

SERIES 80 GLASS-TO-METAL SEAL Mighty Mouse Hermetic Connectors PC Tail Receptacle with Coax Contacts



Series 801 Hermetic Receptacles

Feature gold plated nickel-iron alloy contacts and glass to metal seal. 100% tested to meet 1×10^{-7} ccHe/sec @ 1 atm helium leak rate. Stainless steel connector shell provides excellent corrosion protection. Viton® O-rings offer improved resistance to high temperature and harsh chemicals. Square flange, solder, and jam-nut shell styles. Size #16 (up to 700 MHz) and #12 (up to 3 GHz) coax contacts available.

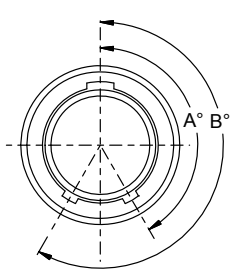
NOTES

- Performance Test Criteria:
- Hermeticity: 1×10^{-7} ccHe/sec @ 1 ATM differential
- D.W.V.:
#16 - 800 VAC inner to outer contact
#12 - 1000 VAC inner to outer contact
1800 VAC outer-pin to outer-pin and outer-pin to shell
- I.R.: 5000 megohms min @500VDC
- 801-124 connector will mate with all quick-coupling plug connectors having the same shell size, contact arrangement, and opposite contact gender (coax socket.)
- Frequency range:
size 16: up to 700 MHz; size 12: up to 3 GHz
- See page E-11 for panel cut-out dimensions
- Material/Finish
 - Shell, jam-nut: stainless steel, passivated or plated see part number development / N.A.
 - Contacts hermetic: nickel alloy/gold plated / N.A.
 - Contacts, socket: copper/gold plated
 - Insulator, hermetic: full glass / N.A.
 - Insulator, coax: rigid dielectric / N.A.
 - Seals, O-rings: fluorosilicone blend / N.A.

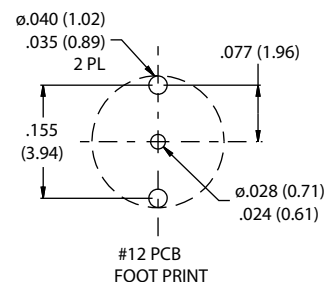
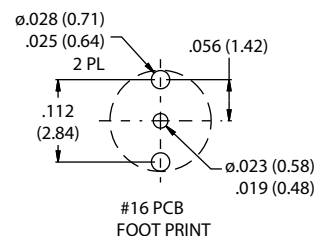
How To Order							
Sample Part Number	801-124	-07	Z1	16-5	C	A	-50
Series	801-124 = Hermetic Receptacle						
Shell Style (See Table I)	-02 = Square Flange, Mount -03 = Solder Mount Receptacle -07 = Jam-Nut Rear Panel Mount						
Shell Material and Finish	Z1 = Stainless Steel / Passivated ZL = Stainless Steel / Nickel Plated						
Shell Size - Insert Arrangement	See Contact Arrangements pages M-29 thru M-30 for size 16 and 12 arrangements only						
Contact Type	C = Coax Pin Face D = Coax Socket Face						
Polarization (See Table II)	A = Normal B = Pos. B C = Pos. C D = Pos. D E = Pos. E F = Pos. F						
Nominal Impedance	50 = 50 OHM (#12 & 16) 75 = 75 OHM (#12 ONLY)						

Table II: Keyway Positions

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

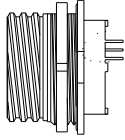
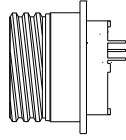
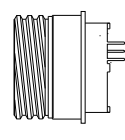


PCB FOOTPRINTS



DWV Rating	
Contact Sizes	Test Voltage
23	750 VAC
20 HD	1000 VAC
16, 12, 8	1800 VAC
16 Coax**	800 VAC
12 Coax**	1000 VAC
**Inner contact to outer contact	

Table I: Shell Style

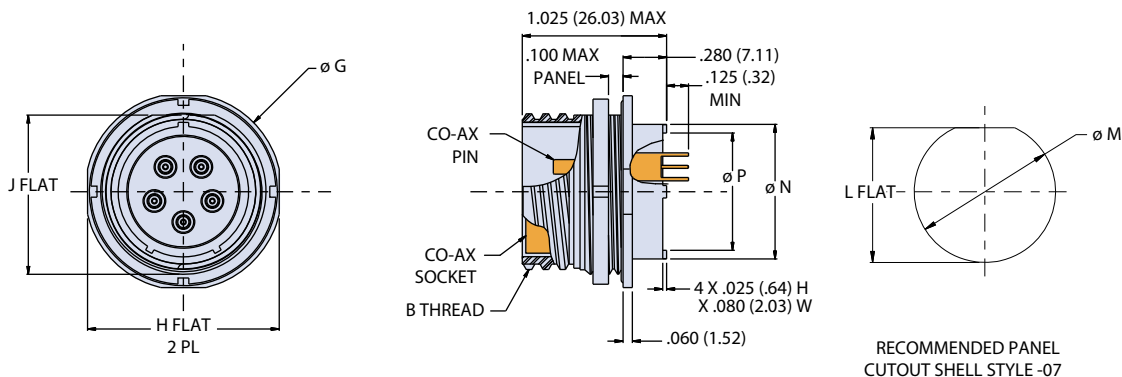
		
-07 Jam-Nut, Rear Panel Mount	-02 Square Flange	-03 Solder Mount



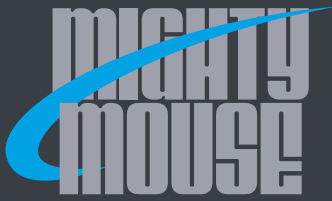
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JAM-NUT, REAR PANEL MOUNT RECEPTACLE - SHELL STYLE 07



