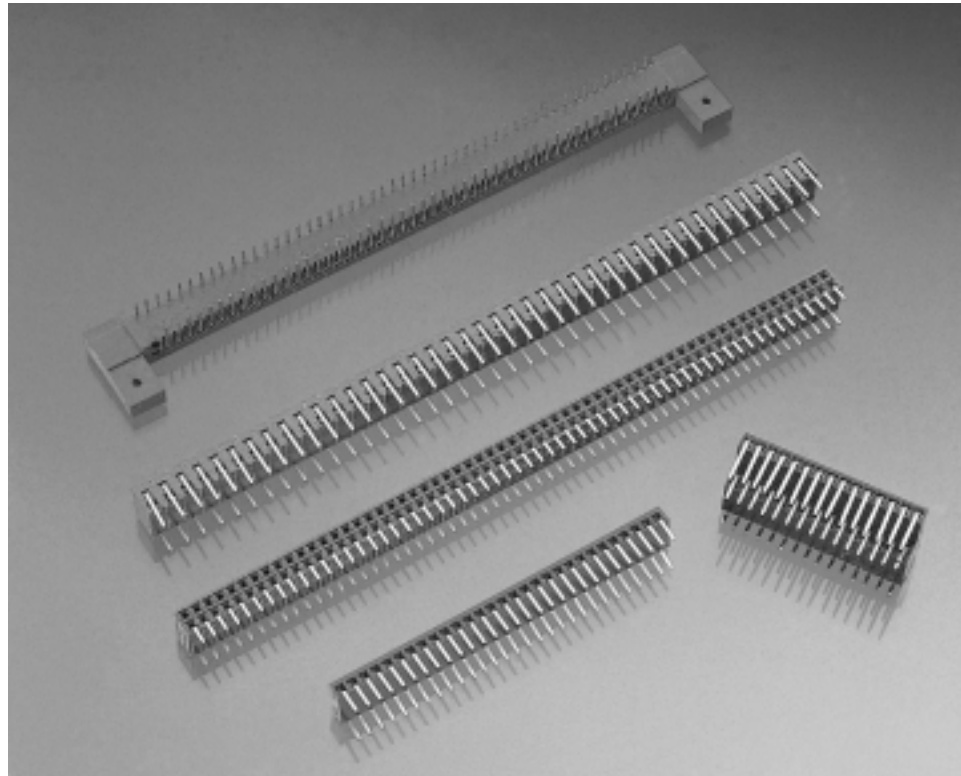


## Introduction

### 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 inter-connection 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

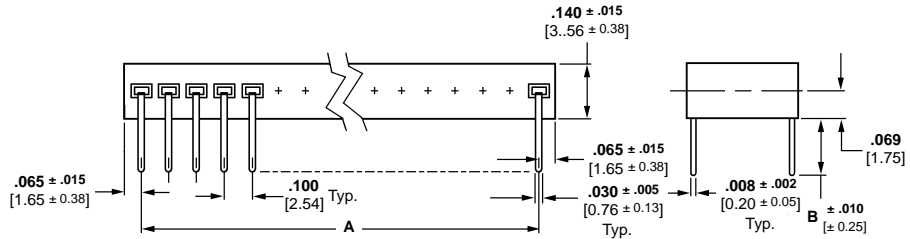
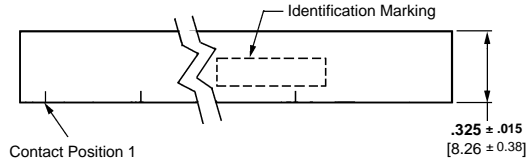
- Center Spacing** — 0.100 [2.54]
- Housing Materials** — Polyphenylene sulfide or diallyl phthalate
- Flammability Rating** — 94 V-0
- Contact Material** — Phosphor bronze
- Contact Finish** — .000050 [0.00127] Gold or gold flash
- Temperature Range** — -65° to 125° C
- Current Rating** — 3 amp max.
- 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

