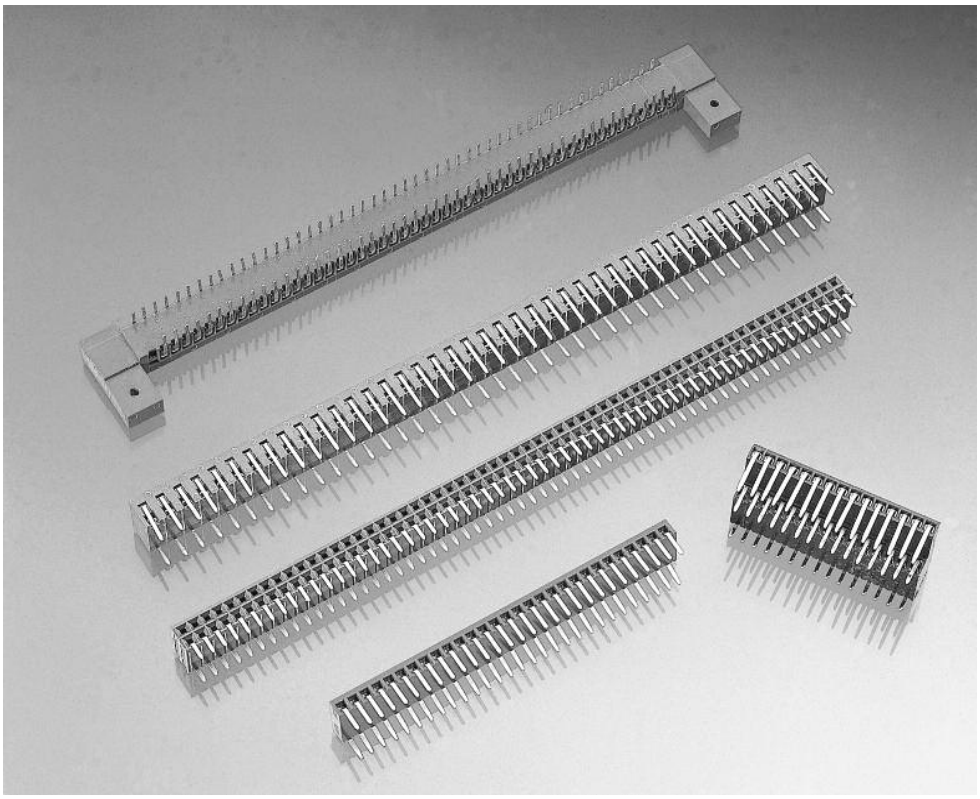
Introduction

Product Facts

- **Qualified to MIL-C-55302/127 and /128**
- **Mates with .025 x .025 [0.64 x 0.64] posts**
- **Dual cantilever spring contact design and built-in anti-overstress**
- **Wide misalignment tolerances**
- **One-piece phosphor bronze contacts, plated gold over nickel per MIL-C-55302**
- **.100 [2.54] centerline spacing**
- **Choice of single or double row assemblies**
- **Assemblies available for .062 [1.57] or .093 [2.36] thick PC boards**
- **Special right-angle receptacle configurations available**



AMPMODU Receptacle Assemblies per MIL-C-55302 are specifically designed to meet today's need for a reliable, modular interconnection system for advanced electronic packaging.

These right-angle assemblies mate with the electronic industry's popular, .025 x .025 [0.64 x 0.64] posts. This means that the AMPMODU Connector system may be used with a host of applications … from individual PC board mount posts to complex post headers and connectors.

Housings are made of blue diallyl phthalate, 94V-0 rated thermoplastic, and are pre-loaded with phosphor bronze contacts, plated .000050 [0.00127] gold over .000050 [0.00127] nickel per MIL-C-55302. A special AMPMODU Receptacle Assembly is available for high temperature requirements. This double row, right-angle assembly has a housing made of polyphenylene sulfide (PPS) GST-40F, per MIL-M-24519 with a choice of contact platings.

Keying plugs are available for all assembly configurations.

Technical Features

Center Spacing — 0.100 [2.54]

Housing Materials — Polyphenylene sulfide or diallyl phthalate

Flammability Rating — 94 V-0

Contact Material — Phosphor bronze

Contact Finish — .000050 [.00127] Gold or gold flash

Temperature Range — -85° to 257°F [-65° to 125°C]

Current Rating — 3 amp max.

Termination Resistance (max) — 12 milliohms max.

