

Amphenol's 2M Micro38999 Connector Series... The New Aerospace Standard

Averaging less than half the size and weight of their 38999 ancestors, Amphenol's 2M Micro38999 series are an easy and inexpensive way to take weight out of your system. 2M meet or exceed most environmental and performance requirements listed in MIL-DTL-38999, so modernizing your equipment doesn't mean sacrificing ruggedness. With almost 2,000,000 configurations in every termination style and a full complement of accessories available right out of the catalog, customization has never been easier. Smarter, faster and smaller: Amphenol's 2M... the only connector you'll ever need.



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Why 2M Hermetic?

2M Series of Hermetic Receptacles provide superior sealing of 1×10^{-7} cc/second helium leak rate and are 100% tested prior to shipping. This superior sealing is accomplished through the use of glass insulator fused to stainless steel shells and nickel iron alloy contacts.



2M805 Tri-Start Hermetic Receptacle

Ordering Guide for 2M805-006

2M805 Series of Hermetic Receptacles provide superior sealing of 1x10⁻⁸ cc/second helium leak rate and are 100% tested prior to shipping. This superior sealing is accomplished through the use of glass insulator fused to stainless steel shells and iron alloy contacts.

2M805 FEATURES INCLUDE:

- Low profile shells for minimum box protrusion
- Shell Standoffs for PC Board washout
- Non-removable PC and/or Solder cup contacts
- Hermetic Sealing



1.	2.	3.	4.	5.	6.
SERIES	SHELL SIZE	SERVICE CLASS	SHELL SIZE-INSERT AGGMT	CONTACTS	KEYING
2M805-006	-07	Z1	12-26	C	A

Example Part Number

1. SERIES	
Part #	Description
2M805-006	Hermetic Receptacle

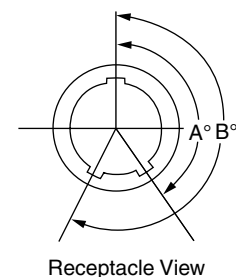
2. SHELL SIZE	
Part #	Description
-02	Square Flange
-03	Weld Mount (only available in Z1 Finish)
-07	Jam Nut for Rear Panel Mounting Receptacle

3. SERVICE CLASS			
Material	Part #	Description	RoHS
STAINLESS STEEL	Z1	Passivated	
	ZL	Nickel Plated	

4. SHELL SIZE-INSERT ARRANGEMENT
See Table on pages 7-20

5. CONTACTS	
Part #	Description
P	Pin- Solder Cup
C	Pin-PC Tail
H	Pin, Solder Cup- Without Interfacial Seal
Y	Pin, PC Tail- Without Interfacial Seal

6. KEYING		
Part #	A°	B°
A	150°	210°
B	75°	210°
C	95°	230°
D	140°	275°



Note: Please contact the factory directly for a listing of tooled interfacial seals for the hermetically sealed connectors.

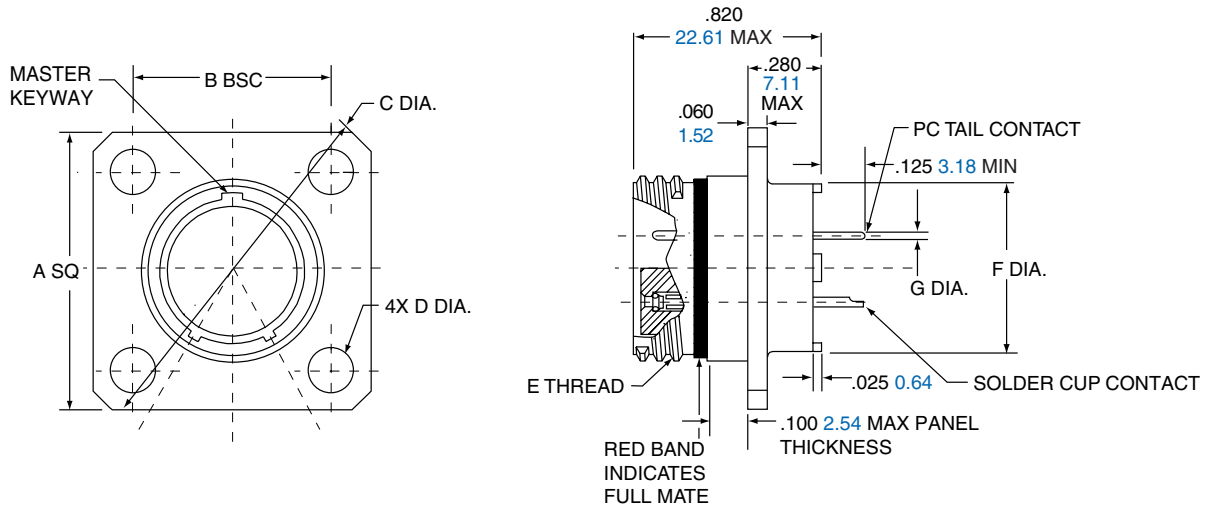
Please note, Amphenol standard 2M hermetic connector are provided less the interfacial seal. Please contact the factory for availability on the interfacial seal.

