Code Red Light Weight Hermetic, Rear Panel Mount, Jam-Nut Bulkhead Feedthrough

Series 805 Light Weight Hermetic Bulkhead Feedthrough

Aluminum alloy shells provide a lightweight separable connection on both sides of a mounting panel. Code Red encapsulant allows for conventional gold plated, copper alloy contacts for improved electrical performance over traditional glass-to-metal seal nickel iron contacts. Available in shell sizes 8 to 23. 100% tested to meet 1 X 10^{-7} ccHe/sec @ 1 atm helium leak rate. Mates with all high density triple-start threaded plug connectors with the same polarization and opposite contact genders. Pin and socket configurations include pin to pin, pin to socket, and socket to socket. Please contact the factory for additional finish options.

NOTES

1. This connector mates with all quick coupling high density plug connectors with same polarization and opposite contact gender.
2. Sealing compound employed has been tested and meets all applicable performance requirements of MIL-DTL-38999/23.
3. Connector available with pin to pin, socket to socket, and socket to pin contact styles.
4. For pin to pin application, power applied to a given contact on one end will result in power to contact directly opposite, regardless of contact identification letter
5. Feedthrough meets applicable dimensions, mechanical, electrical, environmental and sealing requirements of MIL-DTL-38999/23
6. Operating temperature range: -65°C to +200°C
7. Leak rate: 1 x 10^-7 cc/s max helium, 1 ATM
8. IR: 5,000 megohms min at room temperature
9. DWV: 750 VAC (size 23 contacts)
10. See page J-11 for recommended panel cut-outs
11. Material and finish

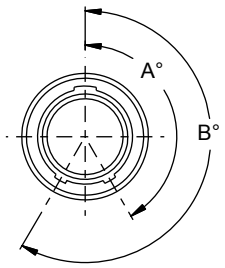
- Shell, jam-nut: aluminum alloy or CRES / see how to order table
- Insulators: liquid crystal polymer / N.A.
- Interfacial seal, O-ring, peripheral seal: fluorosilicone / N.A.
- Contact: copper alloy / gold plate per ASTM B 488, Type II, Code C, Class 1.25, over a suitable underplate

How To Order

Sample Part Number	805-128	-07	ME	8-7	P	P	A
Series	**805-128** = Bulkhead Feedthrough Receptacle						
Shell Style		**-07** = Jam-Nut, Rear Panel Mount					
Shell Material and Finish			**ME** = Aluminum / Nickel Plate				
Shell Size - Insert Arrangement				See Contact Arrangements pages M-8 thru M-32			
Contact Type [2] (Jam-Nut Side)					**P** = Pin **S** = Socket		
Contact Type [2] (Other Side)						**P** = Pin **S** = Socket	
Shell Key Position (See Table I)							**A** = Normal **B** = Pos. B **C** = Pos. C **D** = Pos. D **E** = Pos. E **F** = Pos. F

Table I: Key Positions

Key Position	Key Rotation A	Key Rotation B
A (Normal)	150°	210°
B	75°	210°
C	95°	230°
D	140°	275°
E	75°	275°
F	95°	210°



GLASS SEAL HERMETIC CONNECTORS

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Dimensions in inches (millimeters) are subject to change without notice