Performance Characteristics

Dielectric Withstand Voltage — 750 Vac at sea level

Insulation Resistance — 5000 megohms minimum

Contact Insertion Force — 6 oz. [1.67 N] max. per contact

Durability — 500 cycles

Vibration — MIL-STD-1344 method 2005 Cond III (15G)

Physical Shock — MIL-STD-1344 method 2004 Cond G (100G)

Thermal Shock — MIL-STD-1344 method 1003 Cond A

Temperature Humidity — MIL-STD-1344 method 1002 Type II

Technical Documents
Application spec. 114-25018

Catalog 1308940
Revised 9-14

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Dimensions are shown for reference purposes only. Specifications subject to change.

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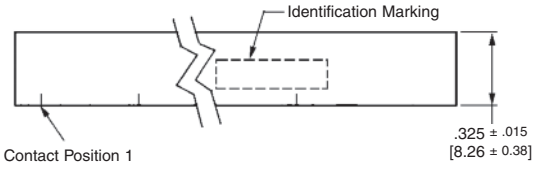
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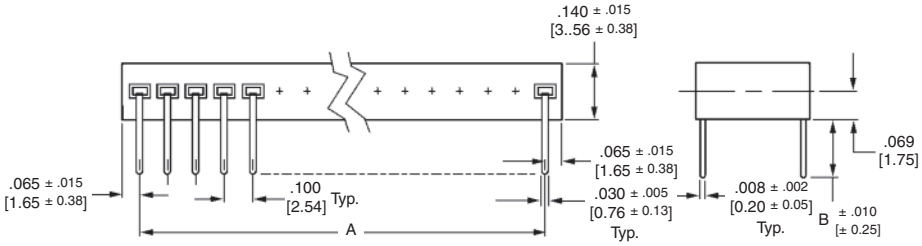
Receptacle Assemblies, Single Row

Material and Finish

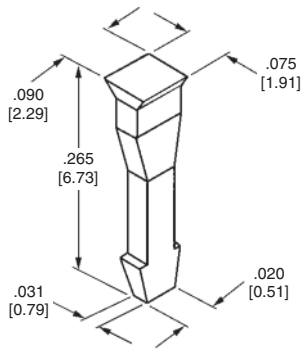
Housing — In accordance with MIL-C-55302 or MIL-M-24519 type GST-40F

Contacts — In accordance with MIL-C-55302





No. of Pos.	Dimensions A	Dimensions B	Board Thickness	Military Part No M55302/127-	AMP Part No.
2	.100 2.54	.175 4.45	.125 3.18	023B	102275-1
3	.200 5.08	.175 4.45	.125 3.18	033B	102275-2
4	.300 7.62	.175 4.45	.125 3.18	043B	102275-3
5	.400 10.16	.175 4.45	.125 3.18	053B	102275-4
6	.500 12.70	.115 2.92	.062 1.57	061B	87968-5
7	**.600** 15.24	.175 4.45	.125 3.18	073B	102275-6
8	.700 17.78	.175 4.45	.125 3.18	083B	102275-7
9	.800 20.32	.175 4.45	.125 3.18	093B	102275-8
10	.900 22.86	.175 4.45	.125 3.18	103B	102275-9
11	1.000 25.40	.175 4.45	.125 3.18	113B	1-102275-0



Keying Plug —
Military Part Number
M55302/127-00KY
Part Number 102188-1

Catalog 1308940
Revised 9-14

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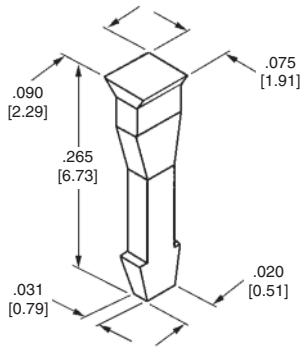
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Receptacle Assemblies, Single Row (Continued)