Dimensions						
Shell Size	B Thread	Ø G	H Flat	J Flat	Ø N	Ø P
5	.3125-.05P-.1L-2A	.575 (14.60)	.545 (13.84)	.350 (8.89)	.244 (6.20)	.197 (5.00)
6	.3750-.05P-.1L-2A	.635 (16.13)	.595 (15.11)	.410 (10.41)	.330 (8.38)	.236 (5.99)
7	.4375-.05P-.1L-2A	.755 (19.18)	.723 (18.36)	.536 (13.61)	.432 (10.97)	.324 (8.23)
8	.5000-.05P-.1L-2A	.755 (19.18)	.723 (18.36)	.536 (13.61)	.493 (12.52)	.390 (9.91)
9	.5625-.05P-.1L-2A	.830 (21.08)	.790 (20.07)	.596 (15.14)	.551 (14.00)	.444 (11.28)
10	.6250-.05P-.1L-2A	.890 (22.61)	.855 (21.72)	.658 (16.71)	.620 (15.75)	.520 (13.21)
11	.6875-.05P-.1L-2A	.960 (24.38)	.925 (23.50)	.718 (18.24)	.662 (16.81)	.557 (14.15)
13	.8125-.1P-.2L-2A	1.078 (27.38)	1.044 (26.52)	.845 (21.46)	.703 (17.86)	.596 (15.14)
16	1.0000-.1P-.2L-2A	1.265 (32.13)	1.230 (31.24)	1.022 (25.96)	.863 (21.92)	.756 (19.20)
17	1.0625-.1P-.2L-2A	1.325 (33.65)	1.290 (32.77)	1.096 (27.84)	.912 (23.16)	.805 (20.45)
19	1.1875-.1P-.2L-2A	1.450 (36.83)	1.415 (35.94)	1.225 (31.12)	1.018 (25.86)	.910 (23.11)
21	1.3125-.1P-.2L-2A	1.625 (41.28)	1.577 (40.06)	1.346 (34.19)	1.170 (29.72)	1.061 (26.95)