### Receptacle Assemblies, Single Row

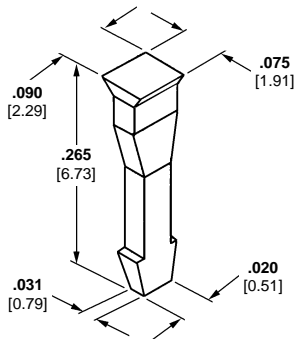
#### Material and Finish:

**Housing** — In accordance with MIL-C-55302 or MIL-M-24519 type GLCP-30F

**Contacts** — In accordance with MIL-C-55302



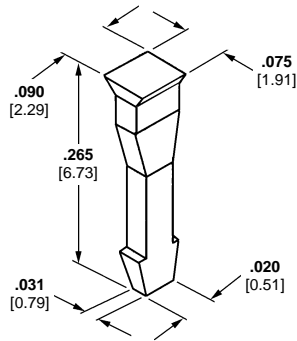
No. of Pos.	Dimensions		Board Thickness	Military Part No M55302/127-	AMP Part No.
	A	B			
2	.100 2.54	.175 4.45	.125 3.18	023B	102275-1
3	.200 5.08	.175 4.45	.125 3.18	033B	102275-2
4	.300 7.62	.115 2.92	.062 1.57	041B	87968-3
		.175 4.45	.125 3.18	043B	102275-3
5	.400 10.16	.115 2.92	.062 1.57	051B	87968-4
		.175 4.45	.125 3.18	053B	102275-4
6	.500 12.70	.115 2.92	.062 1.57	061B	87968-5
		.175 4.45	.125 3.18	063B	102275-5
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	.115 2.92	.062 1.57	101B	87968-9
		.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

Receptacle Assemblies, Single Row (Continued)

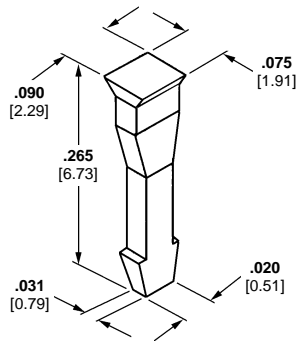
No. of Pos.	Dimensions		Board Thickness	Military Part No M55302/127-	AMP Part No.
	A	B			
12	1.100	.175	.125	123B	1-102275-1
	27.94	4.45			
13	1.200	.175	.125	133B	1-102275-2
	30.48	4.45			
15	1.400	.115	.062	151B	1-87968-4
		2.92			
	35.56	.175	.125	153B	1-102275-4
16	1.500	.175	.125	163B	1-102275-5
	38.10	4.45			
17	1.600	.175	.125	173B	1-102275-6
	40.64	4.45			
18	1.700	.175	.125	183B	1-102275-7
	43.18	4.45			
19	1.800	.175	.125	193B	1-102275-8
	45.72	4.45			
20	1.900	.175	.125	203B	1-102275-9
	48.26	4.45			
21	2.000	.145	.093	212B	2-87971-0
		3.68			
	50.80	.175	.125	213B	2-102275-0
22	2.100	.175	.125	223B	2-102275-1
	5.34	4.45			
23	2.200	.175	.125	233B	2-102275-2
	55.88	4.45			
24	2.300	.175	.125	243B	2-102275-3
	58.42	4.45			
25	2.400	.175	.125	253B	2-102275-4
	60.96	4.45			
26	2.500	.175	.125	263B	2-102275-5
		4.45			
27	2.600	.145	.093	272B	2-87971-6
		3.68			
	66.04	.175	.125	273B	2-102275-6
28	2.700	.175	.125	283B	2-102275-7
	68.58	4.45			
29	2.800	.175	.125	293B	2-102275-8
	71.12	4.45			
30	2.900	.175	.125	303B	2-102275-9
	73.66	4.45			
31	3.000	.175	.125	313B	3-102275-0
	76.20	4.45			
32	3.100	.175	.125	323B	3-102275-1
	78.74	4.45			
33	3.200	.175	.125	333B	3-102275-2
	81.28	4.45			
34	3.300	.175	.125	343B	3-102275-3
	83.82	4.45			
35	3.400	.175	.125	353B	3-102275-4
	86.36	4.45			
36	3.500	.175	.125	363B	3-102275-5
	88.90	4.45			
37	3.600	.175	.125	373B	3-102275-6
	91.44	4.45			
38	3.700	.145	.093	382B	3-87971-7
		3.68			
	93.98	.175	.125	383B	3-102275-7
39	3.800	.175	.125	393B	3-102275-8
	96.52	4.45			