2M805 Tri-Start Flange Mount Hermetic

2M805-006-02



2M805-006-02



Shell Size	A Sq.		B BSC.		C Dia.		D Dia.		E Threads	F Dia.		G PC Tail Dia.
	in.	mm.	in.	mm.	in.	mm.	in. ±.003	mm. ±.08		in.	mm.	
8	.853	21.67	.660	16.76	1.153	29.29	.091	2.31	.5000-.1P-.3L-TS-2A	.330	8.38	#23 .018/.022 0.46/0.56
9	.916	23.27	.723	18.36	1.233	31.32	.091	2.31	.5625-.1P-.3L-TS-2A	.432	10.97	#20/20HD .024/.028 0.64/0.69
10	.978	24.84	.785	19.94	1.333	33.86	.091	2.31	.6250-.1P-.3L-TS-2A	.493	12.52	#16 .060/.064 1.521/1.63
11	1.042	26.47	.848	21.54	1.413	35.89	.091	2.31	.6875-.1P-.3L-TS-2A	.551	14.00	#12 .092/.096 2.34/2.44
12	1.102	27.99	.909	23.09	1.503	38.18	.091	2.31	.7500-.1P-.3L-TS-2A	.622	15.80	
15	1.291	32.79	1.058	26.87	1.753	44.53	.125	3.18	.9375-.1P-.3L-TS-2A	.703	17.86	
18	1.478	37.54	1.255	31.88	2.003	50.88	.125	3.18	1.1250-.1P-.3L-TS-2A	.863	21.92	
19	1.540	39.12	1.327	33.71	2.097	53.26	.125	3.18	1.1875-.1P-.3L-TS-2A	.912	23.16	
23	1.790	45.47	1.570	39.88	2.443	62.05	.125	3.18	1.4375-.1P-.3L-TS-2A	1.163	29.54	

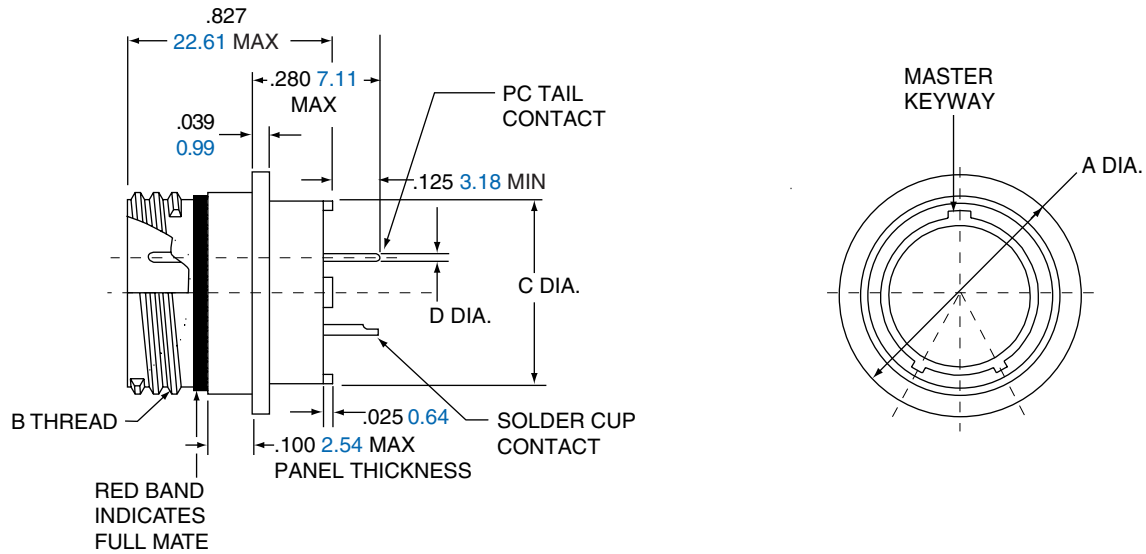
Hermetic

G

2M805 Tri-Start Solder Mount Hermetic

2M805-006-03

2M805-006-03



Shell Size	A Dia.		B Threads	C Dia.		D PC Tail Dia.
	in.	mm.		in.	mm.	
8	.625	15.88	.5000-.1P-.3L-TS-2A	.330	8.38	#23 .018/.022 0.46/0.56
9	.688	17.48	.5625-.1P-.3L-TS-2A	.432	10.97	
10	.750	19.75	.6250-.1P-.3L-TS-2A	.493	12.52	#20/20HD .025/.027 0.64/0.69
11	.812	20.62	.6875-.1P-.3L-TS-2A	.551	14.00	
12	.875	22.23	.7500-.1P-.3L-TS-2A	.620	15.78	
15	1.062	26.97	.9375-.1P-.3L-TS-2A	.703	17.86	#16 .060/.064 1.521/1.63
18	1.250	31.75	1.1250-.1P-.3L-TS-2A	.863	21.92	
19	1.312	33.32	1.1875-.1P-.3L-TS-2A	.912	23.16	#12 .092/.096 2.34/2.44
23	1.563	39.70	1.4375-.1P-.3L-TS-2A	1.162	29.51	

