

Product Dimensions

**0.3 mm, FPC Connector,
Flip Lock Type**

Part Number: 1746237

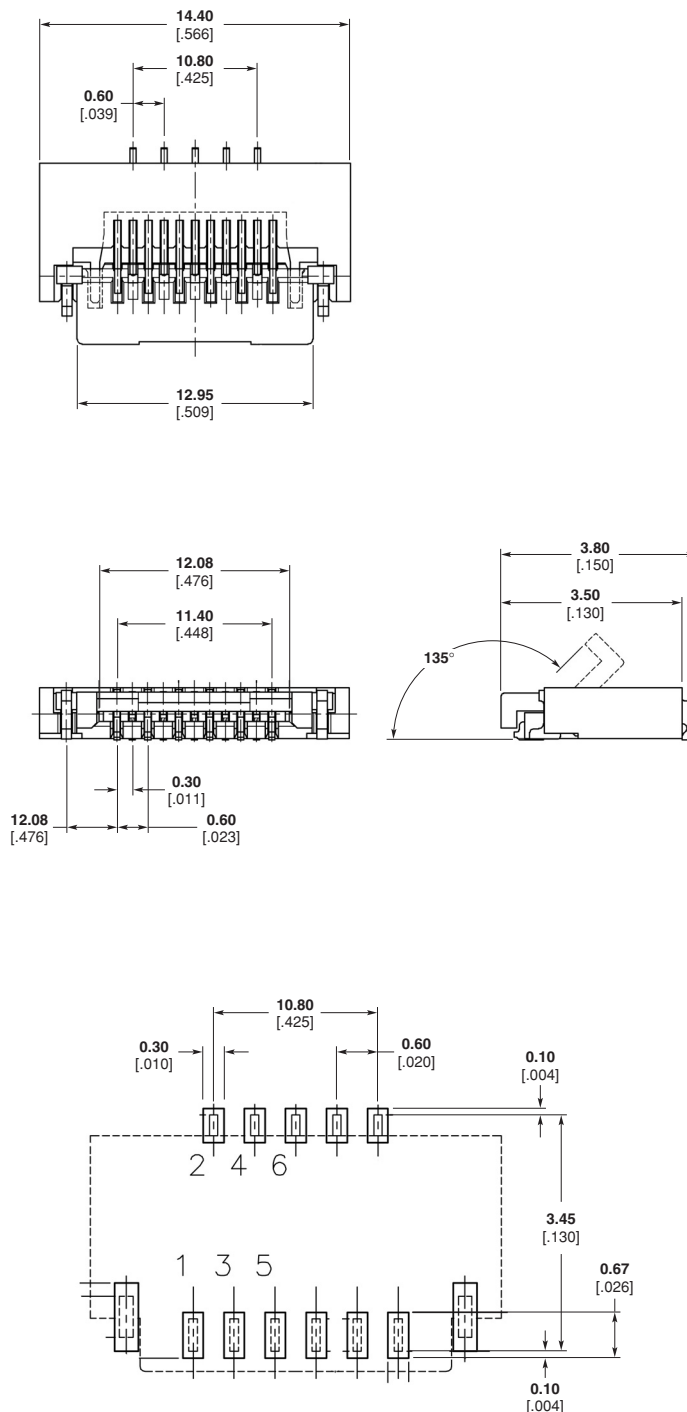
Material and Finish

Housing — Thermoplastic, UL 94V-0

Contacts — Phosphor bronze

Technical Documents

Product Specification — 108-5924



Recommended PCB Layout

Product Dimensions (Continued)

**0.5 mm, FPC/FFC
Connector, ZIF, Vertical,
SMT, Type A**

**Part Number 1470731
Lead Free 1734742**

Material and Finish

Housing — High temperature thermo-
plastic, UL 94V-0, brown color

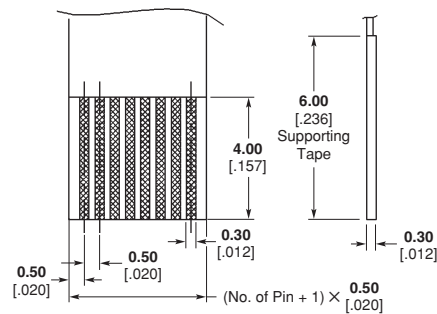
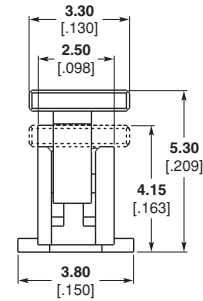
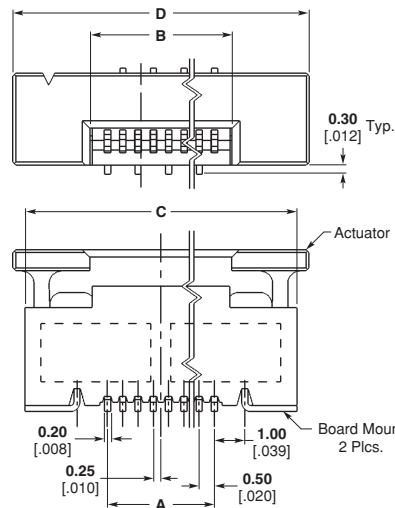
Actuator — High temperature thermo-
plastic, UL 94V-0, natural color

