



177-705H Solder Cup or PC Tail and 177-706H Insulated Wire Micro-D Hermetic Connectors Rear Panel Mount



**MATES
WITH
ALL** **83513**
Pin
Connectors

Fluorosilicone O-Ring 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.

Solder Cup, PC Tail or Pre-Wired and Fully Potted Suitable for #26 gage wire or smaller, solder cup versions feature gold-plated contacts. Choose PC tails for attachment to flex circuits or rigid boards. Solder cup versions are also available pre-wired and potted.

How To Order Hermetic Micro-D Connectors with Solder Cup or PC Tail

Sample Part Number	177-705H	15	SS	U	-V
Series	177-705H Hermetic Micro-D				
Number of Contacts	9, 15, 21, 25, 31, 37, 51-2, 51, 69, 75, 100, 130 (Table I)				
Contact Type	SS - Solder Cup, Socket SP - PC Tail, Socket				
Mounting Threads	U - #4 - 40 UNC M - M3 Metric A - #2-56 UNC				
O-Ring Material	C, E, V, N, S, B, K; Omit for standard fluorosilicone (See Table II)				

How To Order Hermetic Micro-D Connectors with Insulated Wire

Sample Part Number	177-706H	31	S	6	K	1	-30	M	-V
Series	177-706H Hermetic Micro-D								
Number of Contacts	9, 15, 21, 25, 31, 37, 51-2, 51, 69, 75, 100, 130 (Table I)								
Contact Type	S - Socket Contacts, Pre-Wired								
Wire Gage (AWG)	6 - #26 8 - #28 0 - #30								
Wire Type	K - M22759/11 600 Vrms Fluoropolymer (TFE) (Not Available in #30 AWG) J - M22759/33 600 Vrms Modified Cross-Linked Tefzel (ETFE)								
Wire Color	1 - White, 2 - Yellow, 5 - Color-Coded Stripes Per MIL-STD-681 (#26 gage only) 7 - Ten Color Repeat								
Wire Length Inches	Wire Length In Inches. "30" Specifies 30 Inches.								
Mounting Threads	A = #2-56 UNC M = M3 Omit for #4-40 UNC								
O-Ring Material	C, E, V, N, S, B, K; Omit for standard fluorosilicone (See Table II)								