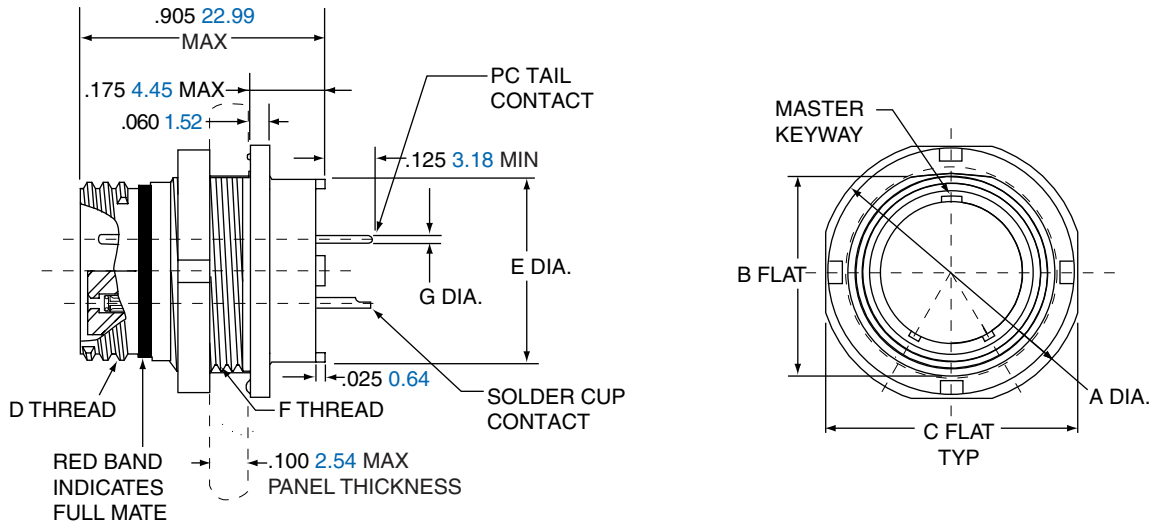
Hermetic

2M805 Tri-Start Jam Nut Hermetic

2M805-006-07



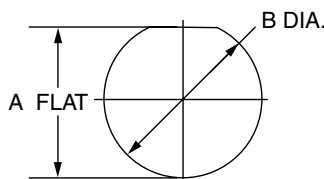
2M805-006-07



Shell Size	A Dia.		B Flat		C Flat		D Threads	E Dia.		F Threads	G PC Tail Dia.
	in.	mm.	in.	mm.	in.	mm.		in.	mm.		
8	.760	19.30	.535	13.59	.730	18.54	.5000-.1P-.3L-TS-2A	.330	8.38	.5625-28 UN-2A	#23 .018/.022 0.46/0.56
9	.880	22.35	.661	16.79	.850	21.59	.5625-.1P-.3L-TS-2A	.432	10.97	.6875-28 UN-2A	
10	.880	22.35	.661	16.79	.850	21.59	.6250-.1P-.3L-TS-2A	.493	12.52	.6875-28 UN-2A	
11	.955	24.26	.721	18.31	.925	23.50	.6875-.1P-.3L-TS-2A	.551	14.00	.7500-28 UN-2A	#20/20HD .024/.028 0.64/0.69
12	1.060	26.92	.784	19.91	1.035	26.29	.7500-.1P-.3L-TS-2A	.620	15.78	.8125-28 UN-2A	
15	1.203	30.56	.970	24.64	1.173	29.79	.9375-.1P-.3L-TS-2A	.703	17.86	1.0000-28 UN-2A	#16 .060/.064 1 .521/1.63
18	1.389	35.28	1.147	29.13	1.359	34.52	1.1250-.1P-.3L-TS-2A	.863	21.92	1.1875-28 UN-2A	
19	1.450	36.83	1.221	31.01	1.420	36.07	1.1875-.1P-.3L-TS-2A	.912	23.16	1.2500-28 UN-2A	
23	1.705	43.31	1.470	37.34	1.675	42.55	1.4375-.1P-.3L-TS-2A	1.162	29.51	1.5000-28 UN-2A	#12 .092/.096 2.34/2.44

PANEL CUTOUT FOR JAM NUT

Shell Size	A Flat		B Dia.	
	in. ±.002	mm. ± 0.05	in. ±.005	mm. ± 0.13
8	.543	13.79	.572	14.53
9	.669	16.99	.698	17.73
10	.669	16.99	.698	17.73
11	.729	18.51	.760	19.30
12	.792	20.17	.822	20.88
15	.978	24.84	1.010	25.65
18	1.155	29.34	1.198	30.43
19	1.231	31.27	1.260	32.00
23	1.480	37.59	1.510	38.35



2M804 Push-Pull Hermetic Receptacle

Ordering Guide for 2M804-006

2M804 Series of Hermetic Receptacles provide superior sealing of 1×10^{-8} cc/second helium leak rate and are 100% tested prior to shipping. This superior sealing is accomplished through the use of glass insulator fused to stainless steel shells and iron alloy contacts.

2M804 FEATURES INCLUDE:

- Low profile shells for minimum box protrusion
- Shell Standoffs for PC Board washout
- Non-removable PC and/or Solder cup contacts
- Hermetic Sealing

1.	2.	3.	4.	5.	6.
SERIES	SHELL SIZE	SERVICE CLASS	SHELL SIZE-INSERT AGGMT	CONTACTS	KEYING
2M804-006	-07	Z1	9-19	P	A

Example Part Number

1. SERIES	
Part #	Description
2M804-006	Hermetic Receptacle with Printed Circuit Board Contacts or Solder Cup Contacts.

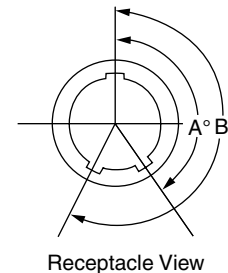
2. SHELL SIZE	
Part #	Description
-00	Jam Nut for Front Panel Mounting
-07	Jam Nut for Rear Panel Mounting Receptacle

3. SERVICE CLASS			
Material	Part #	Description	RoHS
STAINLESS STEEL	Z1	Passivated	
	ZL	Nickel Plated	

4. SHELL SIZE-INSERT ARRANGEMENT
See Table pg 7-20

5. CONTACTS	
Part #	Description
P	Pin- Solder Cup
C	Pin-PC Tail
H	Pin, Solder Cup- Without Interfacial Seal
Y	Pin, PC Tail- Without Interfacial Seal

