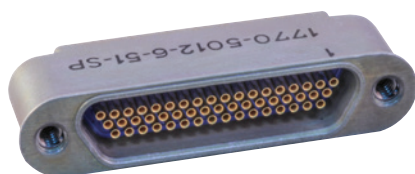




1770-5012

MIL-DTL-83513 Type Lightweight Hermetic Connectors Front Weld Mount Receptacle, Solder cup or PC tail options



**MATES
WITH
All** **83513**
Pin
Connectors

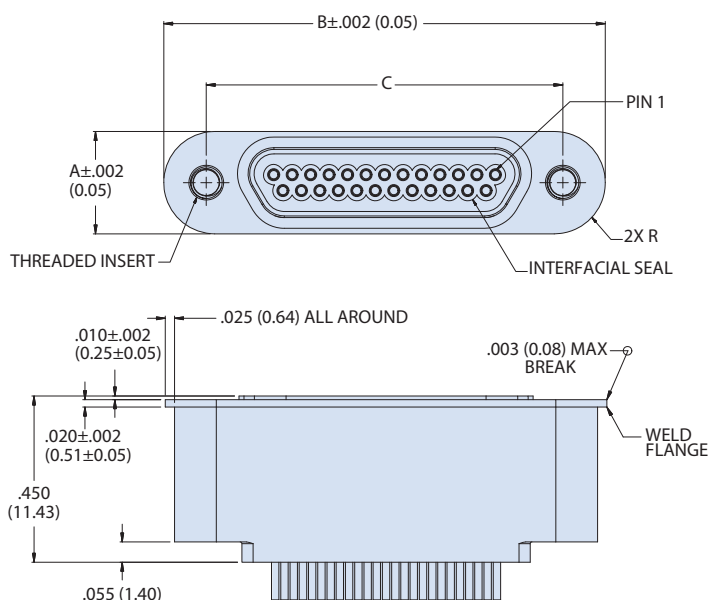
Micro-D Code-Red hermetic encapsulant and application process, provides a lightweight alternative to heavy Kovar shells typically used in glass to metal hermetic connectors while using standard gold-plated copper alloy contacts. Connectors are rated to -65° C to +175° C. Hermeticity of 1×10^{-7} sccHe/sec @ 1 atmosphere. Connectors are 100% intermateable with standard pin connectors. Solder Cup or PC Tail type contacts suitable for #26 gage wire or smaller, solder cup versions feature copper alloy/gold-plated contacts. Choose PC tails for attachment to flex circuits or rigid boards. Solder cup versions available pre-wired. Both contact options are non-removable and back potted. Connector is designed to be laser welded into an electronic chassis wall.

CODE RED™

Part Number Development				
Sample Part Number	1770-5012	-6	-25	-SC
Series	1770-5012 Code Red Hermetic Micro-D			
Material/Finish	3 - 304L Stainless Steel, Passivated 6 - Aluminum Alloy (AL4032), MIL-DTL-5541, Typ I, CL 3			
Insert Arrangement	Pin Counts: 9, 15, 21, 25, 31, 37, and 51 Per MIL-PRF-83513; See page 4 for contact layouts			
Contact Type	SP – socket engagement with PC tail termination SC – socket engagement with solder cup termination			

H

Dimensions			
Number of Contacts	A	B	C Basic
9	.277 (7.04)	.795 (20.19)	.565 (14.35)
15	.277 (7.04)	.945 (24.00)	.715 (18.16)
21	.277 (7.04)	1.095 (27.81)	.865 (21.97)
25	.277 (7.04)	1.195 (30.35)	.965 (24.51)
31	.277 (7.04)	1.345 (34.16)	1.115 (28.32)
37	.277 (7.04)	1.495 (37.97)	1.265 (32.13)
51	.320 (8.13)	1.445 (36.70)	1.215 (30.86)



Notes

- These hermetic pin connectors mate with all standard MIL-DTL-83513 socket connectors of equivalent size.
- Connectors supplied with free running coil thread inserts in shell flange.

