



Series 802 Aqua Mouse Submersible
Solder Cup or PCB Receptacle Ordering Information
802-012 and 802-030



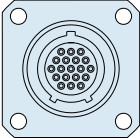
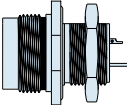
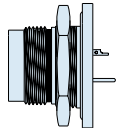
Square Flange Receptacle
with PCB Contacts

Printed Circuit Board/ Solder Cup Receptacles feature low profile shells for minimum protrusion inside enclosures and integral standoffs for board washout. Contacts are non-removable.

Water Immersion, Unmated

Specify **802-012** connectors for applications where open face water immersion is not a requirement. For MIL-STD-810 Method 512G immersion requirements, specify **802-030** watertight connectors. These 802-030 connectors are specially sealed ("MOD-518") and are 100% tested to maintain a helium leak rate of 1×10^{-4} cc/second at one atmosphere pressure differential from -40C to +70C.

HOW TO ORDER SERIES 802 PCB / SOLDER CUP RECEPTACLES

Sample Part Number					
802-012	-00	Z1	9-200	P	A
Series	Shell Style	Shell Material / Finish	Shell Size- Insert Arrangement	Contact Type	Shell Key Position
802-012 Receptacle for Solder Cup or PCB Termination, with Standard Epoxy Potting	 -02 Square Flange	Z1 Stainless Steel / Passivated ZM Stainless Steel / Electroless Nickel Plated AB Marine Bronze / Unplated	SEE CONTACT ARRANGEMENTS PAGE E-2	P Pin, PC Tail S Socket, PC Tail E Pin, Solder Cup F Socket, Solder Cup	A Normal B Pos. B C Pos. C D Pos. D
802-030 Receptacle for Solder Cup or PCB Termination, With Special "MOD-518" Sealing For Open Face (unmated) Water Immersion Requirements. 100% Leak Tested.	 -00 Jam Nut for Front Panel Mounting  -07 Jam Nut for Rear Panel Mounting				

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

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E-10

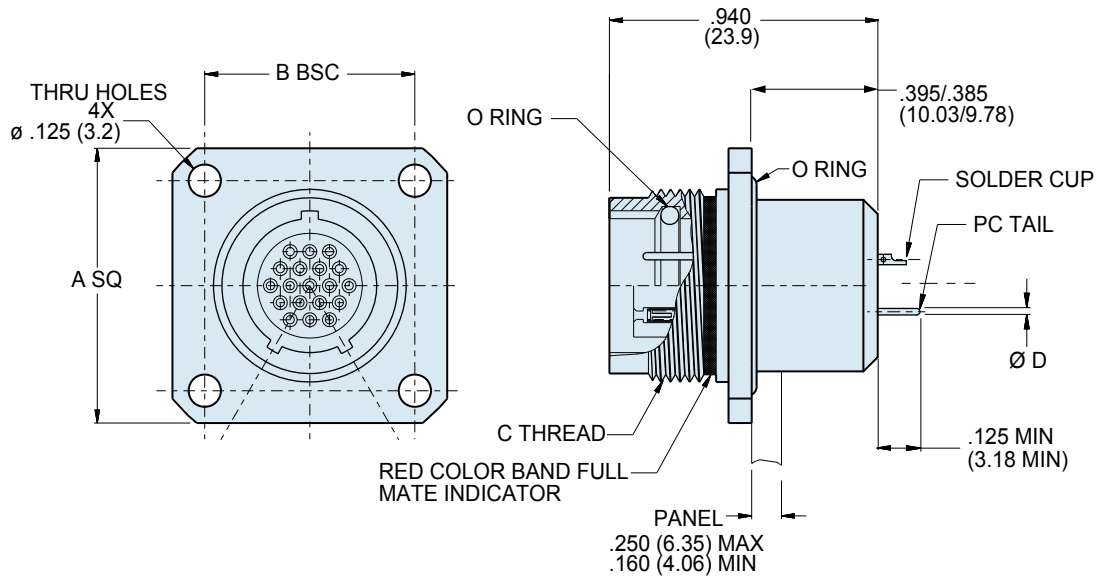
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Rev. 01-JAN-2010