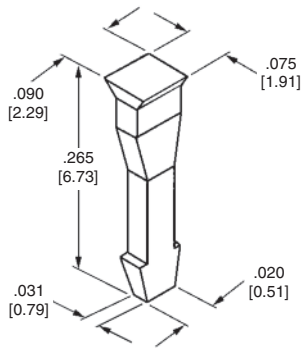
No. of Pos.	Dimensions A	Dimensions B	Board Thickness	Military Part No M55302/127-	AMP Part No.
12	1.100 27.94	.175 4.45	.125 3.18	123B	1-102275-1
13	1.200 30.48	.175 4.45	.125 3.18	133B	1-102275-2
15	1.400 35.56	.175 4.45	.125 3.18	153B	1-102275-4
16	1.500 38.10	.175 4.45	.125 3.18	163B	1-102275-5
17	1.600 40.64	.175 4.45	.125 3.18	173B	1-102275-6
18	1.700 43.18	.175 4.45	.125 3.18	183B	1-102275-7
19	1.800 45.72	.175 4.45	.125 3.18	193B	1-102275-8
20	1.900 48.26	.175 4.45	.125 3.18	203B	1-102275-9
21	2.000 50.80	.145 3.68	.093 2.36	212B	2-87971-0
		.175 4.45	.125 3.18	213B	2-102275-0
22	2.100 5.34	.175 4.45	.125 3.18	223B	2-102275-1
23	2.200 55.88	.175 4.45	.125 3.18	233B	2-102275-2
24	2.300 58.42	.175 4.45	.125 3.18	243B	2-102275-3
25	2.400 60.96	.175 4.45	.125 3.18	253B	2-102275-4
26	2.500	.175 4.45	.125 3.18	263B	2-102275-5
27	2.600 66.04	.145 3.68	.093 2.36	272B	2-87971-6
		.175 4.45	.125 3.18	273B	2-102275-6
28	2.700 68.58	.175 4.45	.125 3.18	283B	2-102275-7
29	2.800 71.12	.175 4.45	.125 3.18	293B	2-102275-8
30	2.900 73.66	.175 4.45	.125 3.18	303B	2-102275-9
31	3.000 76.20	.175 4.45	.125 3.18	313B	3-102275-0
32	3.100 78.74	.175 4.45	.125 3.18	323B	3-102275-1
33	3.200 81.28	.175 4.45	.125 3.18	333B	3-102275-2
34	3.300 83.82	.175 4.45	.125 3.18	343B	3-102275-3
35	3.400 86.36	.175 4.45	.125 3.18	353B	3-102275-4
36	3.500 88.90	.175 4.45	.125 3.18	363B	3-102275-5
37	3.600 91.44	.175 4.45	.125 4.45	373B	3-102275-6
38	3.700 93.98	.175 4.45	.125 3.18	383B	3-102275-7
39	3.800 96.52	.175 4.45	.125 3.18	393B	3-102275-8



Keying Plug —
Military Part Number
M55302/127-00KY
Part Number 102188-1

Receptacle Assemblies, Single Row (Continued)

No. of Pos.	Dimensions A	Dimensions B	Board Thickness	Military Part No M55302/127-	AMP Part No.
40	3.900 99.06	145 3.68	.093 2.36	402B	3-87971-9
		.175 4.45	.125 3.18	403B	3-102275-9
41	4.000 101.60	.175 4.45	.125 3.18	413B	4-102275-0
42	4.100 104.14	.175 4.45	.125 3.18	423B	4-102275-1
43	4.200 106.68	.175 4.45	.125 3.18	433B	4-102275-2
44	4.300 109.22	.175 4.45	.125 3.18	443B	4-102275-3
45	4.400 111.76	.175 4.45	.125 3.18	453B	4-102275-4
46	4.500 114.30	.175 4.45	.125 3.18	463B	4-102275-5
47	4.600 116.84	.175 4.45	.125 3.18	473B	4-102275-6
48	4.100 119.38	.175 4.45	.125 3.18	483B	4-102275-7
49	4.800 121.92	.175 4.45	.125 3.18	493B	4-102275-8
50	4.900 124.46	.175 4.45	.125 3.18	503B	4-102275-9
51	5.000 127.00	.175 4.45	.125 3.18	513B	5-102275-0
53	5.200 132.08	.175 4.45	.125 3.18	533B	5-102275-2
54	5.300 134.62	.175 4.45	.125 3.18	543B	5-102275-3
55	5.400 137.16	.175 4.45	.125 3.18	553B	5-102275-4
56	5.500 139.70	.175 4.45	.125 3.18	563B	5-102275-5
57	5.600 142.24	.175 4.45	.125 3.18	573B	5-102275-6
58	5.700 144.78	.175 4.45	.125 3.18	583B	5-102275-7
59	5.800 147.32	.175 4.45	.125 3.18	593B	5-102275-8
60	5.900 149.86	.175 4.45	.125 3.18	603B	5-102275-9
61	6.000 152.40	.175 4.45	.125 3.18	613B	6-102275-0
62	6.100 154.94	.175 4.45	.125 3.18	623B	6-102275-1
63	6.200 157.48	.175 4.45	.125 3.18	633B	6-102275-2
64	6.300 160.02	.175 4.45	.125 3.18	643B	6-102275-3
65	6.400 162.56	.175 4.45	.125 3.18	653B	6-102275-4