6. KEYING		
Part #	A°	B°
A	150°	210°
B	75°	210°
C	95°	230°
D	140°	275°



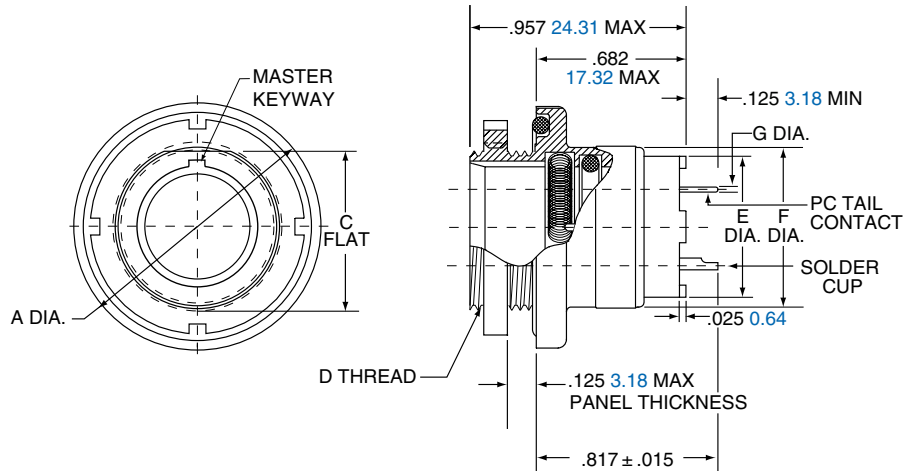
Note: Please contact the factory directly for a listing of tooled interfacial seals for the hermetically sealed connectors. Please note, Amphenol standard 2M hermetic connector are provided less the interfacial seal. Please contact the factory for availability on the interfacial seal.

2M804 Push-Pull Rear Panel Jam Nut Hermetic

2M804-006-07



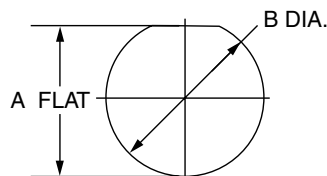
2M804-006-07



Shell Size	A Dia.		C Flat		D Thread UN-2A	E Dia.		F Dia.		G PC Tail Dia.
	in.	mm.	in.	mm.		in.	mm.	in.	mm.	
5	.773	19.63	.414	10.52	.4375-32	.274	6.96	.448	11.38	#23 .018/.022 0.46/0.56
6	.833	21.16	.468	11.89	.5000-32	.329	8.36	.513	13.03	
7	.903	22.94	.593	15.06	.6250-28	.431	10.95	.573	14.55	#20/20HD .025/.027 0.64/0.69
8	.958	24.33	.593	15.06	.6250-28	.493	12.52	.596	15.14	
9	.998	25.35	.653	16.59	.6875-28	.551	14.00	.691	17.55	#16 .060/.064 1.52/1.63
10	1.083	27.51	.721	18.31	.7500-28	.619	15.72	.728	18.49	
12	1.183	30.05	.843	21.41	.8750-28	.703	17.86	.883	22.43	#12 .092/.096 2.34/2.44
14	1.323	33.60	.968	24.59	1.0000-28	.863	21.92	1.003	25.48	
15	1.373	34.87	1.036	26.31	1.0625-20	.913	23.19	1.063	27.00	

JAM NUT PANEL CUTOUT

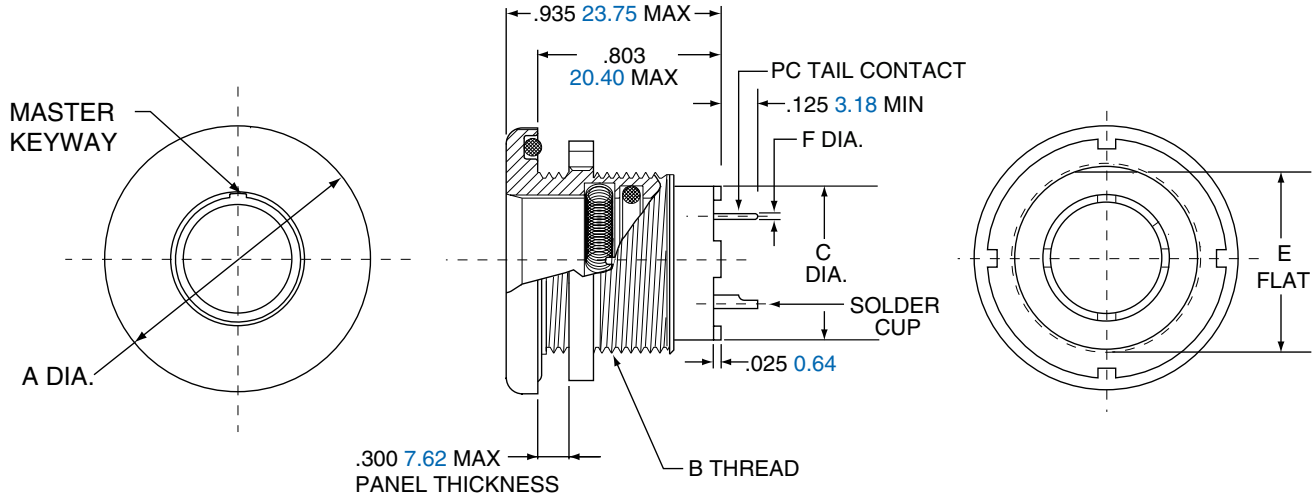
Shell Size	A Flat		B Dia.	
	in. ±.002	mm. ± 0.05	in. ±.005	mm. ± 0.13
5	.423	10.74	.448	11.38
6	.475	12.07	.510	12.95
7	.602	15.29	.635	16.13
8	.602	15.29	.635	16.13
9	.663	16.84	.698	17.73
10	.729	18.82	.760	19.30
12	.851	21.62	.885	22.48
14	.976	24.79	1.010	25.65



