = Silicone (ZZ-R-765) B = Butyl Rubber (IIR) K = Kalrez (FFKM)
Sample Part Number				
1770-5588	H	-37	S	-V

DIMENSIONS

Number of Contacts	A Max	B Bsc	C Max	D Max	E Max	F Bsc	G Max	H Max	J Max	K Max	L Max	M ±.005	N ±.005
9	1.488 (37.80)	0.565 (14.35)	0.250 (6.35)	0.728 (18.49)	0.675 (17.15)	1.011 (25.68)	0.400 (10.16)	0.334 (8.48)	0.240 (6.10)	0.184 (4.67)	1.260 (32.00)	0.735 (18.67)	0.260 (6.60)
15	1.638 (41.61)	0.715 (18.16)	0.250 (6.35)	0.878 (22.30)	0.675 (17.15)	1.161 (29.49)	0.550 (13.97)	0.484 (12.29)	0.240 (6.10)	0.184 (4.67)	1.420 (36.07)	0.885 (22.48)	0.260 (6.60)
21	1.788 (45.42)	0.865 (21.97)	0.250 (6.35)	1.078 (27.38)	0.675 (17.15)	1.311 (33.30)	0.700 (17.78)	0.634 (16.10)	0.240 (6.10)	0.184 (4.67)	1.570 (39.88)	1.085 (27.56)	0.260 (6.60)
25	1.888 (47.96)	0.965 (24.51)	0.250 (6.35)	1.128 (28.65)	0.675 (17.15)	1.411 (35.84)	0.800 (20.32)	0.734 (18.64)	0.240 (6.10)	0.184 (4.67)	1.670 (42.42)	1.135 (28.83)	0.260 (6.60)
31	2.038 (51.77)	1.115 (28.32)	0.250 (6.35)	1.278 (32.46)	0.675 (17.15)	1.561 (39.65)	0.950 (24.13)	0.884 (22.45)	0.240 (6.10)	0.184 (4.67)	1.820 (46.23)	1.285 (32.64)	0.260 (6.60)
37	2.188 (55.58)	1.265 (32.13)	0.250 (6.35)	1.428 (36.27)	0.675 (17.15)	1.711 (43.46)	1.100 (27.94)	1.034 (26.26)	0.240 (6.10)	0.184 (4.67)	1.990 (50.55)	1.435 (36.45)	0.260 (6.60)
51	2.138 (54.31)	1.215 (30.86)	0.310 (7.87)	1.378 (35.00)	0.715 (18.16)	1.661 (42.19)	1.050 (26.67)	0.984 (24.99)	0.290 (7.37)	0.224 (5.69)	1.930 (49.02)	1.385 (35.18)	0.320 (8.13)
51-2	2.538 (64.47)	1.615 (41.02)	0.250 (6.35)	1.778 (45.16)	0.675 (17.15)	2.061 (52.35)	1.451 (36.86)	1.384 (35.15)	0.240 (6.10)	0.184 (4.67)	2.345 (59.56)	1.785 (45.34)	0.260 (6.60)
67	2.950 (74.93)	2.015 (51.18)	0.250 (6.35)	2.180 (55.37)	0.675 (17.15)	2.460 (62.48)	1.850 (46.99)	1.784 (45.31)	0.240 (6.10)	0.184 (4.67)	2.710 (68.83)	2.190 (55.63)	0.260 (6.60)
69	2.600 (66.04)	1.515 (38.48)	0.310 (7.87)	1.678 (42.62)	0.715 (18.16)	2.050 (52.07)	1.350 (34.29)	1.284 (32.61)	0.290 (7.37)	0.224 (5.69)	2.230 (56.64)	1.685 (42.80)	0.320 (8.13)
100	2.820 (71.63)	1.800 (45.72)	0.330 (8.38)	2.002 (50.85)	0.795 (20.19)	2.312 (58.72)	1.451 (36.86)	1.384 (35.15)	0.325 (8.25)	0.270 (6.86)	2.575 (65.41)	2.010 (51.05)	0.340 (8.64)

CONDUCTIVE O-RING MATERIAL OPTIONS

Number	Material	Eqp't Shield Req't (TYP)
C1224	Silver in silicone	> 120 dB
C1221	Silver in fluoro-silicone	> 120 dB
C6502	Nickel-plated aluminum in silicone	> 100 dB
C6503	Nickel-plated aluminum in fluorosilicone	> 100 dB
C1285	Silver-plated aluminum in silicone	90-110 dB
C1287	Silver-plated aluminum in fluorosilicone	90-110 dB
C1215	Silver-plated copper in silicone	105-120 dB
C1217	Silver-plated copper in fluoro-silicone	105-120 dB
C1298*	Silver-plated aluminum in fluorosilicone	90-110 dB