Keying Plug —
Military Part Number
M55302/127-00KY
Part Number 102188-1

Catalog 1308940
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Receptacle Assemblies, Double Row

Material and Finish

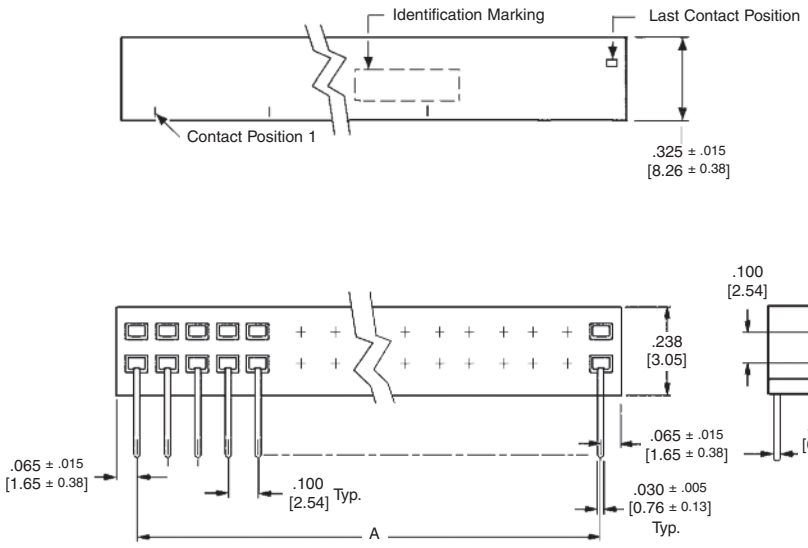
Housing — In accordance with MIL-C-55302 or MIL-M-24519 type GST-40F

Contacts — In accordance with MIL-C-55302

Plating Codes:

A — Gold flash over .000050 [0.00127] min. nickel on entire contact, .000050 [0.00127] min. gold on contact area

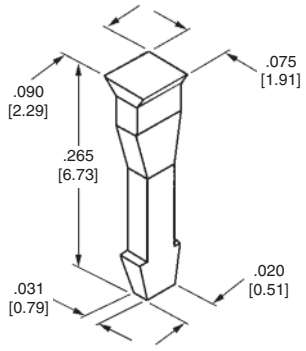
B — .000050 [0.00127] min. gold over .000050 [0.00127] min. nickel on the entire contact



Housing Configuration 1

Typical End View

No. of Pos.	Dimensions A	Dimensions B	Board Thickness	Plating Code A: Military Part No M55302/128-	Plating Code A: Part No.	Plating Code B: Military Part No. M55302/128-	Plating Code B: Part No.
4	**.100** 2.54	**.115** 2.92	**.062** 1.57	AA1A	87961-1	—	—
8	**.300** 7.62	**.145** 3.68	**.093** 2.36	AC1C	87964-3	—	—
10	**.400** 10.16	**.115** 2.92	**.062** 1.57	AD1A	87961-4	AD1B	87962-4
12	**.500** 12.70	**.115** 2.92	**.062** 1.57	AE1A	87961-5	—	—
		.145 3.68	**.093** 2.36	AE1C	87964-5	—	—
14	**.600** 15.24	**.115** 2.92	**.062** 1.57	AF1A	87961-6	AF1B	87962-6
16	**.700** 17.78	**.115** 2.92	**.062** 1.57	AG1A	87961-7	AG1B	87962-7
18	**.800** 20.32	**.115** 2.92	**.062** 1.57	—	—	AH1B	87962-8
		.145 3.68	**.093** 2.36	AH1C	87964-8	—	—
20	**.900** 22.86	**.115** 2.92	**.062** 1.57	AJ1A	87961-9	AJ1B	87962-9
		.145 3.68	**.093** 2.36	—	—	AJ1D	87965-9
22	**1.000** 25.40	**.115** 2.92	**.062** 1.57	AK1A	1-87961-0	AK1B	1-87962-0
		.175 4.45	**.125** 3.18	AK1E	1-102277-0	—	—
24	**1.100** 27.94	**.115** 2.92	**.062** 1.57	AL1A	1-87961-1	AL1B	1-87962-1
26	**1.200** 30.48	**.115** 2.92	**.062** 1.57	AM1A	1-87961-2	AM1B	1-87962-2
		.145 3.68	**.093** 2.36	AM1C	1-87964-2	—	—



