

**1770-5600**

MIL-DTL-83513 Type Hermetic Connectors Front Panel Mount, Thru-Hole Flange Receptacle, PC Tail or Solder Cup Socket Contacts



**MATES
WITH
All
83513
Pin
Connectors**

Micro-D hermetic connectors feature Kovar® alloy shells, in compliance with applicable MIL-DTL-83513 space requirements, and a matched glass-to-metal seal. Helium leak rate is 1×10^{-7} cc's per second. Connectors are 100% intermateable with standard connectors. 1770-5600 connectors are available with solder cup or PC tail socket contacts. Contacts are Kovar® alloy with gold plating. Front panel mount, O-ring design avoids the expense of soldering. Attachment to panel occurs via through-holes on the connector flange to a recommended #2-56 UNC-2B threaded blind-hole on the mounting panel.

Part Number Development

Sample Part Number	1770-5600	-21	-SS	-1
Series	1770-5600 = Glass-to-Metal Seal Font Mount			
Contact Layout	9, 15, 21, 25, 31, 37, 51			
O-Ring Location	SS = Socket, Solder Cup SP = Socket, PC Tail			
O-Ring Material	1, 2, 3, 4, 5; see Table II			

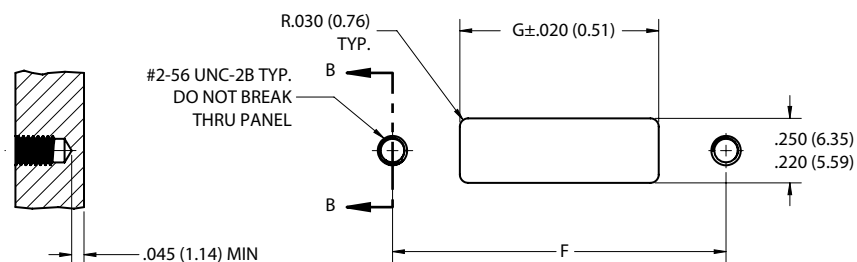
Table II: O-ring Material

Dash #	Material
1	Viton
2	Nitrile
3	Fluorosilicone
4	Silicone
5*	Conductive

* See note 2

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RECOMMENDED PANEL CUT-OUT



SECTION B-B

Notes

- Glenair's 1770-5600 hermetic socket connector mates with all standard MIL-DTL-83513 pin connectors.
- Conductive O-ring material - Chomerics 1215 or equivalent

Performance:

- Hermeticity: 1×10^{-7} sccHe/sec @ 1 atmosphere differential
- DWV: seal level 150 VAC
- IR: 5000 megohms max

Material/finish

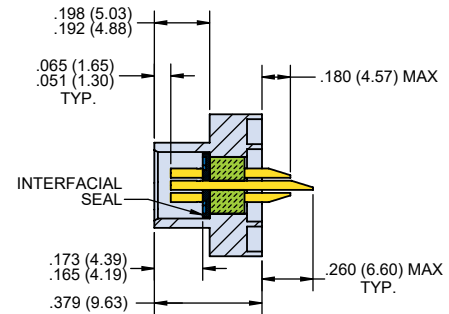
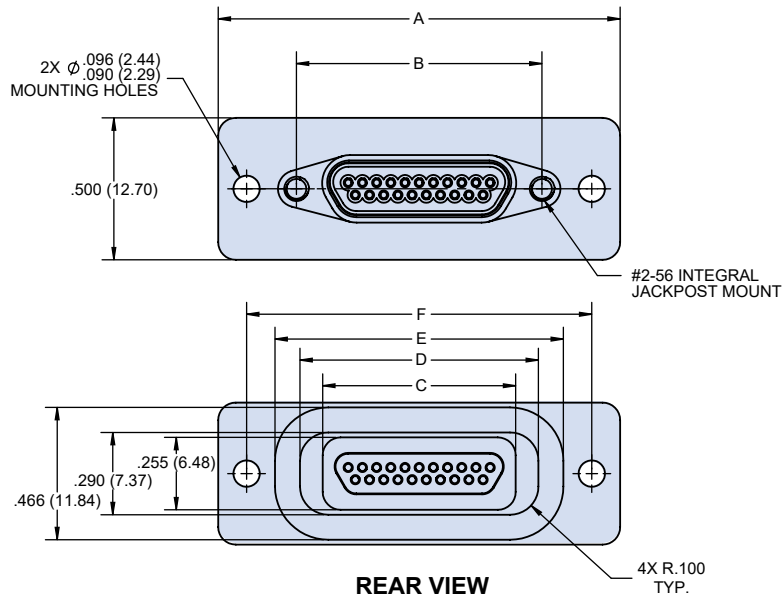
- Shell: Kovar® alloy/electro-deposited nickel
- Socket contacts: Kovar® alloy/ gold plate
- Interfacial seal: fluorosilicone elastomer
- hermetic insulator: full glass
- O-ring: see table II

1770-5600

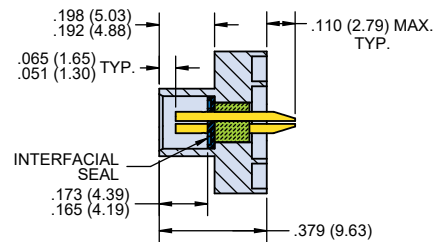
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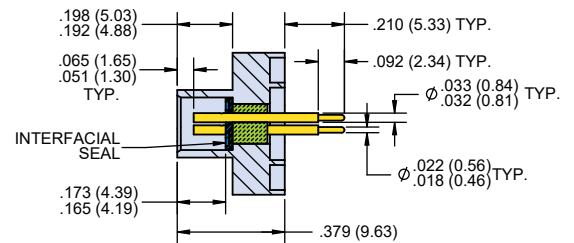
Micro-D
Hermetic



**SOLDER CUP CONTACTS
FOR 51 CONTACTS ONLY**



SOLDER CUP CONTACTS



PC TAILS CONTACTS

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DIMENSIONS

Layout	A		B		C		D		E		Panel Cut-out			
	In.	mm.	In.	mm.	In.	mm.	In.	mm.	In.	mm.	F		G	
9	1.176	29.87	.565	14.35	.380	9.65	.600	15.24	.776	19.71	.976	24.79	.500	12.70
15	1.326	33.68	.715	18.16	.530	13.46	.750	19.05	.926	23.52	1.126	28.60	.650	16.51
21	1.416	35.97	.865	21.97	.680	17.27	.840	21.34	1.016	25.81	1.216	30.89	.725	18.42
25	1.616	41.05	.965	24.51	.830	21.08	1.040	26.42	1.216	30.89	1.416	35.97	.875	22.23
31	1.716	43.59	1.115	28.32	.980	24.89	1.140	28.96	1.316	33.43	1.516	38.51	1.025	26.03
37	1.906	48.41	1.265	32.13	1.130	28.70	1.330	33.78	1.506	38.25	1.706	43.33	1.175	29.85
51	2.006	50.95	1.215	30.86	1.280	32.51	1.430	36.32	1.606	40.79	1.806	45.87	1.325	33.65