2M804 Front Panel Jam Nut Hermetic

2M804-006-00

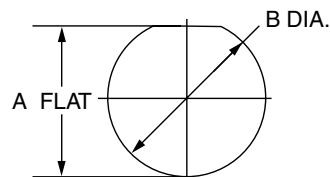
2M804-006-00



Shell Size	A Dia.		B Thread UN-2A	C Dia.		E Flat.		F PC Tail Dia.
	in.	mm.		in.	mm.	in.	mm.	
5	.830	21.08	.5000-32	.274	6.96	.470	11.94	#23 .018/.022 0.46/0.56
6	.884	22.45	.5625-32	.329	8.36	.529	13.44	
7	.994	25.25	.6875-28	.431	10.95	.663	16.84	#20/20HD .025/.027 0.64/0.69
8	.994	25.25	.6875-28	.493	12.52	.663	16.84	
9	1.073	27.25	.7500-28	.551	14.00	.719	18.26	#16 .060/.064 1.52/1.63
10	1.138	28.91	.8125-28	.619	15.72	.778	19.76	
12	1.338	33.99	1.0000-28	.703	17.86	.969	24.61	
14	1.388	35.26	1.0625-20	.863	21.92	1.019	25.88	#12 .092/.096 2.34/2.44
15	1.453	36.91	1.1250-28	.913	23.19	1.113	28.27	

JAM NUT PANEL CUTOUT

Shell Size	A Flat		B Dia.	
	in. ±.002	mm. ± 0.05	in. ±.005	mm. ± 0.13
5	.477	12.12	.510	12.95
6	.537	13.64	.635	16.13
7	.670	17.02	.635	16.13
8	.670	17.02	.698	17.73
9	.727	18.47	.760	19.30
10	.787	19.81	.885	22.48
12	.977	24.82	1.010	25.65
14	1.027	26.09	1.073	27.25
15	1.120	28.45	1.135	28.83



2M803 Hermetic

Ordering Guide for 2M803-006 Receptacles



2M803 Series of Hermetic Receptacles provide superior sealing of 1x10⁻⁸ cc/second helium leak rate and are 100% tested prior to shipping. This superior sealing is accomplished through the use of glass insulator fused to stainless steel shells and iron alloy contacts.

2M803 FEATURES INCLUDE:

- Low profile shells for minimum box protrusion
- Shell Standoffs for PC Board washout
- Non-removable PC and/or Solder cup contacts
- Hermetic Sealing

1. SERIES	2. SHELL SIZE	3. SERVICE CLASS	4. SHELL SIZE-INSERT AGGMT	5. CONTACTS	6. KEYING
2M803-006	-07	Z1	6-7	P	A

Example Part Number

1. Series	
Part #	Description
2M803-006	Hermetic Receptacles with PCB Contacts or Solder Cup Contacts

2. Shell Size	
Part #	Description
-02	Flange Mount
-07	Jam Nut

3. Service Class			
Material	Part #	Description	
STAINLESS STEEL	Z1	Passivated	
	ZL	Nickel Plated	

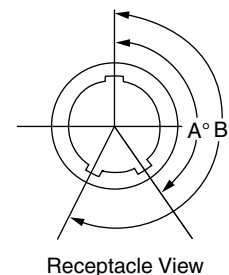
4. Shell Size-Insert Arrangement
See Table pg 7-20

5. Contacts	
Part #	Description
P	Pin- Solder Cup
C	Pin-PC Tail
H	Pin, Solder Cup- Without Interfacial Seal
Y	Pin, PC Tail- Without Interfacial Seal

6. Keying		
Part #	A°	B°
N (NORMAL)	150°	210°
X	75°	210°
Y	95°	230°
Z	140°	275°

Note: Please contact the factory directly for a listing of tooled interfacial seals for the hermetically sealed connectors.

Please note, Amphenol standard 2M hermetic connector are provided less the interfacial seal. Please contact the factory for availability on the interfacial seal.



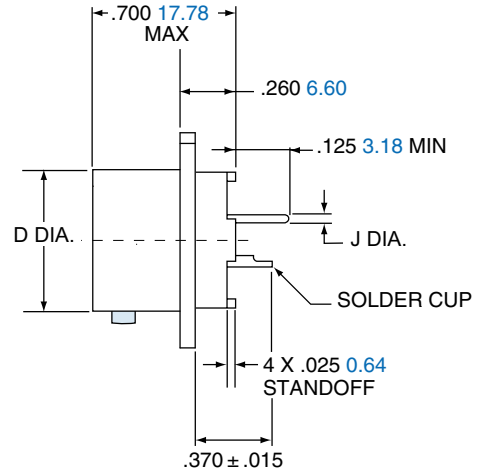
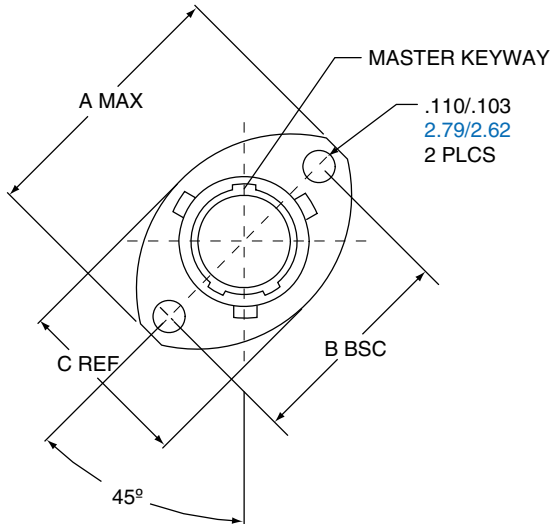
Hermetic