Keying Plug —
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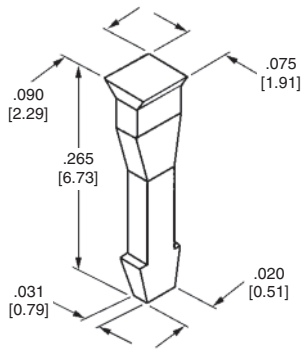
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Receptacle Assemblies, Double Row (Continued)

No. of Pos.	Dimensions A	Dimensions B	Board Thickness	Plating Code A: Military Part No M55302/128-	Plating Code A: Part No.	Plating Code B: Military Part No. M55302/128-	Plating Code B: Part No.
28	**1.300** 33.02	**.115** 2.92	**.062** 1.57	AN1A	1-87961-3	AN1B	1-87962-3
30	**1.400** 35.56	**.115** 2.92	**.062** 1.57	AP1A	1-87961-4	AP1B	1-87962-4
		.145 3.68	**.093** 2.36	AP1C	1-87964-4	—	—
32	**1.500** 38.10	**.115** 2.92	**.062** 1.57	AQ1A	1-87961-5	AQ1B	1-87962-5
34	**1.600** 40.64	**.115** 2.92	**.062** 1.57	—	—	AR1B	1-87962-6
		.145 3.68	**.093** 2.36	AR1C	1-87964-6	—	—
		.175 4.45	**.125** 3.18	AR1E	1-102277-6	—	—
36	**1.700** 43.18	**.115** 2.92	**.062** 1.57	BA1A	1-87961-7	BA1B	1-87962-7
		.145 3.68	**.093** 2.36	BA1C	1-87964-7	BA1D	1-87965-7
		.175 4.45	**.125** 3.18	BA1E	1-102277-7	—	—
38	**1.800** 45.72	**.115** 2.92	**.062** 1.57	BB1A	1-87961-8	BB1B	1-87962-8
		.175 4.45	**.125** 3.18	—	—	—	—
40	**1.900** 48.26	**.115** 2.92	**.062** 1.57	BC1A	1-87961-9	BC1B	1-87962-9
		.145 3.68	**.093** 2.36	BC1C	1-87964-9	—	—
42	**2.000** 50.80	**.115** 2.92	**.062** 1.57	BD1A	2-87961-0	BD1B	2-87962-0
		.145 3.68	**.093** 2.36	BD1C	2-87964-0	—	—
44	**2.100** 53.34	**.115** 2.92	**.062** 1.57	—	—	BE1B	2-87962-1
		.175 4.45	**.125** 3.18	—	—	BE1F	2-102278-1
46	**2.200** 55.88	**.115** 2.92	**.062** 1.57	BF1A	2-87961-2	BF1B	2-87962-2
		.145 3.68	**.093** 2.36	BF1C	2-87964-2	—	—
48	**2.300** 58.42	**.115** 2.92	**.062** 1.57	BG1A	2-87961-3	—	—
		.145 3.68	**.093** 2.36	BG1C	2-87964-3	—	—
50	**2.400** 60.96	**.115** 2.92	**.062** 1.57	BH1A	2-87961-4	BH1B	2-87962-4
		.145 3.68	**.093** 2.36	BH1C	2-87964-4	—	—
		.175 4.45	**.125** 3.18	BH1E	2-102277-4	—	—
52	**2.500** 63.50	**.115** 2.92	**.062** 1.57	BJ1A	2-87961-5	BJ1B	2-87962-5
		.145 3.68	**.093** 2.36	BJ1C	2-87964-5	—	—
54	**2.600** 66.04	**.115** 2.92	**.062** 1.57	—	—	BK1B	2-87962-6
56	**2.700** 68.58	**.115** 2.92	**.062** 1.57	BL1A	2-87961-7	BL1B	2-87962-7
58	**2.800** 71.12	**.115** 2.92	**.062** 1.57	BM1A	2-87961-8	BM1B	2-87962-8
60	**2.900** 73.66	**.115** 2.92	**.062** 1.57	BN1A	2-87961-9	BN1B	2-87962-9
		.175 4.45	**.125** 3.18	BN1E	2-102277-9	BN1F	2-102278-9