Code Red Light Weight Hermetic, Rear Panel Mount, Jam-Nut Bulkhead Feedthrough

JAM-NUT, REAR PANEL MOUNT - SHELL STYLE 07

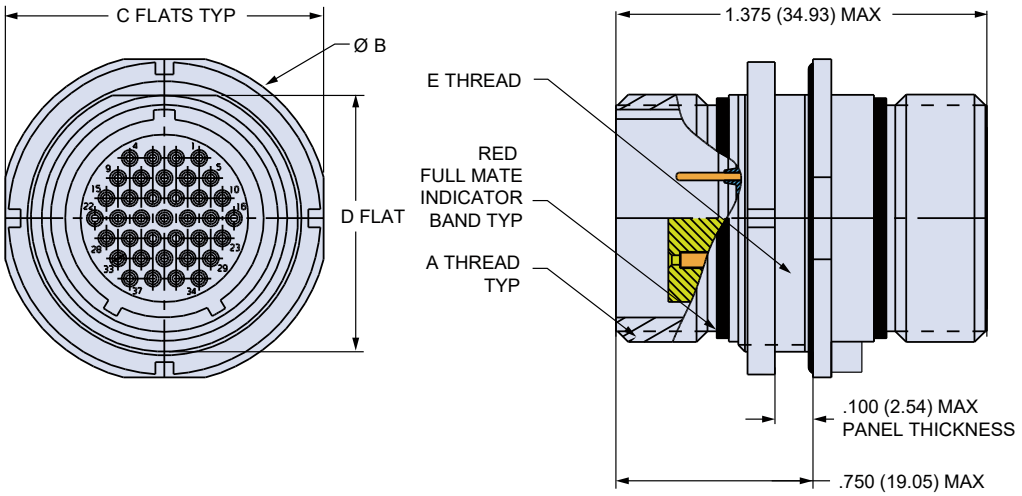
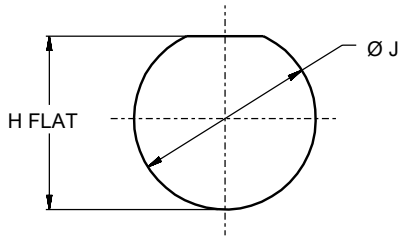


Table II: Dimensions

Shell Size	A Thread	Ø B	C Flat	D Flat	E Thread
8	.5000-.1P-.31L-TS	.760 (19.30)	.730 (18.54)	.535 (13.59)	.5625-28 UNEF-2A
9	.5625-.1P-.31L-TS	.880 (22.35)	.850 (21.59)	.661 (16.79)	.6875-28 UN-2A
10	.6250-.1P-.31L-TS	.880 (22.35)	.850 (21.59)	.661 (16.79)	.6875-28 UN-2A
11	.6875-.1P-.31L-TS	.955 (24.26)	.925 (23.50)	.721 (18.31)	.7500-28 UN-2A
12	.7500-.1P-.31L-TS	1.060 (26.92)	1.035 (26.29)	.784 (19.91)	.8125-28 UN-2A
13	.8125-.1P-.31L-TS	1.120 (28.45)	1.090 (27.69)	.843 (21.41)	.8750-28 UN-2A
15	.9375-.1P-.31L-TS	1.203 (30.56)	1.173 (29.79)	.970 (24.64)	1.0000-28 UN-2A
18	1.1250-.1P-.31L-TS	1.389 (35.28)	1.359 (34.52)	1.147 (29.13)	1.1875-28 UN-2A
19	1.1875-.1P-.31L-TS	1.450 (36.83)	1.420 (36.07)	1.221 (31.01)	1.2500-28 UN-2A
21	1.3125-.1P-.31L-TS	1.590 (40.39)	1.560 (39.62)	1.350 (34.29)	1.3750-28 UN-2A
23	1.4375-.1P-.31L-TS	1.705 (43.31)	1.675 (42.55)	1.470 (37.34)	1.5000-28 UN-2A

Jam-Nut Panel Cutout



Shell Size	H Flat	Ø J
8	.545 (13.84) .541 (13.74)	.572 (14.53) .567 (14.40)
9	.671 (17.04) .667 (16.94)	.698 (17.73) .693 (17.60)
10	.671 (17.04) .667 (16.94)	.698 (17.73) .693 (17.60)
11	.731 (18.57) .727 (18.47)	.760 (19.30) .755 (19.18)
12	.794 (20.17) .790 (20.07)	.822 (20.88) .817 (20.75)
13	.851 (21.62) .847 (21.51)	.885 (22.48) .881 (22.38)
15	.980 (24.89) .976 (24.79)	1.010 (25.65) 1.005 (25.53)
18	1.157 (29.39) 1.153 (29.29)	1.198 (30.43) 1.193 (30.30)
19	1.231 (31.27) 1.227 (31.17)	1.260 (32.00) 1.255 (31.88)
21	1.358 (34.49) 1.354 (34.39)	1.383 (35.13) 1.381 (35.08)
23	1.480 (37.59) 1.476 (37.49)	1.510 (38.35) 1.505 (38.23)

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