



## 177-705H and 177-706H MIL-DTL-83513 Type Micro-D Hermetic Connectors Rear Panel Mount with O-Ring



**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 SOLDER CUP AND PC TAIL CONNECTORS

Series	Layout Number of Contacts	Contact Type	Mounting Threads	O-Ring Material
<b>177-705H</b> Micro-D Hermetic Socket Receptacle, Rear Panel Mount with O-Ring, Solder Cup or PC Tail	<b>9</b> <b>15</b> <b>21</b> <b>25</b> <b>31</b> <b>37</b> <b>51-2</b> <b>51</b> <b>100</b>	<b>SS</b> – Solder Cup, Socket <b>SP</b> – PC Tail, Socket	<b>U</b> – #4 - 40 UNC <b>M</b> – M3 Metric <b>A</b> – #2-56 UNC	<b>C</b> = Fluorosilicone, Conductive (Choseal 1298) <b>E</b> = Epdm (Ethylene-Propylene) <b>V</b> = Viton (Fluorocarbon; Fkm) <b>N</b> = Nitrile (Buna-N) <b>S</b> = Silicone (ZZ-R-765) <b>B</b> = Butyl Rubber (Iir) <b>K</b> = Kalrez (FFKM) <b>Omit</b> for Standard Fluorosilicone
<i>Sample Part Number</i>				
<b>177-705H</b>	<b>15</b>	<b>SS</b>	<b>U</b>	<b>-V</b>