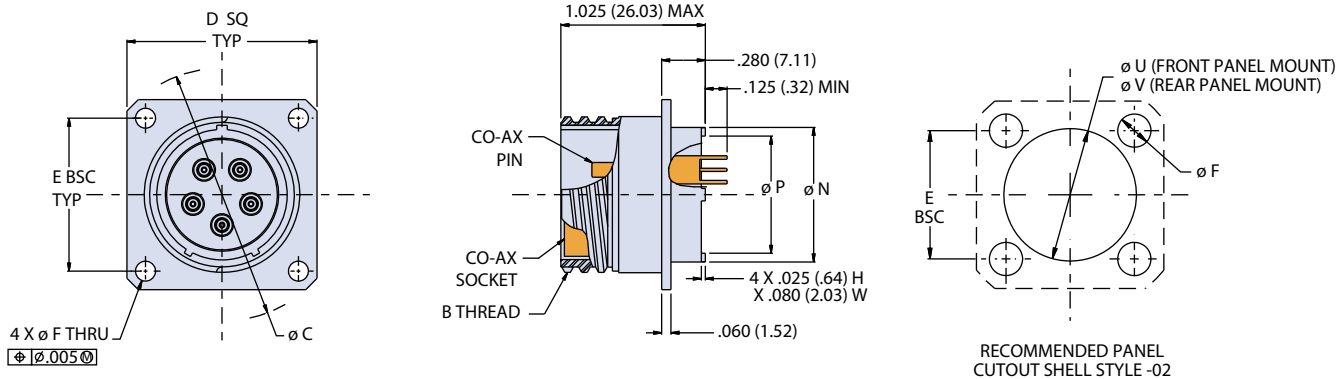


SERIES 801 DOUBLE-START ACME THREAD Mighty Mouse Connectors and Cables



Hermetic PC Tail Receptacle with Coax Contacts

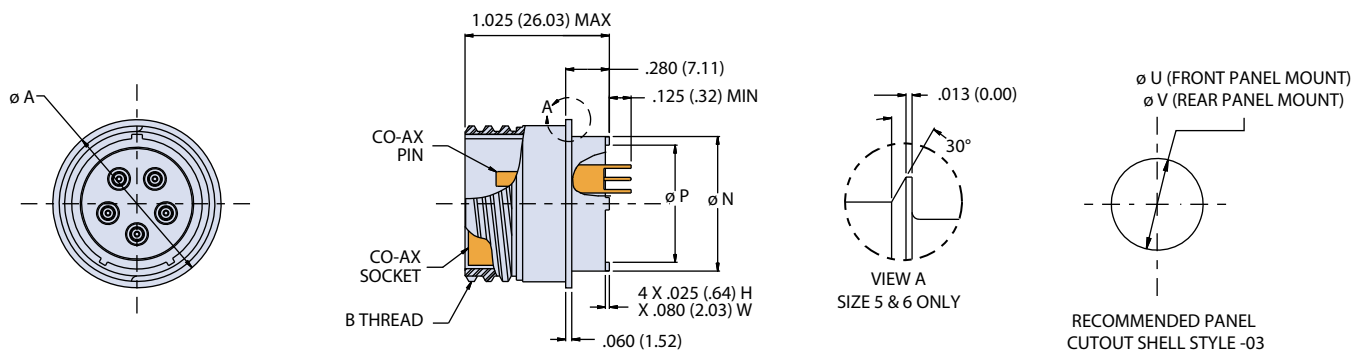
SQUARE FLANGE, FRONT OR REAR PANEL MOUNT, THRU-HOLE RECEPTACLE - SHELL STYLE 02



Dimensions							
Shell Size	B Thread	ϕC	D_{SQ}	E_{BSC}	F Holes	ϕN	ϕP
5	.3125-.05P-.1L-2A	.680 (17.27)	.530 (13.46)	.363 (9.22)	.096 (2.44) .091 (2.31)	.244 (6.20)	.197 (5.00)
6	.3750-.05P-.1L-2A	.750 (19.05)	.590 (14.99)	.423 (10.74)		.330 (8.38)	.236 (5.99)
7	.4375-.05P-.1L-2A	.850 (21.59)	.650 (16.51)	.483 (12.27)		.432 (10.97)	.324 (8.23)
8	.5000-.05P-.1L-2A	.938 (23.83)	.712 (18.08)	.545 (13.84)		.493 (12.52)	.390 (9.91)
9	.5625-.05P-.1L-2A	1.125 (28.58)	.850 (21.59)	.607 (15.42)		.551 (14.00)	.444 (11.28)
10	.6250-.05P-.1L-2A	1.188 (30.18)	.890 (22.61)	.670 (17.02)		.620 (15.75)	.520 (13.21)
11	.6875-.05P-.1L-2A	1.250 (31.75)	.935 (23.75)	.715 (18.16)	.130 (3.30) .126 (3.20)	.662 (16.81)	.557 (14.15)
13	.8125-.1P-.2L-2A	1.375 (34.92)	1.030 (26.16)	.812 (20.62)		.703 (17.86)	.596 (15.14)
16	1.0000-.1P-.2L-2A	1.625 (41.28)	1.219 (30.96)	.981 (24.92)		.863 (21.92)	.756 (19.20)
17	1.0625-.1P-.2L-2A	1.700 (43.18)	1.280 (32.51)	1.060 (26.92)		.912 (23.16)	.805 (20.45)
19	1.1875-.1P-.2L-2A	1.900 (48.26)	1.432 (36.37)	1.191 (30.25)		1.018 (25.86)	.910 (23.11)
21	1.3125-.1P-.2L-2A	2.100 (53.34)	1.565 (39.75)	1.322 (33.58)		1.170 (29.72)	1.061 (26.95)

Hermetic PC Tail Receptacle with Coax Contacts

SOLDER MOUNT MOUNT RECEPTACLE - SHELL STYLE 03



Dimensions				
Shell Size	Ø A	B Thread	Ø N	Ø P
5	.395 (10.03)	.3125 -.05P-.1L-2A	.244 (6.20)	.197 (5.00)
6	.455 (11.56)	.3750-.05P-.1L-2A	.330 (8.38)	.236 (5.99)
7	.520 (13.21)	.4375-.05P-.1L-2A	.432 (10.97)	.324 (8.23)
8	.580 (14.73)	.5000-.05P-.1L-2A	.493 (12.52)	.390 (9.91)
9	.645 (16.38)	.5625-.05P-.1L-2A	.551 (14.00)	.444 (11.28)
10	.705 (17.91)	.6250-.05P-.1L-2A	.620 (15.75)	.520 (13.21)
11	.770 (19.56)	.6875-.05P-.1L-2A	.662 (16.81)	.557 (14.15)
13	.895 (22.73)	.8125-.1P-.2L-2A	.703 (17.86)	.596 (15.14)
16	1.080 (27.43)	1.0000-.1P-.2L-2A	.863 (21.92)	.756 (19.20)
17	1.145 (29.08)	1.0625-.1P-.2L-2A	.912 (23.16)	.805 (20.45)
19	1.270 (32.26)	1.1875-.1P-.2L-2A	1.018 (25.86)	.910 (23.11)
21	1.415 (35.94)	1.3125-.1P-.2L-2A	1.170 (29.72)	1.061 (26.95)