Contacts — Phosphor bronze

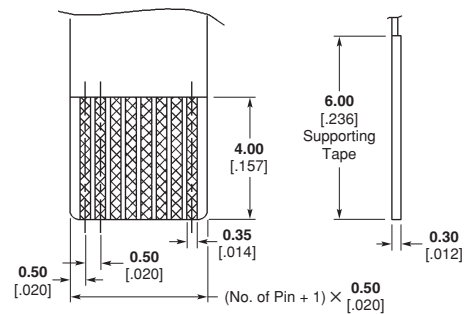
Board Mounts — Brass

Technical Documents

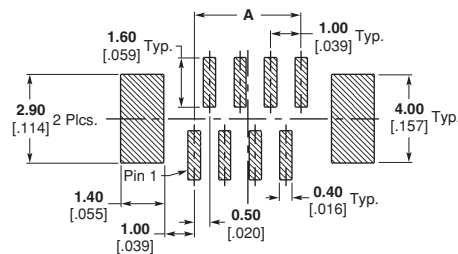
Product Specification — 108-57324



Recommended FFC Layout



Recommended FPC Layout



Recommended PCB Layout

Part Number	No. of Contacts	Dimension			
		A	B	C	D
1-1470731-6	16	7.50 .295	8.65 .341	12.90 .508	13.70 .539
1-1470731-8	18	8.50 .335	9.65 .380	13.90 .547	14.70 .579
2-1470731-0	20	9.50 .374	10.65 .419	14.90 .587	15.70 .618
2-1470731-4	24	11.50 .453	12.65 .498	16.90 .665	17.70 .697
3-1470731-0	30	14.50 .571	15.65 .616	19.90 .783	20.70 .815
4-1470731-0	40	19.50 .768	20.65 .813	25.90 1.020	25.70 1.012

Product Dimensions (Continued)

**0.5 mm, FPC Connector,
SMT, Top Contact**

Part Number 1470359
Lead Free 1734839

Material and Finish

Housing — High temperature thermoplastic, UL 94V-O, natural color

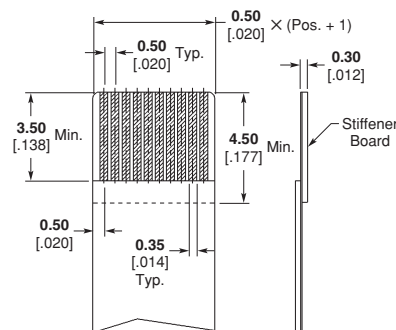
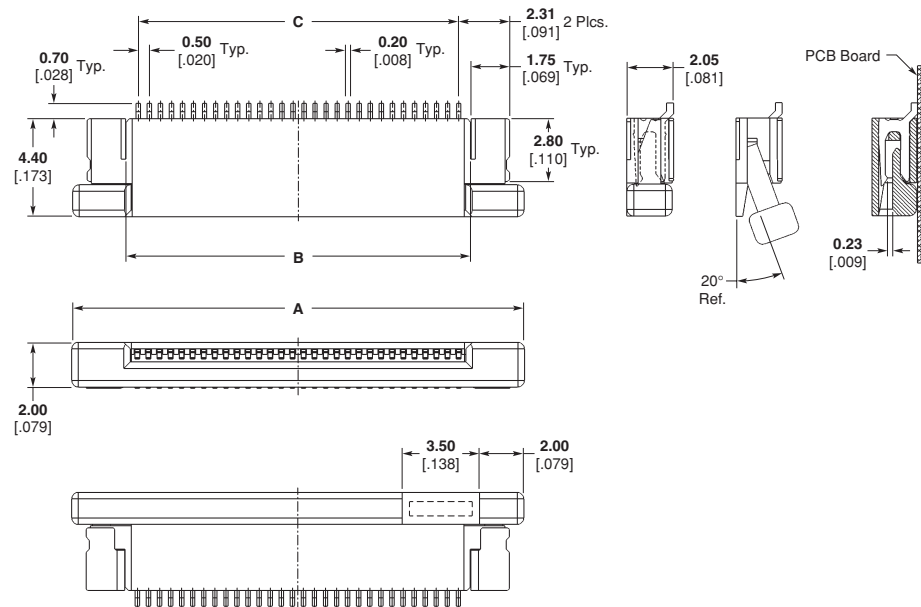
Actuator — Thermoplastic, UL 94V-O, ivory color