### HOW TO ORDER PRE-WIRED CONNECTORS

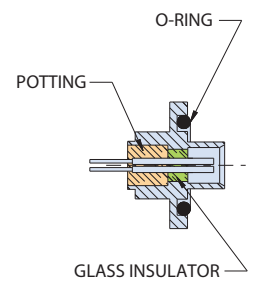
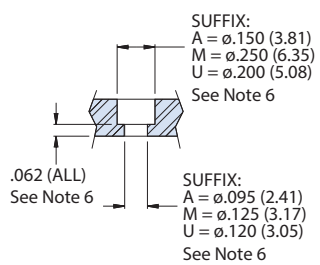
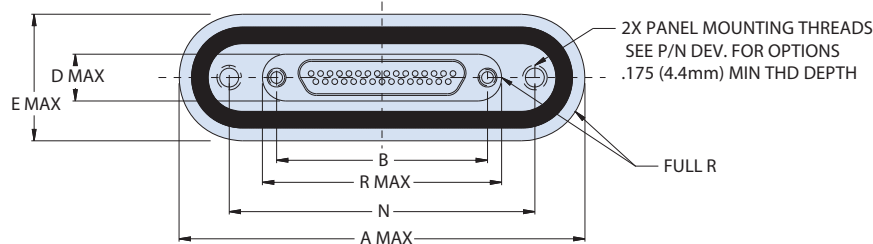
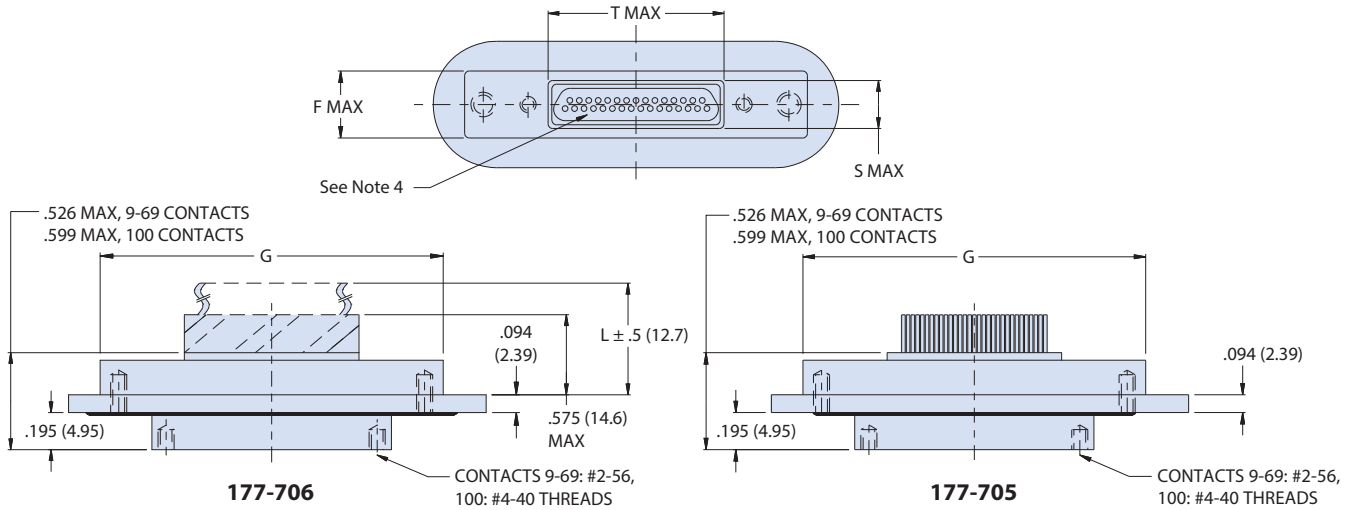
Series	Layout	Contact Type	Wire Gage (AWG)	Wire Type	Wire Color	Wire Length In Inches	Mounting Threads	O-Ring Material
<b>177-706H</b>	<b>9</b> <b>15</b> <b>21</b> <b>25</b> <b>31</b> <b>37</b> <b>51-2</b> <b>51</b> <b>100</b>	<b>S</b> – Socket Contacts Pre-Wired	<b>6</b> – #26 <b>8</b> – #28 <b>0</b> – #30	<b>K</b> – M22759/11 600 Vrms Teflon (TFE) (Not Available in #30 AWG) <b>J</b> – M22759/33 600 Vrms Modified Cross-Linked Tefzel (ETFE)	<b>1</b> – White <b>2</b> – Yellow <b>5</b> – Color-Coded Stripes Per MIL-STD-681 (#26 gage only) <b>7</b> – Ten Color Repeat	<b>18</b> Wire Length In Inches. "18" Specifies 18 Inches.	<b>A</b> - #2-56 UNC <b>M</b> - M3 Metric, Omit for #4-40 UNC	<b>C</b> = Fluorosilicone, Conductive <b>E</b> = EPDM (Ethylene-Propylene) <b>V</b> = Viton (Fluorocarbon; FKM) <b>N</b> = Nitrile (BUNA-N) <b>S</b> = Silicone (ZZ-R-765) <b>B</b> = Butyl Rubber (IIR) <b>K</b> = Kalrez (FFKM) <b>Omit</b> for Standard Fluorosilicone
<i>Sample Part Number</i>								
<b>177-706H</b>	<b>25</b>	<b>S</b>	<b>6</b>	<b>K</b>	<b>1</b>	<b>- 18</b>	<b>M</b>	<b>-V</b>

Dimensions in Inches (millimeters) are subject to change without notice.