Series 802 Aqua Mouse Submersible Square Flange Receptacle Connector Dimensions 802-012-02, 802-030-02



Series 802

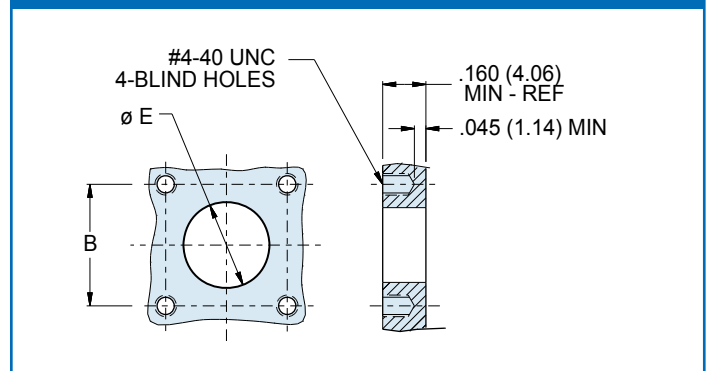


DIMENSIONS								
Shell Size	A Square		B Bsc.		C Mating Threads	Ø D Tail Dia.	Ø E	
	In.	mm.	In.	mm.			In.	mm.
5	.885	22.48	.500	12.70	.438-28 UNEF	#23	.327	8.31
6	1.010	25.65	.625	15.88	.562-20 UN	.018/.022 (0.46/0.56)	.390	9.91
7	1.072	27.23	.688	17.48	.625-20 UN	#20	.515	13.08
8	1.135	28.83	.750	19.05	.687-20 UN	.024/.028 (0.61/0.71)	.577	14.66
9	1.195	30.35	.812	20.62	.750-20 UNEF	#16	.640	16.26
10	1.260	32.00	.875	22.23	.812-20 UNEF	.060/.064 (1.52/1.63)	.702	17.83
12	1.322	33.58	.938	23.83	.875-20 UNEF	#12	.765	19.43
14	1.510	38.25	1.125	28.58	1.062-20 UN	.092/.096 (2.34/2.44)	.953	24.21
15	1.572	39.93	1.188	30.18	1.125-20 UN		1.015	25.78
21	1.750	44.45	1.375	34.93	1.4375-20 UN		1.312	33.32

SERIES 802 RECEPTACLE KEY POSITIONS

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

SERIES 802 SQ FLANGE PANEL CUTOUT



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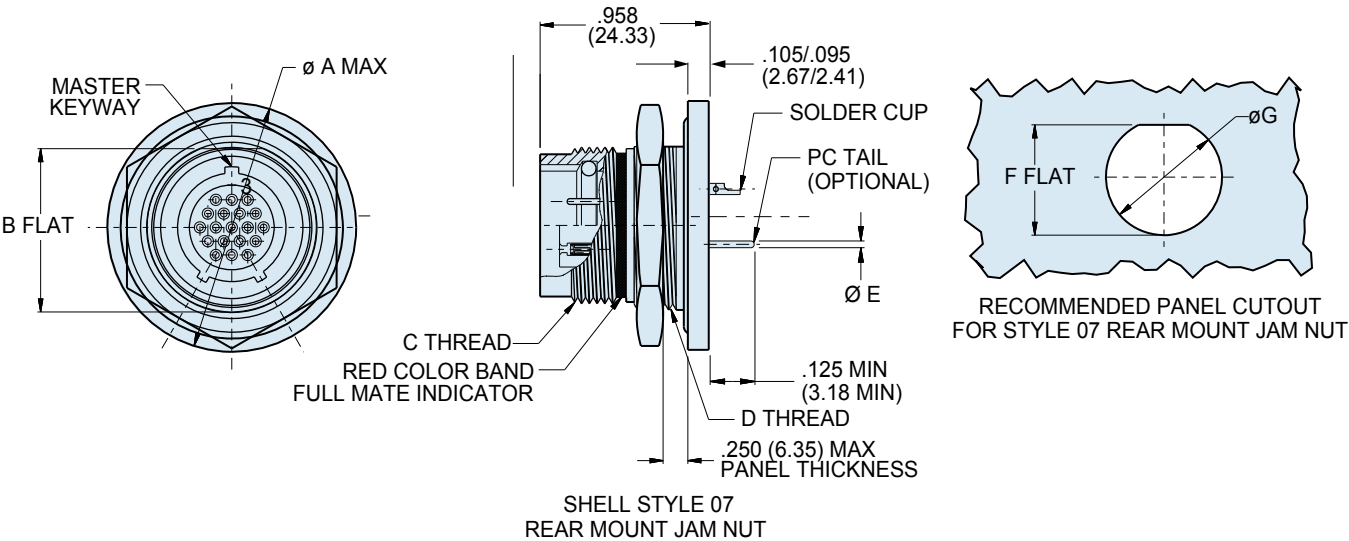
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Series 802 Aqua Mouse Submersible Rear Mount Jam Nut Receptacle Connector Dimensions