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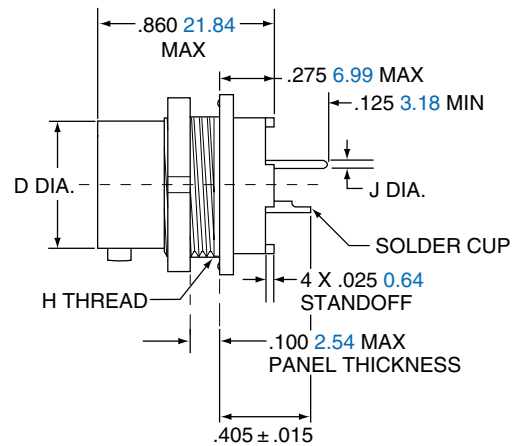
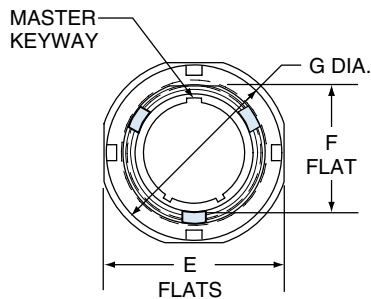
2M803 Hermetic

Flange Mount and Jam Nut 2M803-006-02 and -07

2M803-006-02



2M803-006-07



Shell Size	A Max.		B BSC.		C Ref.		D Dia.		E Flats		F Flat		G Dia.		H Thread	J PC Tail Dia.
	in.	mm	in.	mm.	in.	mm	in.	mm.	in.	mm.	in.	mm.	in.	mm.		
5	.710	18.03	.513	13.03	.460	11.68	.300	7.62	.545	13.84	.350	8.89	.575	14.61	.3750-32 UNEF-2A	#23 .018/.022 0.46/0.56
6	.788	20.02	.598	15.19	.522	13.26	.362	9.19	.595	15.11	.410	10.42	.635	16.13	.4375-28 UNEF-2A	#20/20HD .025/.027 0.64/0.69
7	.895	22.73	.708	17.98	.590	14.99	.436	11.07	.723	18.36	.536	13.61	.755	19.18	.5625-32 UN-2A	#16 .060/.064 1.52/1.63
8	1.154	29.31	.964	24.49	.665	16.98	.500	12.70	.790	20.07	.593	15.10	.830	21.08	.6250-28 UN-2A	#12 .092/.096 2.34/2.44
9	1.210	30.73	1.017	25.83	.721	18.31	.561	14.25	.790	20.07	.596	15.14	.830	21.08	.6250-28 UN-2A	
10	1.291	32.79	1.101	27.97	.795	20.19	.635	16.13	.925	23.51	.721	.721	.955	24.26	.7500-28 UN-2A	
12	1.395	35.43	1.204	30.58	.874	22.20	.714	18.14	1.044	26.52	.845	21.46	1.078	27.38	.8750-28 UN-2A	
14	1.550	39.37	1.280	32.51	1.050	26.67	.865	21.97	1.230	31.24	1.022	25.96	1.264	32.11	1.0625-20 UN-2A	
15	N/A	N/A	N/A	N/A	N/A	N/A	.924	23.47	1.287	32.69	1.093	27.76	1.322	33.58	1.1250-28 UN-2A	

2M801 Hermetic

Ordering Guide for Hermetic Receptacle 2M801-012



2M801 Series of Hermetic Receptacles provide superior sealing of 1×10^{-9} cc/second helium leak rate and are 100% tested prior to shipping. This superior sealing is accomplished through the use of glass insulator fused to stainless steel shells and iron alloy contacts.

2M801 FEATURES INCLUDE:

- Low profile shells for minimum box protrusion
- Shell Standoffs for PC Board washout
- Non-removable PC and/or Solder cup contacts
- Hermetic Sealing



1. SERIES	2. SHELL SIZE	3. SERVICE CLASS	4. SHELL SIZE-INSERT AGGMT	5. CONTACTS	6. KEYING
2M801-012	-02	Z1	6-7	P	A

Example Part Number

1. SERIES	
Part #	Description
2M801-012	Hermetic Receptacles with Printed Circuit Board Contacts or Solder cup contacts

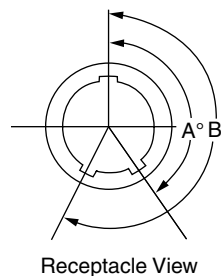
2. SHELL SIZE	
Part #	Description
-02	Flange Mount
-03	Weld Mount (only available is Z1 finish)
-07	Jam Nut

3. SERVICE CLASS			
Material	Part #	Description	RoHS
STAINLESS STEEL	Z1	Passivated	
	ZL	Nickel Plated	
	ZB	Stainless Steel with Olive Drab Cadmium Finish	

4. SHELL SIZE-INSERT ARRANGEMENT	
See Table pg 7-20	

5. CONTACTS	
Part #	Description
P	Pin- Solder Cup
C	Pin-PC Tail
H	Pin, Solder Cup- Without Interfacial Seal
Y	Pin, PC Tail- Without Interfacial Seal