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

**Receptacle Assemblies, Single Row** (Continued)

No. of Pos.	Dimensions		Board Thickness	Military Part No M55302/127-	AMP Part No.
	A	B			
40	3.900 99.06	.115 2.92	.062 1.57	401B	3-87968-9
		.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

## Receptacle Assemblies, Double Row

### Material and Finish:

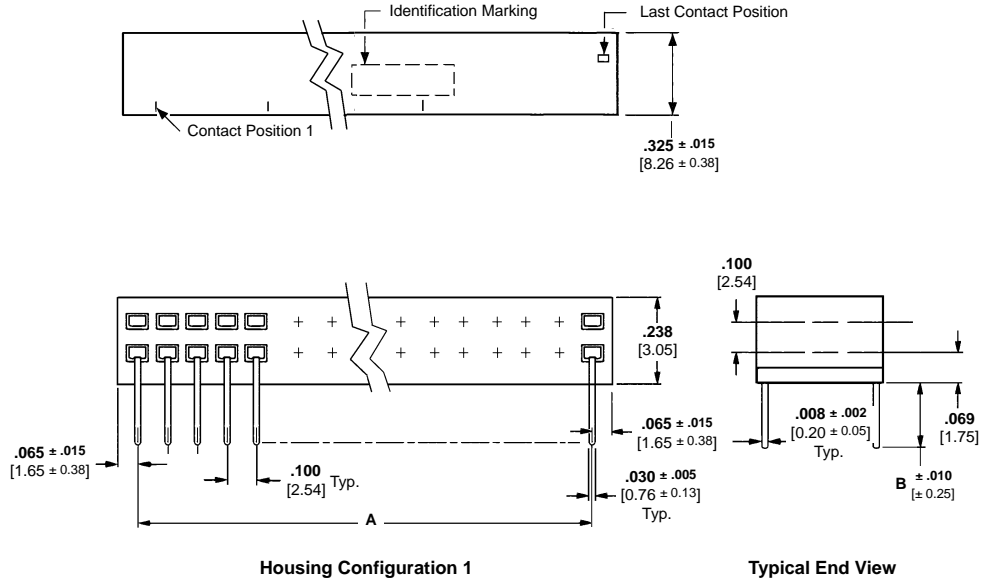
**Housing** — In accordance with MIL-C-55302 or MIL-M-24519 type GLCP-30F

**Contacts** — In accordance with MIL-C-55302

### Plating Codes:

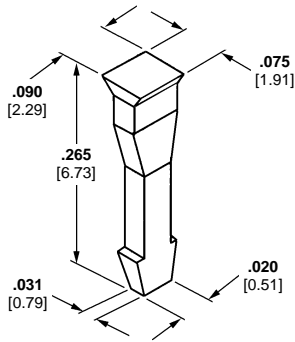
**A** — Gold flash over .000050 [0.00127] min. nickel on entire contact, .000050 [0.00127] min. gold on contact area