Keying Plug —
Military Part Number
M55302/127-00KY
Part Number 102188-1

Catalog 1308940
Revised 9-14

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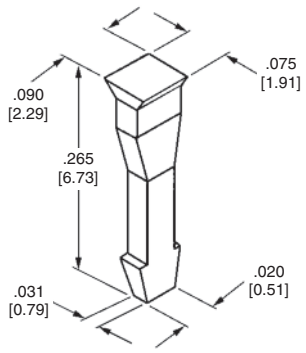
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Receptacle Assemblies, Double Row (Continued)

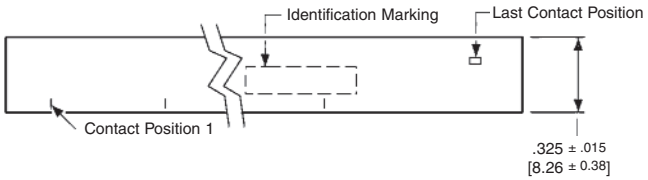
No. of Pos.	Dimensions A	Dimensions B	Board Thickness	Plating Code A Military Part No M55302/128-	Plating Code A Part No.	Plating Code B Military Part No. M55302/128-	Plating Code B Part No.
62	**3.000** 76.20	**.115** 2.92	**.062** 1.57	—	—	BP1B	3-87962-0
		.145 3.68	**.093** 2.36	—	—	BP1D	3-87965-0
64	**3.100** 78.74	**.115** 2.92	**.062** 1.57	—	—	BQ1B	3-87962-1
66	**3.200** 81.28	**.115** 2.92	**.062** 1.57	BR1A	3-87961-2	BR1B	3-87962-2
		.175 4.45	**.125** 3.18	BR1E	3-102277-2	—	—
68	**3.300** 83.82	**.115** 2.92	**.062** 1.57	CA1A	3-87961-3	CA1B	3-87962-3
		.145 3.68	**.093** 2.36	CA1C	3-87964-3	—	—
70	**3.400** 86.36	**.115** 2.92	**.062** 1.57	CB1A	3-87961-4	CB1B	3-87962-4
		.145 3.68	**.093** 2.36	CB1C	3-87964-4	—	—
72	**3.500** 88.90	**.115** 2.92	**.062** 1.57	CC1A	3-87961-5	—	—
74	**3.600** 91.44	**.115** 2.92	**.062** 1.57	CD1A	3-87961-6	CD1B	3-87962-6
76	**3.700** 93.98	**.115** 2.92	**.062** 1.57	CE1A	3-87961-7	—	—
78	**3.800** 96.52	**.115** 2.92	**.062** 1.57	—	—	CF1B	3-87962-8
		.145 3.68	**.093** 2.36	CF1C	3-87964-8	—	—
80	**3.900** 99.06	**.115** 2.92	**.062** 1.57	CG1A	3-87961-9	CG1B	3-87962-9
		.145 3.68	**.093** 2.36	CG1C	3-87964-9	—	—
86	**4.200** 106.68	**.115** 2.92	**.062** 1.57	—	—	CK1B	4-87962-2
88	**4.300** 109.22	**.115** 2.92	**.062** 1.57	CL1A	4-87961-3	—	—
		.145 3.68	**.093** 2.36	—	—	CL1D	4-87965-3
90	**4.400** 111.76	**.115** 2.92	**.062** 1.57	CM1A	4-87961-4	—	—
		.175 4.45	**.125** 3.18	—	—	CM1F	4-102278-4
96	**4.700** 119.38	**.115** 2.92	**.062** 1.57	—	—	CQ1B	4-87962-7
98	**4.800** 121.92	**.115** 2.92	**.062** 1.57	CR1A	4-87961-8	—	—
		.145 3.68	**.093** 2.36	CR1C	4-87964-8	—	—
100	**4.900** 124.46	**.115** 2.92	**.062** 1.57	DA1A	4-87961-9	DA1B	4-87962-9
106	**5.200** 132.08	**.115** 2.92	**.062** 1.57	DD1A	5-87961-2	—	—
108	**5.300** 134.62	**.115** 2.92	**.062** 1.57	DE1A	5-87961-3	—	—
110	**5.400** 137.16	**.115** 2.92	**.062** 1.57	DF1A	5-87961-4	—	—
116	**5.700** 144.78	**.115** 2.92	**.062** 1.57	DJ1A	5-87961-7	DJ1B	5-87962-7
		.145 3.68	**.093** 2.36	DJ1C	5-87964-7	DJ1D	5-87965-7
120	**5.900** 149.86	**.115** 2.92	**.062** 1.57	—	—	DL1B	5-87962-9
122	**6.000** 152.40	**.115** 2.92	**.062** 1.57	DM1A	6-87961-0	DM1B	6-87962-0
124	**6.100** 154.94	**.115** 2.92	**.062** 1.57	DN1A	6-87961-1	—	—
130	**6.400** 162.66	**.115** 2.92	**.062** 1.57	DR1A	6-87961-4	DR1B	6-87962-4