6. KEYING		
Part #	A°	B°
A (NORMAL)	150°	210°
B	75°	210°
C	95°	230°
D	140°	275°
E	75°	275°
F	95°	210°

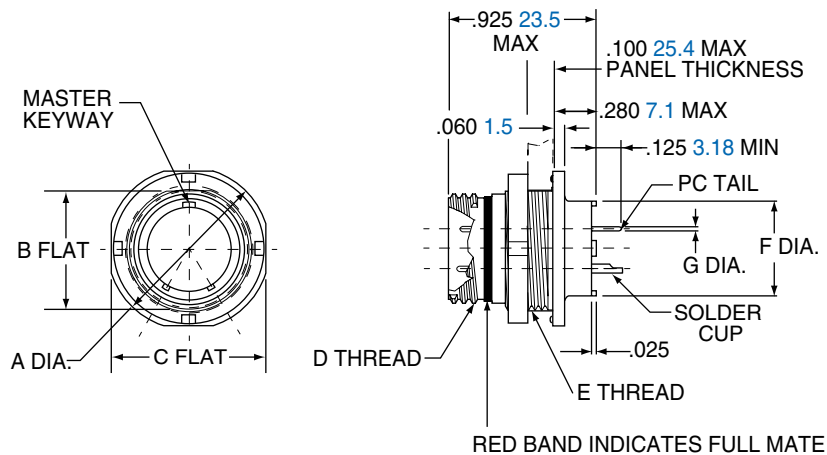


Note: Please contact the factory directly for a listing of tooled interfacial seals for the hermetically sealed connectors.

2M801 Hermetic

Hermetic Jam Nut Connector 2M801-012-07

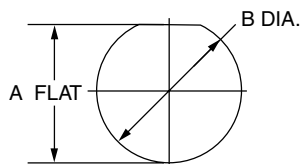
2M801-012-07



Shell Size	A Dia.		B Flat		C Flat		D Thread	UN-2A E Thread	F Dia.		G Dia. Tail Dia.
	in.	mm.	in.	mm.	in.	mm.			in.	mm.	
5	.575	14.61	.350	8.89	.545	13.84	.3125-.05P-.1L-2A	.3750-28	.244	6.20	#23 .018/.022 0.46/0.56
6	.635	16.13	.410	10.41	.595	15.11	.3750-.05P-.1L-2A	.4375-28	.330	8.38	#20/20HD .024/.028 0.64/0.69
7	.755	19.18	.536	13.61	.723	18.36	.4375-.05P-.1L-2A	.5625-32	.432	10.97	
8	.755	19.18	.536	13.61	.723	18.36	.5000-.05P-.1L-2A	.5625-32	.493	12.52	
9	.830	21.08	.596	15.14	.790	20.07	.5625-.05P-.1L-2A	.6250-28	.551	14.00	
10	.890	22.61	.658	16.71	.855	21.72	.6250-.05P-.1L-2A	.6875-28	.620	15.75	#16 .060/.064 1.52/1.63
13	1.078	27.38	.845	21.46	1.044	26.52	.8125-.1P-.2L-2A	.8750-28	.703	17.86	
16	1.264	32.11	1.022	25.96	1.230	31.24	1.0000-.1P-.2L-2A	1.0625-20	.863	21.92	#12 .092/.096 2.34/2.44
17	1.325	33.66	1.096	27.84	1.290	32.77	1.0625-.1P-.2L-2A	1.125-28	.912	23.16	
21	1.625	41.28	1.345	34.16	1.577	40.06	1.3125-.1P-.2L-2A	1.375-28	1.170	29.72	

PANEL CUTOUT

Shell Size	A Flat		B Dia.	
	in. ±.002	mm. ± 0.05	in. ±.002	mm. ± 0.05
5	.356	9.04	.385	9.78
6	.416	10.57	.447	11.35
7	.542	13.77	.572	14.53
8	.542	13.77	.572	14.53
9	.602	15.29	.635	16.13
10	.666	16.92	.697	17.70
13	.851	21.62	.885	22.48
16	1.028	26.11	1.075	27.31
17	1.102	27.99	1.135	28.83
21	1.354	34.39	1.385	35.18