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



4  
Printed Circuit Board Connectors

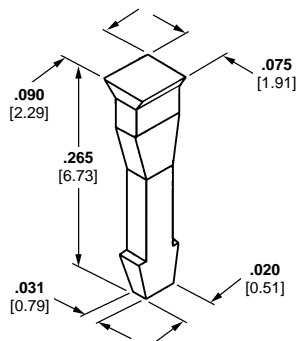
No. of Pos.	Dimensions		Board Thickness	Plating Code A		Plating Code B	
	A	B		Military Part No M55302/128-	Part No.	Military Part No. M55302/128-	Part No.
4	.100 2.54	.115 2.92	.062 1.57	AA1A	87961-1	—	—
8	.300 7.62	.145 3.68	.093 2.36	AC1C	87964-3	—	—
10	.400 10.16	.115 2.92	.062 1.57	AD1A	87961-4	AD1B	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 —**  
Military Part Number  
M55302/127-00KY  
Part Number 102188-1

**Receptacle Assemblies, Double Row** (Continued)

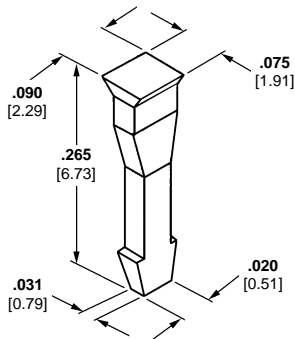
No. of Pos.	Dimensions		Board Thickness	Plating Code A		Plating Code B	
	A	B		Military Part No M55302/128-	Part No.	Military Part No. M55302/128-	Part No.
28	1.300 33.02	.115 2.92	.062 1.57	AN1A	1-87961-3	AN1B	1-87962-3
30	1.400 35.56	.115 2.92	.062 1.57	AP1A	1-87961-4	AP1B	1-87962-4
		.145 3.68	.093 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	2-102778-9



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

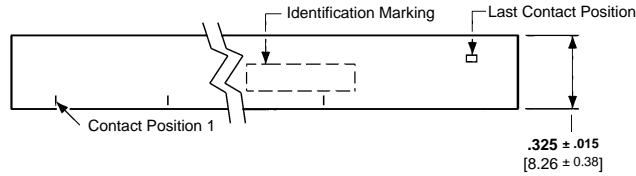
**Receptacle Assemblies, Double Row** (Continued)

No. of Pos.	Dimensions		Board Thickness	Plating Code A		Plating Code B	
	A	B		Military Part No M55302/128-	Part No.	Military Part No. M55302/128-	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
		.115 2.92	.062 1.57	BR1A	3-87961-2	BR1B	3-87962-2
66	3.200 81.28	.115 2.92	.062 1.57	—	—	—	—
		.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



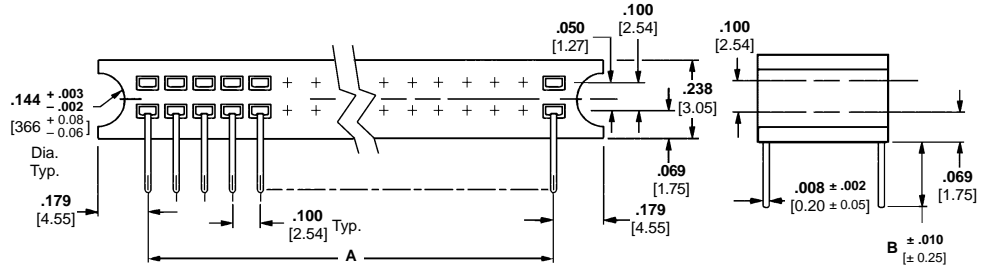
### Material and Finish:

**Housing** — In accordance with MIL-C-55302 or MIL-M-24519 type GLCP-30F

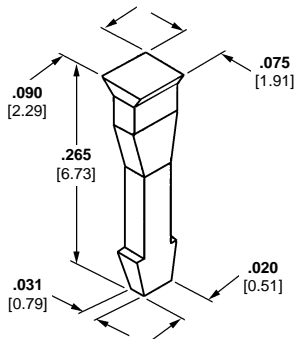
**Contacts** — Per MIL-C-55302

### 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		Board Thickness	Plating Code A		Plating Code B	
	A	B		Military Part No M55302/128-	Part No.	Military Part No. M55302/128-	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**