Material/finish

- Housing: see part number development
- Contacts: copper alloy/gold plate
- Threaded inserts: stainless steel/passivated
- Insulator: high grade rigid dielectric
- Interfacial seal: fluorosilicone
- Sealing compound: polymer encapsulant

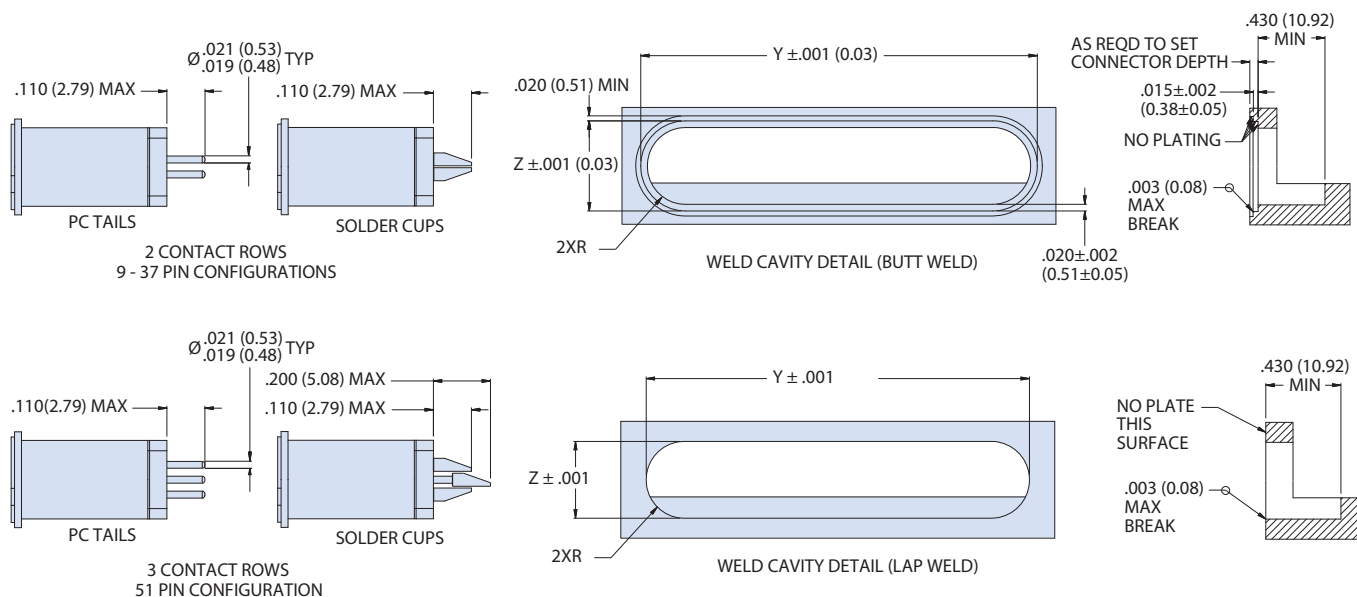
Performance

- Temperature range: -65°C to +175°C
- DWV (sea level): 150VAC; no breakdown
- IR: 5000 megohms minimum
- Hermeticity: 1×10^{-7} cc/sec helium @ 1 Atm differential

1770-5012
MIL-DTL-83513 Type Lightweight Hermetic Connectors
Front Weld Mount Receptacle, Solder cup or PC tail options



Micro-D
Hermetic



Panel Cutout Dimensions				
Number of Contacts	Lap Weld		Butt Weld	
	Y	Z	Y	Z
9	.748 (19.00)	.230 (5.84)	.798 (20.27)	.280 (7.11)
15	.898 (22.81)	.230 (5.84)	.948 (24.08)	.280 (7.11)
21	1.048 (26.62)	.230 (5.84)	1.098 (27.89)	.280 (7.11)
25	1.148 (29.16)	.230 (5.84)	1.198 (30.43)	.280 (7.11)
31	1.298 (32.97)	.230 (5.84)	1.348 (34.24)	.280 (7.11)
37	1.448 (36.78)	.230 (5.84)	1.498 (38.05)	.280 (7.11)
51	1.398 (35.51)	.273 (6.93)	1.448 (36.78)	.323 (8.20)