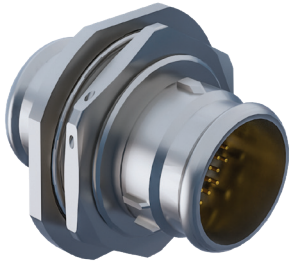


SPACE-GRADE MIL-DTL-38999 TYPE SuperNine® Blind-Mate / ASF Connectors



253-039 Hermetic Bulkhead Feedthrough, Plug, Fixed-Mount,
Roll-On / Roll-Off Nose · MIL-STD-1560 power and signal insert arrangements



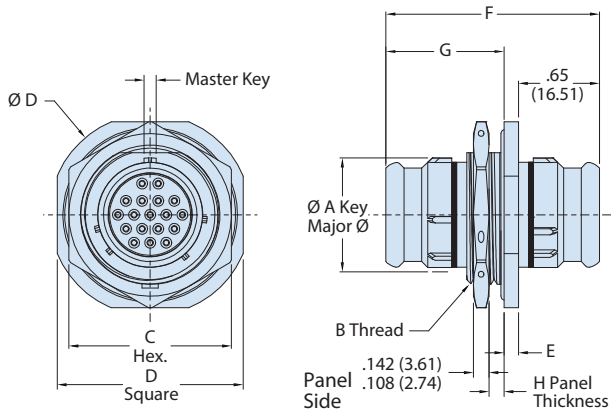
253-039 hermetic bulkhead feed-thru
with roll-on/roll-off nose

HOW TO ORDER								
Sample Part No.	253-039	H7	Z1	15	-18	P	N	-01
Basic Part No.	253-039 = Feedthrough Hermetic Connector							
Mounting Style	H7 = Jam nut mount H8 = Weld mount							
Material/Finish	ZL = CRES, electrodeposited nickel Z1 = CRES, passivated							
Shell Size	11, 13, 15, 17, 19, 21, 23, 25							
Insert Arrangement	Per MIL-STD-1560; symmetrical layouts only, See contact arrangements table							
Contact Type	P = Pin on panel side, socket opposite S = Socket on panel side, pin opposite		PP = Pin - pin SS = Socket - socket					
Alternate Polarization	A, B, C, D, E, N = Normal							
Panel Thickness	Specify per Table III or IV							

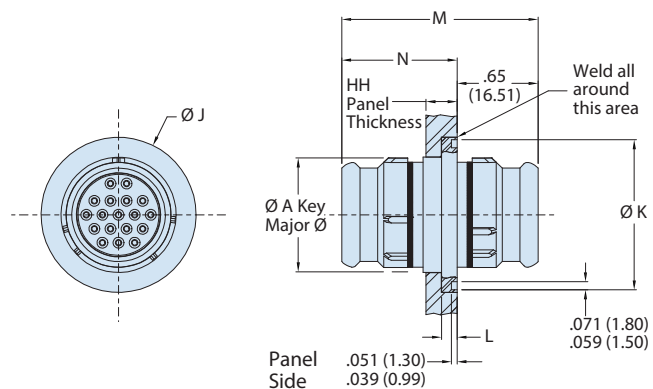
253-039 hermetic feedthroughs mate with 253-015 float-mount receptacles
Space-grade modification codes may be added directly to the end of any valid part number

TABLE I: DIMENSIONS

253-039-H7 Jam-Nut Mount
See Tables I & III



253-039-H8 Weld-Mount Type
See Tables I & IV



Shell Size	Ø A Max	Thread B, Class 2a	C, Max.	D [± .016]	Ø Dd [± .016]	E [± .016]	Ø J [± .006]	Ø K [± .006]	L [± .008]	Ø P [+ .010/- .000]	R [+ .000/- .010]	Ø S [+ .005/- .000]	Ø T [+ .010/- .000]	U [± .005]
11	0.673 (17.09)	.8125-20 UNEF	1.016 (25.81)	1.250 (31.75)	1.375 (34.93)	0.109 (2.77)	1.000 (25.40)	0.960 (24.38)	0.126 (3.20)	0.825 (20.96)	0.771 (19.58)	1.007 (25.58)	0.700 (17.78)	0.126 (3.20)
13	0.798 (20.27)	1.0000-20 UNEF	1.204 (30.58)	1.375 (34.93)	1.500 (38.10)	0.109 (2.77)	1.125 (28.58)	1.085 (27.56)	0.126 (3.20)	1.010 (25.65)	0.955 (24.26)	1.132 (28.75)	0.825 (20.96)	0.126 (3.20)
15	0.923 (23.44)	1.1250-18 UNEF	1.328 (33.73)	1.500 (38.10)	1.625 (41.28)	0.109 (2.77)	1.250 (31.75)	1.210 (30.73)	0.126 (3.20)	1.135 (28.83)	1.085 (27.56)	1.257 (31.93)	0.950 (24.13)	0.126 (3.20)
17	1.048 (26.62)	1.2500-18 UNEF	1.454 (36.93)	1.625 (41.28)	1.750 (44.45)	0.109 (2.77)	1.375 (34.93)	1.335 (33.91)	0.126 (3.20)	1.260 (32.00)	1.210 (30.73)	1.382 (35.10)	1.075 (27.31)	0.126 (3.20)
19	1.173 (29.79)	1.3750-18 UNEF	1.578 (40.08)	1.812 (46.02)	1.938 (49.23)	0.140 (3.56)	1.500 (38.10)	1.460 (37.08)	0.126 (3.20)	1.385 (35.18)	1.335 (33.91)	1.507 (38.28)	1.200 (30.48)	0.126 (3.20)
21	1.298 (32.97)	1.5000-18 UNEF	1.704 (43.28)	1.938 (49.23)	2.062 (52.37)	0.140 (3.56)	1.625 (41.28)	1.585 (40.26)	0.126 (3.20)	1.510 (38.35)	1.460 (37.08)	1.632 (41.45)	1.325 (33.66)	0.126 (3.20)
23	1.423 (36.14)	1.6250-18 UNEF	1.828 (46.43)	2.062 (52.37)	2.188 (55.58)	0.140 (3.56)	1.750 (44.45)	1.710 (43.43)	0.157 (3.99)	1.635 (41.53)	1.585 (40.26)	1.757 (44.63)	1.450 (36.83)	0.157 (3.99)
25	1.548 (39.32)	1.7500-18 UNS	2.016 (51.21)	2.188 (55.58)	2.312 (58.72)	0.140 (3.56)	1.925 (48.90)	1.885 (47.88)	0.157 (3.99)	1.760 (44.70)	1.710 (43.43)	1.932 (49.07)	1.575 (40.01)	0.157 (3.99)