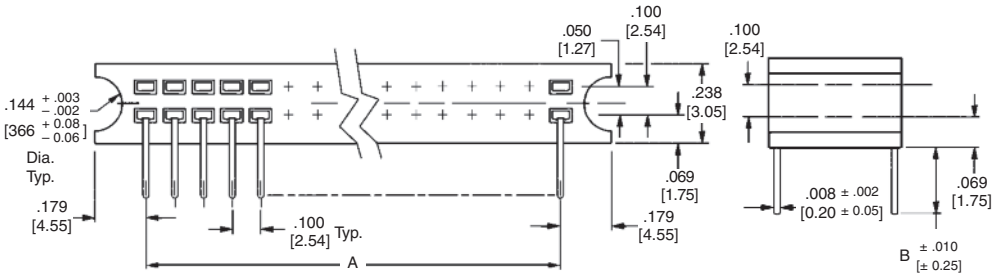


Keying Plug —
Military Part Number
M55302/127-00KY
Part Number 102188-1

Special Double Row Receptacle Assemblies







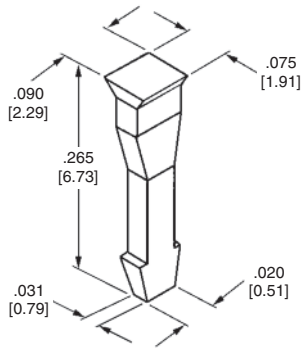
Material and Finish

Housing — In accordance with MIL-C-55302 or MIL-M-24519 type GST-40F

Contacts — Per MIL-C-55302

Plating Codes:
A — Gold flash over .000050 [0.00127] min. nickel on entire contact, .000050 [0.00127] min. gold on contact area
B — .000050 [0.00127] min. gold over .000050 [0.00127] min. nickel on the entire contact

No. of Pos.	Dimensions A	Dimensions B	Board Thickness	Plating Code A: Military Part No M55302/128-	Plating Code A: Part No.	Plating Code B: Military Part No. M55302/128-	Plating Code B: Part No.
22	**1.000** 25.40	**.115** 2.92	**.062** 1.57	AK2A	102192-5	—	—
26	**1.200** 30.48	**.175** 4.45	**.125** 3.18	AM2E	102281-6	—	—
50	**2.400** 60.96	**.115** 2.92	**.062** 1.57	BH2A	102192-8	—	—
		.145 3.68	**.093** 2.36	—	—	BH2D	102196-8
54	**2.600** 66.04	**.115** 2.92	**.062** 1.57	—	—	BK2B	102193-3
58	**2.800** 71.12	**.115** 2.92	**.062** 1.57	BM2A	102192-2	BM2B	102193-2
60	**2.900** 73.66	**.115** 2.92	**.062** 1.57	BN2A	102192-4	—	—
80	**3.900** 99.06	**.115** 2.92	**.062** 1.57	CG2A	102192-9	—	—
84	**4.100** 104.14	**.115** 2.92	**.062** 1.57	—	—	CJ2B	102193-1
100	**4.900** 124.46	**.115** 2.92	**.062** 1.57	DA2A	1-102192-0	DA2B	1-102193-0
102	**5.000** 127.00	**.115** 2.92	**.062** 1.57	—	—	DB2B	102193-7



Keying Plug —
Military Part Number
M55302/127-00KY
Part Number 102188-1

Catalog 1308940
Revised 9-14

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Dimensions are shown for reference purposes only. Specifications subject to change.

Dimensions are in millimeters unless otherwise specified.

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UK: +44 800 267 666

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