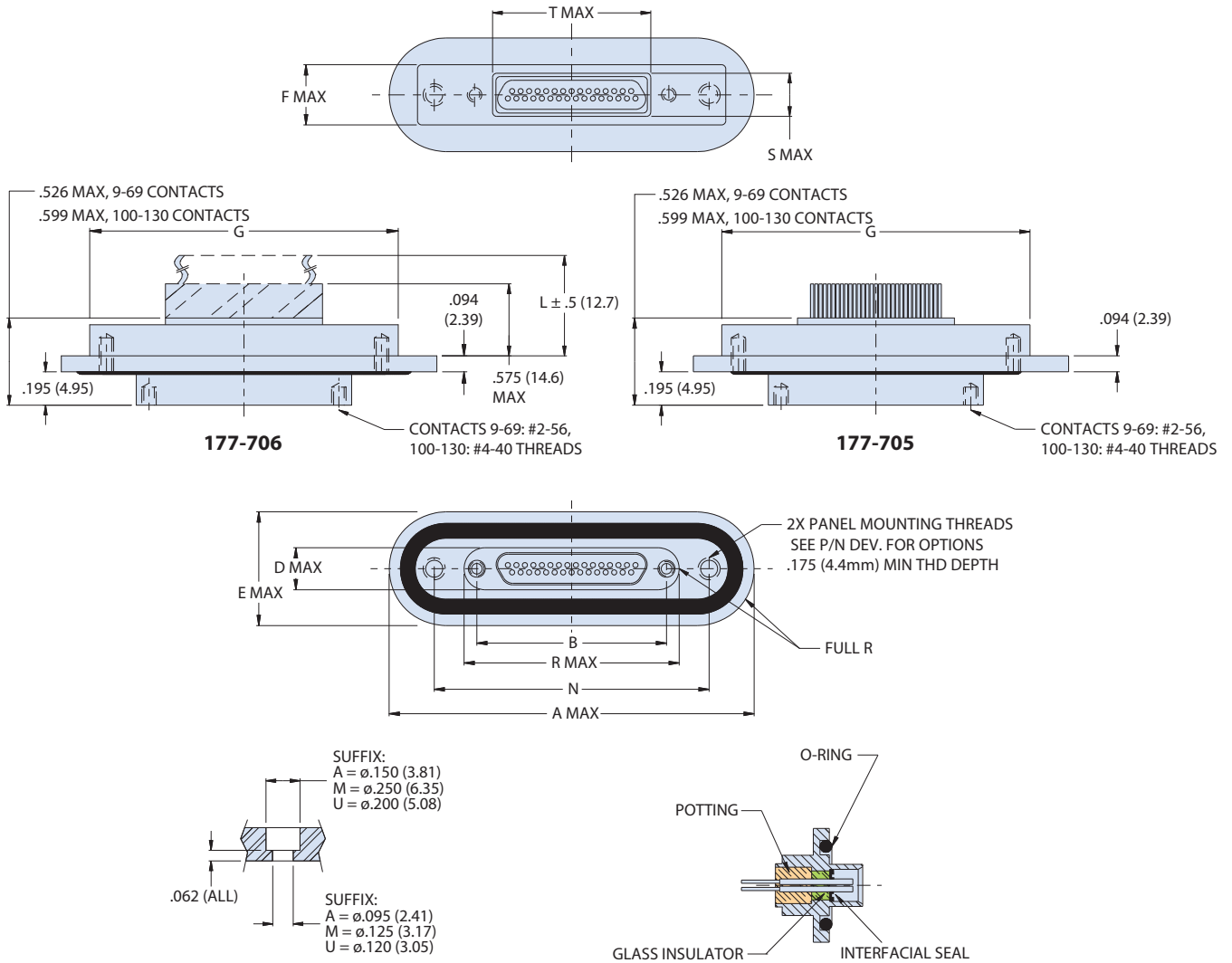
Table II

Designator	Material
C	Fluorosilicone, Conductive (CHOSEAL 1298)
E	EPDM (Ethylene-Propylene)
V	Viton (Fluorocarbon; FKM)
N	Nitrile (Buna-N)
S	Silicone (ZZ-R-765)
B	Butyl Rubber (IIR)
K	Kalrez (FFKM)

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Micro-D
Hermetic



H

Table I: Dimensions

LAYOUT	A MAX	B	D MAX	E MAX	F MAX	G	H± .005	J± .005	N	R MAX	S MAX	T MAX
9	1.488 (37.80)	0.565 (14.35)	0.250 (6.35)	0.675 (17.15)	0.358 (9.09)	1.211 (30.76)	.738 (18.75)	.260 (6.60)	1.011 (25.68)	0.728 (18.49)	0.275 (6.99)	0.410 (10.41)
15	1.638 (41.61)	0.715 (18.16)	0.250 (6.35)	0.675 (17.15)	0.358 (9.09)	1.414 (35.92)	.888 (22.56)	.260 (6.60)	1.161 (29.49)	0.878 (22.30)	0.275 (6.99)	0.540 (13.72)
21	1.788 (45.42)	0.865 (21.97)	0.250 (6.35)	0.675 (17.15)	0.358 (9.09)	1.550 (39.37)	1.038 (26.37)	.260 (6.60)	1.311 (33.30)	1.028 (26.11)	0.275 (6.99)	0.710 (18.03)
25	1.888 (47.96)	0.965 (24.51)	0.250 (6.35)	0.675 (17.15)	0.358 (9.09)	1.650 (41.91)	1.138 (28.91)	.260 (6.60)	1.411 (35.84)	1.128 (28.65)	0.275 (6.99)	0.810 (20.57)
31	2.038 (51.77)	1.115 (28.32)	0.250 (6.35)	0.675 (17.15)	0.358 (9.09)	1.814 (46.08)	1.288 (32.72)	.260 (6.60)	1.561 (39.65)	1.278 (32.46)	0.275 (6.99)	0.955 (24.26)
37	2.188 (55.58)	1.265 (32.13)	0.250 (6.35)	0.675 (17.15)	0.358 (9.09)	1.984 (50.39)	1.438 (36.53)	.260 (6.60)	1.711 (43.46)	1.428 (36.27)	0.275 (6.99)	1.095 (27.81)
51-2 (2 ROW)	2.538 (64.47)	1.615 (41.02)	0.250 (6.35)	0.675 (17.15)	0.358 (9.09)	2.334 (59.28)	1.788 (45.42)	.260 (6.60)	2.061 (52.35)	1.778 (45.16)	0.275 (6.99)	1.650 (41.91)
51 (3 ROW)	2.138 (54.31)	1.215 (30.86)	0.320 (8.13)	0.715 (18.16)	0.398 (10.11)	1.920 (48.77)	1.388 (35.26)	.330 (8.38)	1.661 (42.19)	1.378 (35.00)	0.295 (7.49)	1.095 (27.81)
69	2.600 (66.04)	1.515 (38.48)	0.320 (8.13)	0.715 (18.16)	0.398 (10.11)	2.330 (59.18)	1.695 (43.05)	.330 (8.38)	2.050 (52.07)	1.685 (42.80)	0.295 (7.49)	1.400 (35.56)
75	2.750 (69.85)	1.705 (43.31)	0.320 (8.13)	0.715 (18.16)	0.398 (10.11)	2.520 (64.01)	1.885 (47.88)	.330 (8.38)	2.250 (57.15)	1.875 (47.63)	0.295 (7.49)	1.500 (38.10)
100	2.820 (71.63)	1.800 (45.72)	0.330 (8.38)	0.795 (20.19)	0.555 (14.10)	2.569 (65.25)	2.012 (51.10)	.340 (8.64)	2.312 (58.72)	2.002 (50.85)	0.355 (9.02)	1.675 (42.55)
130	3.120 (79.25)	2.150 (54.61)	0.330 (8.38)	0.795 (20.19)	0.555 (14.10)	2.795 (70.99)	2.360 (59.94)	.340 (8.64)	2.600 (66.04)	2.350 (59.69)	0.355 (9.02)	2.025 (51.44)