SPACE-GRADE MIL-DTL-38999 TYPE SuperNine® Blind-Mate / ASF Connectors



253-039 Hermetic Bulkhead Feedthrough, Plug, Fixed-Mount,
Roll-On / Roll-Off Nose · MIL-STD-1560 power and signal insert arrangements

NOTES:

- Material / finish:
 - Shell, jam-nut - 300 series CRES / per Table II
 - Contacts, hermetic - nickel-iron alloy / gold plate
 - Contacts, sockets - copper alloy / gold plate
 - Insulator, hermetic - fused vitreous glass
 - Insulator, socket - high-grade rigid dielectric
 - Seals, O-ring - fluorosilicone blend
- Glenair 253-039 is designed to mate with Glenair 253-015 having same insert arrangement and polarization, and opposite contact gender
- For PP or SS, symmetrical layouts only. Power applied to one contact will result in power to the contact directly opposite, regardless of marking
- Misalignment capabilities are possible with mated pair. Reference Glenair connector 253-015

RECOMMENDED PANEL CUTOUT

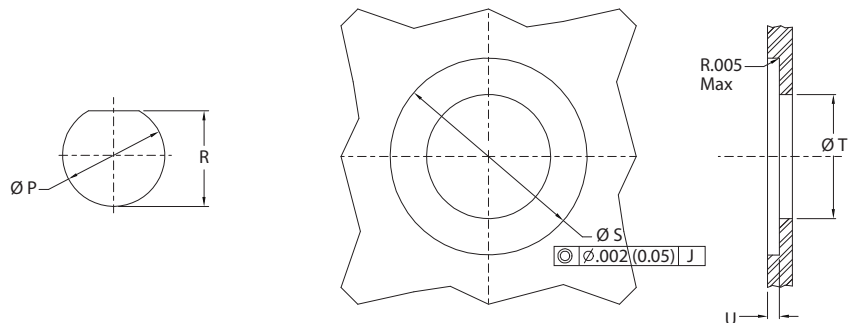


TABLE III - PANEL THICKNESS, JAM NUT

	F Dim, OAL	G Dim, Max	H Dim, Panel
-01	1.775 Max	0.960	.125/.062
-02	1.900 Max	1.085	.250/.062
-03	2.150 Max	1.340	.500/.062

TEST REQ'D

TEST REQ'D	PERFORMANCE
Hermeticity	<1 X 10 ⁻⁷ ccHe/sec
D.W.V.	Per Rating and Table
I.R.	5 Gigaohms @ 500 ±10 VDC

TABLE IV - PANEL THICKNESS, WELD-MOUNT

	M Dim, OAL	N Dim, Max	HH Dim, Panel
-01	1.615 Max	0.935	.175/.150
-02	1.730 Max	1.050	.250/.150
-03	1.980 Max	1.300	.500/.150

DWV TEST VOLTAGE

Service Rating	Voltage AC RMS 60hz
M	1300 VAC
N	1000 VAC
I	1800 VAC
II	2300 VAC

CONTACT ARRANGEMENTS: HIGH-DENSITY, STANDARD, AND COMBO

HIGH-DENSITY			Contact Type	#20 Contact Qty.	Shell Size - Contact Arr.	Contact Type	#16 Contact Qty.	Shell Size - Contact Arr.	COMBO										
Contact Type	#23 Contact Qty.	Shell Size - Contact Arr.							No. Contacts				Shell Size - Contact Arr.						
Size #23 High-Density 5 Amp Max. Current #22-#26 AWG	19	11-23	Size #20 7.5 Amp Max. Current #20-#24 AWG	4	11-4	Size #16 Contacts 13 Amp Max. Current #16-#20 AWG	2	11-2	#20	#16	#12	#10	15-15						
	32	13-23		5	11-5		4	13-4	14	1									
	55	15-23		6	11-98		5	15-5	8	4			15-97						
	73	17-23		7	11-99		8	17-8	21	2			17-99						
	88	19-23		8	13-8		11	19-11	26	2			19-28						
	121	21-23		10	13-98		16	21-16	29	1			19-30						
	151	23-23		18	15-18		21	23-21	19	4	4		21-29						
	187	25-23		19	15-19		16	23-97	37	2			21-39						
				26	17-26		11	23-99	48	8			25-4						
				32	19-32		29	25-29	2			9	25-11						
				24	21-24		37	25-37		12	12		25-24						
				25	21-25									23	20			25-43	
				27	21-27														
				41	21-41														
				32	23-32	Size #12 Contacts 23 Amp Max. Current #12-14 AWG		#12 Contact Qty.		Shell Size - Contact Arr.									
				34	23-34														
				36	23-36														
				53	23-53														
				55	23-55														
				61	25-61														