802-012-07, 802-012-030



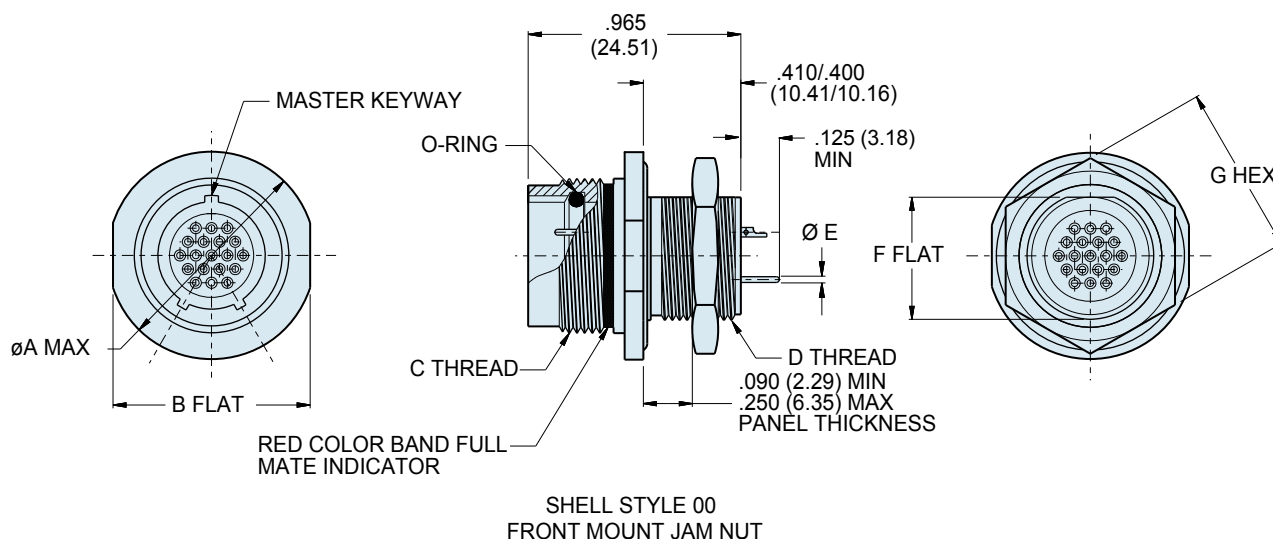
DIMENSIONS												
Shell Size	A Max.		B Flat		C Mating Threads	D Threads	Ø E Tail Dia.	F Flat		Ø G		
			In.	mm.				In.	mm.	In.	mm.	
	In.	mm.	± .003	±0.08				± .002	±0.05	± .005	±0.13	
5	.885	22.48	.466	11.84	.438-28 UNEF	.500-32 UN-2A	#23 (0.46/0.56)	.473	12.01	.510	12.95	
6	1.010	25.65	.591	15.01	.562-20 UN	.625-28 UN-2A		.018/.022	.603	15.32	.635	16.13
7	1.072	27.23	.653	16.59	.625-20 UN	.687-28 UN-2A		.024/.028	.662	16.81	.698	17.73
8	1.135	28.83	.716	18.19	.687-20 UN	.750-28 UN-2A	(0.61/0.71)	.714	18.14	.760	19.30	
9	1.195	30.35	.778	19.76	.750-20 UNEF	.812-28 UN-2A		.024/.028	.785	19.94	.822	20.88
10	1.260	32.00	.827	21.01	.812-20 UNEF	.875-28 UN-2A		.060/.064	.835	21.21	.885	22.48
12	1.322	33.58	.890	22.61	.875-20 UNEF	.938-28 UN-2A	(1.52/1.63)	.899	22.83	.948	24.08	
14	1.510	38.25	1.077	27.36	1.062-20 UN	1.125-28 UN-2A		.092/.096	1.085	27.56	1.135	28.83
15	1.572	39.93	1.140	28.96	1.125-20 UN	1.188-28 UN-2A		.092/.096	1.155	29.34	1.198	30.43
21	1.940	49.28	1.464	37.19	1.4375-20 UN	1.500-28 UN-2A	(2.34/2.44)	1.473	37.41	1.510	39.12	