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Table III: PC Tail Lengths

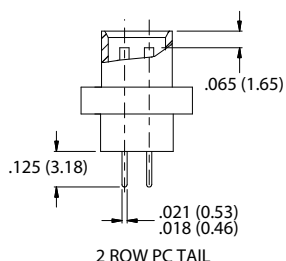
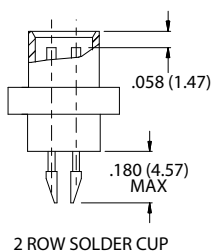
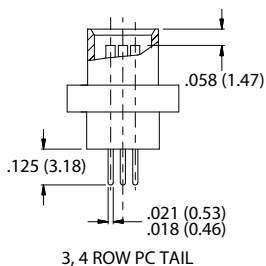
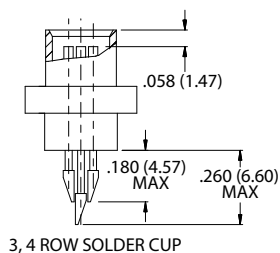
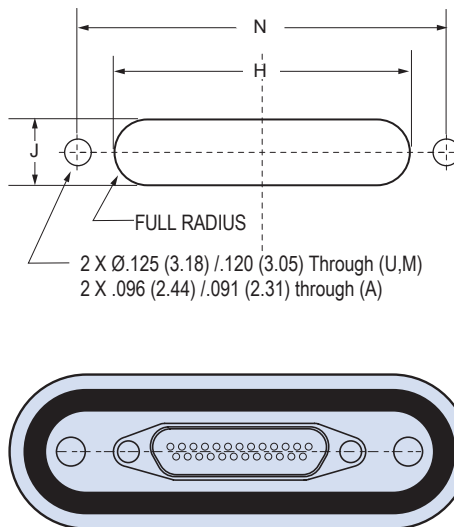


Table IV: Panel Cutout Dimensions for 177-705 and 177-706



Layout	N		H		J	
	In. $\pm .003$	mm. ± 0.08	In. $+0.005/-0.0$	mm. $+0.13/-0.0$	In. $+0.005/-0.0$	mm. $+0.13/-0.0$
9	1.011	25.69	.738	18.75	.250	6.35
15	1.161	29.50	.888	22.56	.250	6.35
21	1.311	33.31	1.038	26.37	.250	6.35
25	1.411	35.85	1.138	28.91	.250	6.35
31	1.561	39.66	1.288	32.72	.250	6.35
37	1.711	43.47	1.438	36.53	.250	6.35
51-2 (2 ROW)	2.061	52.35	1.788	45.52	.250	6.35
51 (3 ROW)	1.661	42.19	1.388	35.26	.320	8.12
69	2.050	52.07	1.695	43.05	.320	8.12
75	2.250	57.15	1.885	47.88	.320	8.12
100	2.312	58.72	2.012	51.10	.340	8.63
130	2.600	66.04	2.360	59.94	.340	8.63

H

NOTES:

For panel thickness greater than .062 (1.57) thick, the mounting holes for -100 and -130 must be counter-bored as shown when mating connector has a backshell to prevent interference. Diameters shown are for socket-head cap screws. User to adjust for different screw type.