All numbers are cho-seal compounds

Consult factory for other options

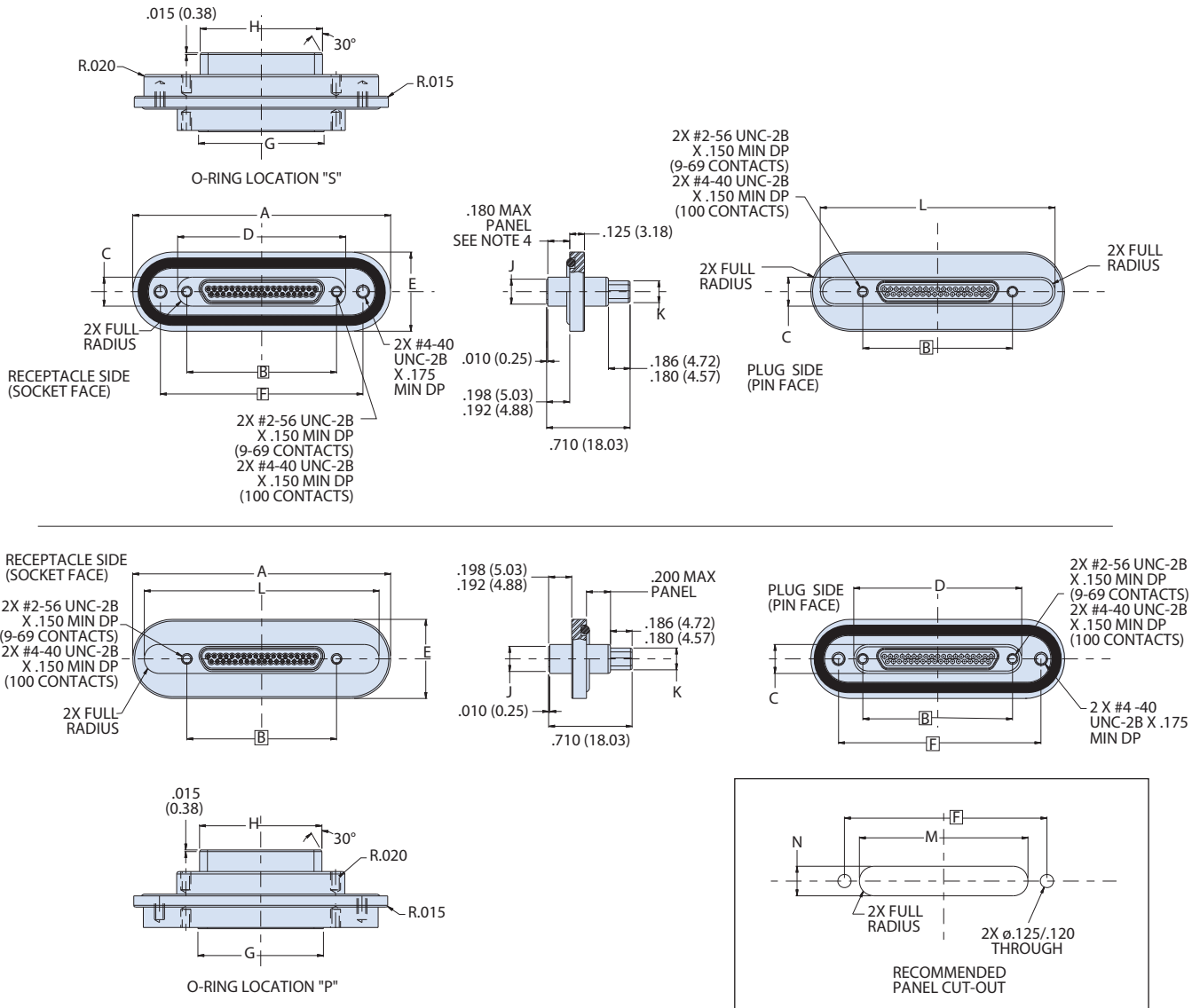
* = Standard o-ring supplied for most aircraft & marine military applications

1770-5588

MIL-DTL-83513 Type Micro-D Hermetic Connectors O-ring Seal, Pin-Socket, Bulkhead Feed-thru



Micro-D
Hermetic



H

Notes

- Glenair 1770-5588 will mate with any QPL MIL-DTL-83513 plug / receptacle of the same size and opposite contact gender
- Test performance:
 - DWV - 150 vac pin-to-shell
 - I.R. - 5,000 Megohms min @ 500vdc
 - Hermeticity - $<1 \times 10^{-7}$ ccHe/sec @ 1 atmosphere delta
- Temperature range: -55°C to +125°C (-67°F to 257°F)
- Customer must compensate for accessory hardware clearance (counterbore holes, enlarge cutout, etc) as required

Material/finish

- Shell: Kovar® alloy/electro-deposited nickel
- Socket contacts: Kovar® alloy/ gold plate
- Pin contacts: copper alloy/ gold plate
- Insulator, hermetic: glass beads
- Insulator pin: rigid dielectric
- Interfacial seal: fluorosilicone elastomer
- O-ring: as specified