

# Jam Nut Thru-Bulkhead (Hermetic)

DS Series • MIL-DTL-38999 Series II Style Connectors



## DS27 Compatibility

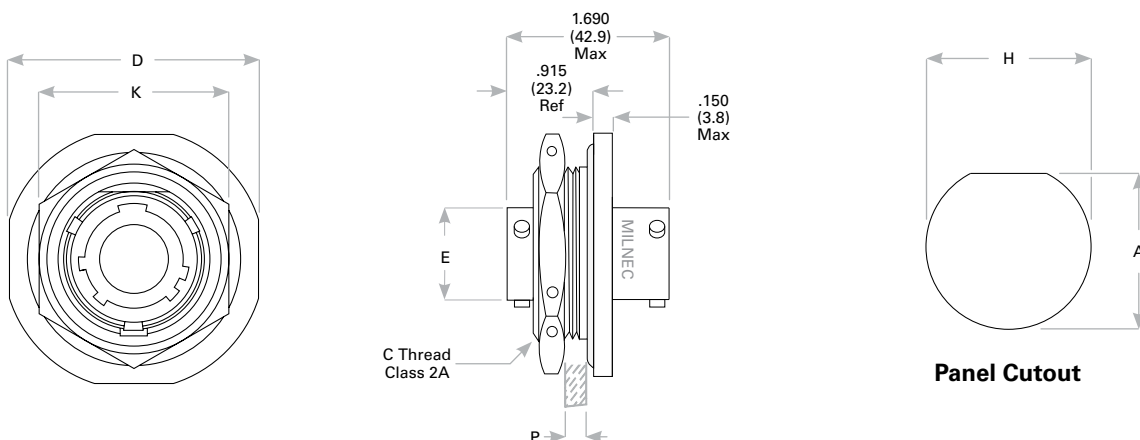
Compatible Brands	Mates
MIL-DTL-38999 Series II	MS27473, MS27484
Aero / Conesys	AE273, AE284
Amphenol	JT06, JTG06
ITT Cannon	KJ6, KJG6
Souriau	8T6

## DS27 HA 14-97 P 1 N - 02

- 1 **BASIC PART NUMBER**  
**DS27** Hermetic jam nut thru-bulkhead receptacle  
 Helium leakage <math> < 1.0 \times 10^{-6}</math> cc<sup>3</sup>/sec at  
 15 psi (1.1 kg/cm<sup>2</sup>). Insert rated to 14,000 psi  
 (984 kg/cm<sup>2</sup>) when precision welded or soldered.
- 2 **MATERIAL & FINISH**  
**HA** Stainless steel, passivated  
**HB** Stainless steel, nickel finish
- 3 **SHELL SIZE & INSERT ARRANGEMENT**  
 See Insert Arrangement Selection table, p. N-16  
 (Verify hermetic availability on table)
- 4 **CONTACT STYLE**  
**P** Pins on jam nut side, sockets opposite  
**S** Sockets on jam nut side, pins opposite
- 5 **PANEL RANGE**  
**1** .063 (1.6) Min — .125 (3.2) Max  
**2** .063 (1.6) Min — .250 (6.4) Max  
**3** .063 (1.6) Min — .500 (12.7) Max
- 6 **ALTERNATE KEYING**  
**N** NORMAL or A, B, C, D
- 7 **OPTIONAL ACCESSORY KIT (OMIT FOR NONE)**  
**02** Protective covers (2x)

## Receptacle Dimensions

Shell Size	K	D	E Max	C Thread Class 2A	H	A	P Panel Range
08	1.062 (27.0)	1.250 (31.8)	.474 (12.0)	.875-20 UNEF	.885 (22.5)	.830 (21.1)	See Option 5 for Panel Range
10	1.188 (30.2)	1.375 (34.9)	.591 (15.0)	1.000-20 UNEF	1.010 (25.7)	.955 (24.3)	
12	1.312 (33.3)	1.500 (38.1)	.751 (19.1)	1.125-18 UNEF	1.135 (28.8)	1.085 (27.6)	
14	1.438 (36.5)	1.625 (41.3)	.876 (22.3)	1.250-18 UNEF	1.260 (32.0)	1.210 (30.7)	
16	1.562 (39.7)	1.781 (45.2)	1.001 (25.4)	1.375-18 UNEF	1.385 (35.2)	1.335 (33.9)	
18	1.688 (42.9)	1.890 (48.0)	1.126 (28.6)	1.500-18 UNEF	1.510 (38.4)	1.460 (37.1)	
20	1.812 (46.0)	2.016 (51.2)	1.251 (31.8)	1.625-18 UNEF	1.635 (41.5)	1.585 (40.3)	
22	2.000 (50.8)	2.140 (54.4)	1.376 (35.0)	1.750-18 UNS	1.760 (44.7)	1.710 (43.4)	
24	2.125 (54.0)	2.265 (57.5)	1.501 (38.1)	1.875-16 UN	1.885 (47.9)	1.835 (46.6)	



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