SERIES 802 RECEPTACLE KEY POSITIONS			
Key Position	Key Rotation		
	A°	B°	
Normal (A)	150°	210°	
B	75°	210°	
C	95°	230°	
D	140°	275°	

Series 802 "Aqua Mouse" Submersible Front Mount Jam Nut Receptacle Connector Dimensions 802-012-00 and 802-030-00



Series 802



DIMENSIONS

Shell Size	A Max.		B Flat		C Mating Threads	D Threads	Ø E Tail Dia.	F Flat		G Hex	
	In.	mm.	In.	mm.				In.	mm.	In.	mm.
5	.720	18.29	.625	15.88	.438-28 UNEF-2A	.312-28 UN-2A	#23	.281	7.14	.500	12.70
6	.780	19.81	.750	19.05	.562-20 UN-2A	.438-28 UN-2A	.018/.022 (0.46/0.56)	.344	8.74	.625	15.88
7	.910	23.11	.812	20.62	.625-20 UN-2A	.500-32 UN-2A	#20	.469	11.91	.688	17.48
8	.960	24.38	.875	22.23	.687-20 UN-2A	.562-28 UN-2A	.024/.028 (0.61/0.71)	.531	13.49	.750	19.05
9	1.030	26.16	.937	23.80	.750-20 UNEF-2A	.625-28 UN-2A	#16	.594	15.09	.812	20.62
10	1.090	27.69	1.000	25.40	.812-20 UNEF-2A	.687-28 UN-2A	.060/.064 (1.52/1.63)	.656	16.66	.875	22.23
12	1.160	29.46	1.062	26.97	.875-20 UNEF-2A	.750-28 UN-2A	#12	.719	18.26	.938	23.83
14	1.340	34.04	1.250	31.75	1.062-20 UN-2A	.938-28 UN-2A	.092/.096 (2.34/2.44)	.893	22.68	1.125	28.58
15	1.410	35.18	1.312	33.32	1.125-20 UN-2A	1.000-28 UN-2A		.955	24.26	1.188	30.18
21	1.700	43.18	1.562	39.67	1.4375-20 UN-2A	1.312-28 UN		1.257	31.93	1.500	38.10

RECEPTACLE KEY POSITIONS

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

CUTOUT DIMENSIONS

Shell Size	W Flat		Ø T	
	In.	mm.	In.	mm.
5	.291/.286	7.4/7.3	.322	8.2
6	.417/.412	10.6/10.5	.448	11.4
7	.479/.474	12.2/12.0	.510	13.0
8	.541/.536	13.7/13.6	.572	14.5
9	.604/.599	15.3/15.2	.635	16.1
10	.666/.661	16.9/16.8	.697	17.7
12	.729/.724	18.5/18.4	.760	19.3
14	.903/.898	22.9/22.8	.948	24.1
15	.965/.960	24.5/24.4	1.010	25.7
21	1.267/1.263	32.2/32.1	1.322	33.6

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