# 177-705H and 177-706H MIL-DTL-83513 Type Micro-D Hermetic Connectors Rear Panel Mount with O-Ring



MIL-DTL-83513 Type  
Connectors



DIMENSIONS										
LAYOUT	A MAX	B	D MAX	E MAX	F MAX	G	N	R MAX	S MAX	T MAX
<b>9</b>	1.488 (37.80)	0.565 (14.35)	0.250 (6.35)	0.675 (17.15)	0.358 (9.09)	1.254 (31.85)	1.011 (25.68)	0.728 (18.49)	0.275 (6.99)	0.410 (10.41)
<b>15</b>	1.638 (41.61)	0.715 (18.16)	0.250 (6.35)	0.675 (17.15)	0.358 (9.09)	1.414 (35.92)	1.161 (29.49)	0.878 (22.30)	0.275 (6.99)	0.540 (13.72)
<b>21</b>	1.788 (45.42)	0.865 (21.97)	0.250 (6.35)	0.675 (17.15)	0.358 (9.09)	1.564 (39.73)	1.311 (33.30)	1.028 (26.11)	0.275 (6.99)	0.710 (18.03)
<b>25</b>	1.888 (47.96)	0.965 (24.51)	0.250 (6.35)	0.675 (17.15)	0.358 (9.09)	1.664 (42.27)	1.411 (35.84)	1.128 (28.65)	0.275 (6.99)	0.810 (20.57)
<b>31</b>	2.038 (51.77)	1.115 (28.32)	0.250 (6.35)	0.675 (17.15)	0.358 (9.09)	1.814 (46.08)	1.561 (39.65)	1.278 (32.46)	0.275 (6.99)	0.955 (24.26)
<b>37</b>	2.188 (55.58)	1.265 (32.13)	0.250 (6.35)	0.675 (17.15)	0.358 (9.09)	1.984 (50.39)	1.711 (43.46)	1.428 (36.27)	0.275 (6.99)	1.095 (27.81)
<b>51-2 (2 ROW)</b>	2.538 (64.47)	1.615 (41.02)	0.250 (6.35)	0.675 (17.15)	0.358 (9.09)	2.334 (59.28)	2.061 (52.35)	1.778 (45.16)	0.275 (6.99)	1.650 (41.91)
<b>51 (3 ROW)</b>	2.138 (54.31)	1.215 (30.86)	0.310 (7.87)	0.715 (18.16)	0.398 (10.11)	1.920 (48.77)	1.661 (42.19)	1.378 (35.00)	0.295 (7.49)	1.095 (27.81)
<b>100</b>	2.820 (71.63)	1.800 (45.72)	0.330 (8.38)	0.795 (20.19)	0.555 (14.10)	2.569 (65.25)	2.312 (58.72)	2.002 (50.85)	0.355 (9.02)	1.675 (42.55)

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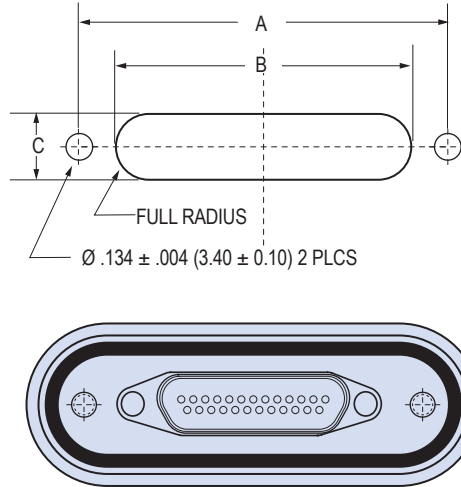
REV. 01.15.19

**K**



177-705H and 177-706H  
MIL-DTL-83513 Type Micro-D Hermetic Connectors  
Rear Panel Mount with O-Ring

PANEL CUTOUT DIMENSIONS FOR 177-705 AND 177-706

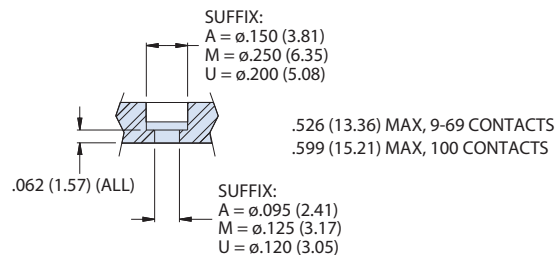


K

Layout	A		B		C	
	In. ± .003	mm. ± 0.08	In. +.005 / -0.0	mm. +0.13 / -0.0	In. +.005 / -0.0	mm. +0.13 / -0.0
9	1.011	25.69	.731	18.56	.252	6.40
15	1.161	29.50	.881	22.37	.252	6.40
21	1.311	33.31	1.031	26.18	.252	6.40
25	1.411	35.85	1.131	28.72	.252	6.40
31	1.561	39.66	1.281	32.53	.252	6.40
37	1.711	43.47	1.431	36.34	.252	6.40
51 2 row	2.061	52.35	1.781	45.24	.252	6.40
51 3 row	1.661	42.19	1.381	35.08	.310	7.87
100	2.312	58.72	2.005	50.93	.330	8.38

NOTES:

For panel thickness greater than .062 (1.57) thick, the mounting holes for -100 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.



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