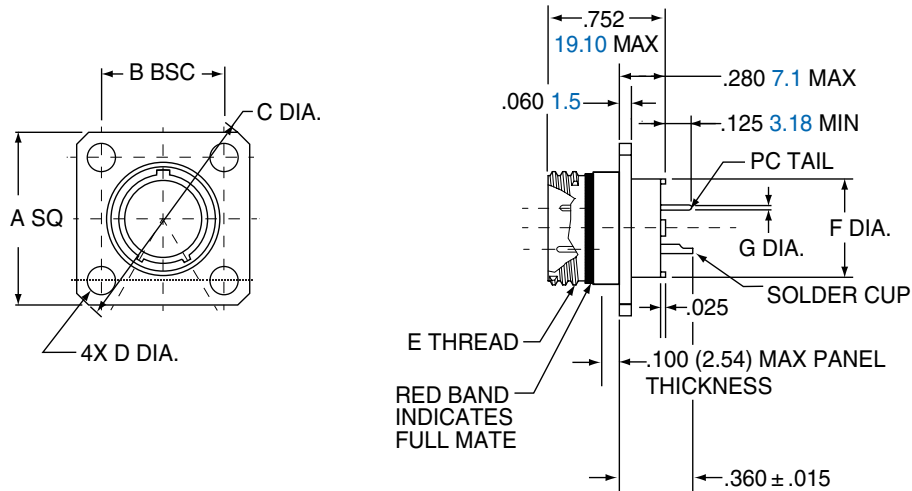


2M801 Dual-Start ACME Threads

Hermetic Square Flange Connector 2M801-012-02



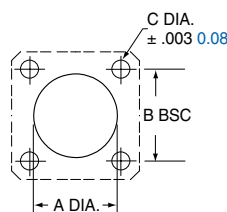
2M801-012-02



Shell Size	A SQ.		B BSC		C Dia.		D Dia.		E Thread	F Dia.		G. Dia. Tail Dia.
	in.	mm.	in.	mm.	in.	mm.	in. ±.003	mm. ± 0.08		in.	mm.	
5	.530	13.46	.363	9.22	.680	17.27	.093	2.36	.3125-.05P-.1L-2A	.244	6.20	#23 .018/.022 0.46/0.56
6	.590	14.99	.423	10.74	.750	19.05	.093	2.36	.3750-.05P-.1L-2A	.330	8.38	
7	.650	16.51	.483	12.27	.850	21.59	.093	2.36	.4375-.05P-.1L-2A	.432	10.97	
8	.712	18.08	.545	13.84	.938	23.83	.093	2.36	.5000-.05P-.1L-2A	.493	12.52	#20/20HD .025/.027 0.64/0.69
9	.850	21.56	.607	15.42	1.125	28.58	.128	3.25	.5625-.05P-.1L-2A	.551	14.00	
10	.890	22.61	.670	17.02	1.188	30.18	.128	3.25	.6250-.05P-.1L-2A	.620	15.75	#16
13	1.030	26.16	.812	20.62	1.375	34.93	.128	3.25	.8125-.1P-.2L-2A	.703	17.86	.060/.064 1.52/1.63
16	1.219	31.96	.981	24.92	1.625	41.28	.128	3.25	1.0000-.1P-.2L-2A	.863	21.92	
17	1.280	32.51	1.060	26.92	1.700	43.18	.128	3.25	1.0625-.1P-.2L-2A	.912	23.16	#12
21	1.430	36.32	1.205	30.61	1.940	49.28	.128	3.25	1.3125-.1P-.2L-2A	1.170	29.72	.092/.096 2.34/2.44

PANEL CUTOUT

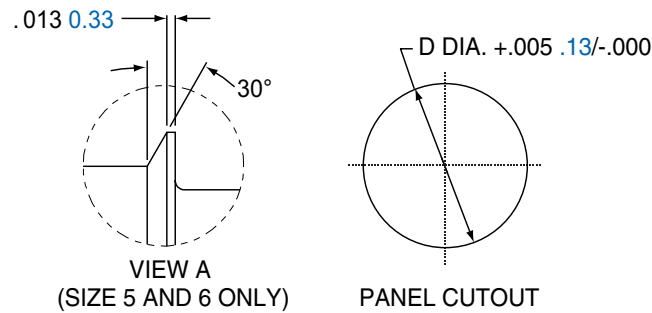
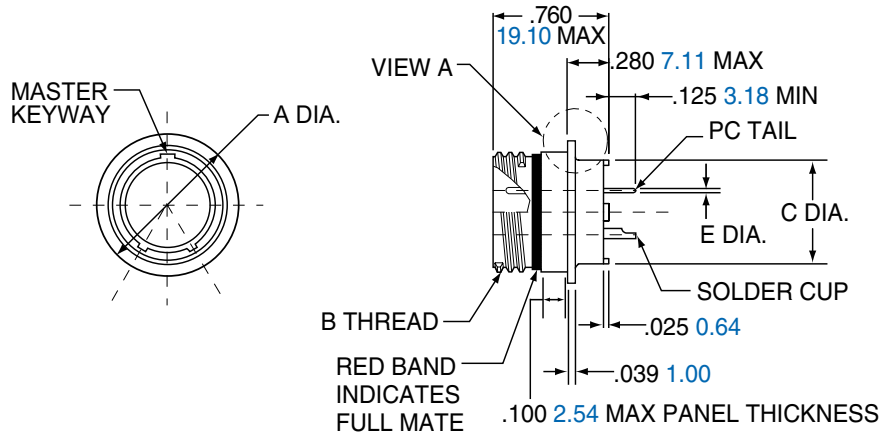
Shell Size	A Dia.		B BSC		C Dia.	
	in.	mm.	in.	mm.	in.	mm.
5	.330	8.38	.363	9.22	.093	2.36
6	.390	9.91	.423	10.74	.093	2.36
7	.450	11.43	.483	12.27	.093	2.36
8	.510	12.95	.545	13.84	.093	2.36
9	.575	14.61	.607	15.42	.128	3.25
10	.640	16.26	.670	17.02	.128	3.25
13	.825	20.96	.812	20.65	.128	3.25
16	1.015	25.78	.981	24.92	.128	3.25
17	1.075	27.31	1.060	26.92	.128	3.25
21	1.325	33.66	1.205	30.61	.128	3.25



2M801 Dual-Start ACME Threads

Hermetic Weld Mount Connector 2M801-012-03

2M801-012-03



Shell Size	A Dia		B Thread	C Dia.		D Dia. Panel Cutout		G. PC Tail Dia.
	in.	mm.		in.	mm.	in.	mm.	
5	.395	10.03	.3125-.05P-.1L-2A	.244	6.20	.319	8.10	#23 .018/.022 0.46/0.56
6	.455	11.56	.3750-.05P-.1L-2A	.330	8.38	.379	9.55	
7	.520	13.21	.4375-.05P-.1L-2A	.432	11.97	.438	11.13	#20/20HD .024/.028 0.64/0.69
8	.580	14.73	.5000-.05P-.1L-2A	.493	12.52	.502	11.13	
9	.645	16.38	.5625-.05P-.1L-2A	.551	14.00	.563	14.30	#16 .060/.064 1.52/1.63
10	.705	18.01	.6250-.05P-.1L-2A	.620	15.75	.627	11.13	
13	.895	22.73	.8125-.1P-.2L-2A	.703	17.86	.814	20.68	#12 .092/.096 2.34/2.44
16	1.080	27.43	1.0000-.1P-.2L-2A	.863	21.92	1.007	25.58	
17	1.145	29.08	1.0625-.1P-.2L-2A	.912	23.16	1.067	27.10	
21	1.395	35.43	1.3125-.1P-.2L-2A	1.170	29.72	1.320	33.53	