Hold Down — Phosphor bronze

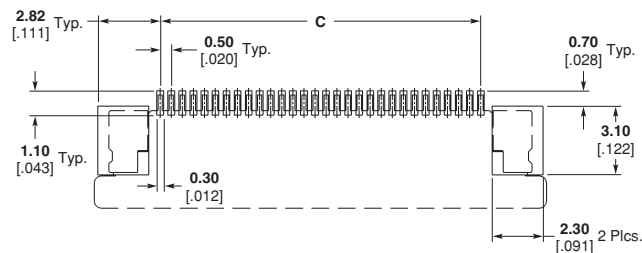
Contact — Phosphor bronze

Technical Documents

Product Specification — 108-57238



Recommended FPC Layout



Recommended PCB Layout

Product Dimensions (Continued)

**0.5 mm, FPC Connector,
SMT, Top Contact**

**Part Number 1470359
Lead Free 1734839**

Part Number	Position	Dimension		
		A	B	C
1470359-5	5	7.93 .312	3.10 .122	2.00 .078
1470359-6	6	8.43 .331	3.60 .141	2.50 .098
1470359-7	7	8.93 .351	4.10 .161	3.00 .118
1470359-8	8	9.43 .371	4.60 .181	3.50 .137
1470359-9	9	9.93 .390	5.10 .200	4.00 .157
1-1470359-0	10	10.43 .410	5.60 .220	4.50 .177
1-1470359-1	11	10.93 .430	6.10 .240	5.00 .196
1-1470359-2	12	11.43 .450	6.60 .259	5.50 .216
1-1470359-3	13	11.93 .469	7.10 .279	6.00 .236
1-1470359-4	14	12.43 .489	7.60 .299	6.50 .255
1-1470359-5	15	12.93 .509	8.10 .318	7.00 .275
1-1470359-6	16	13.43 .528	8.60 .338	7.50 .295
1-1470359-7	17	13.93 .548	9.10 .358	8.00 .314
1-1470359-8	18	14.43 .568	9.60 .377	8.50 .334
1-1470359-9	19	14.93 .587	10.10 .397	9.00 .354
2-1470359-0	20	15.43 .607	10.60 .417	9.50 .374
2-1470359-1	21	15.93 .627	11.10 .437	10.00 .393
2-1470359-2	22	16.43 .646	11.60 .456	10.50 .413
2-1470359-3	23	16.93 .666	12.10 .476	11.00 .433
2-1470359-4	24	17.43 .686	12.60 .496	11.50 .452
2-1470359-5	25	17.93 .705	13.10 .515	12.00 .472
2-1470359-6	26	18.43 .725	13.60 .535	12.50 .492
2-1470359-7	27	18.93 .745	14.10 .555	13.00 .511

Part Number	Position	Dimension		
		A	B	C
2-1470359-8	28	19.43 .764	14.60 .574	13.50 .531
2-1470359-9	29	19.93 .784	15.10 .594	14.00 .551
3-1470359-0	30	20.43 .804	15.60 .614	14.50 .570
3-1470359-1	31	20.93 .824	16.10 .633	15.00 .590
3-1470359-2	32	21.43 .843	16.60 .653	15.50 .610
3-1470359-3	33	21.93 .863	17.10 .673	16.00 .629
3-1470359-4	34	22.43 .883	17.60 .692	16.50 .649
3-1470359-5	35	22.93 .902	18.10 .712	17.00 .669
3-1470359-6	36	23.43 .922	18.60 .732	17.50 .688
3-1470359-7	37	23.93 .942	19.10 .751	18.00 .708
3-1470359-8	38	24.43 .961	19.60 .771	18.50 .728
3-1470359-9	39	24.93 .981	20.10 .791	19.00 .748
4-1470359-0	40	25.43 1.001	20.60 .811	19.50 .767
4-1470359-1	41	25.93 1.020	21.10 .830	20.00 .787
4-1470359-2	42	26.43 1.040	21.60 .850	20.50 .807
4-1470359-3	43	26.93 1.060	22.10 .870	21.00 .826
4-1470359-4	44	27.43 1.079	22.60 .890	21.50 .846
4-1470359-5	45	27.93 1.099	23.10 .909	22.00 .866
4-1470359-6	46	28.43 1.119	23.60 .929	22.50 .885
4-1470359-7	47	28.93 1.138	24.10 .949	23.00 .905
4-1470359-8	48	29.43 1.158	24.60 .968	23.50 .925
4-1470359-9	49	29.93 1.178	25.10 .988	24.00 .944
5-1470359-0	50	30.43 1.198	25.60 1.008	24.50 .964

Product Dimensions (Continued)

**0.5 mm, FPC Connector,
SMT, Bottom Contact**

Part Number 1470360
Lead Free 1734592

Material and Finish

Housing — High temperature thermo-
plastic, UL 94V-O, natural color

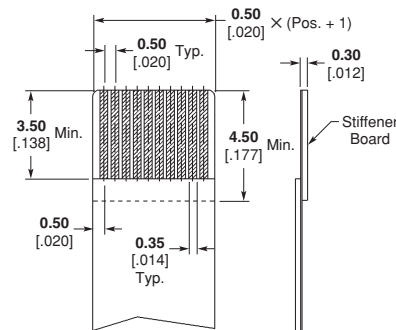
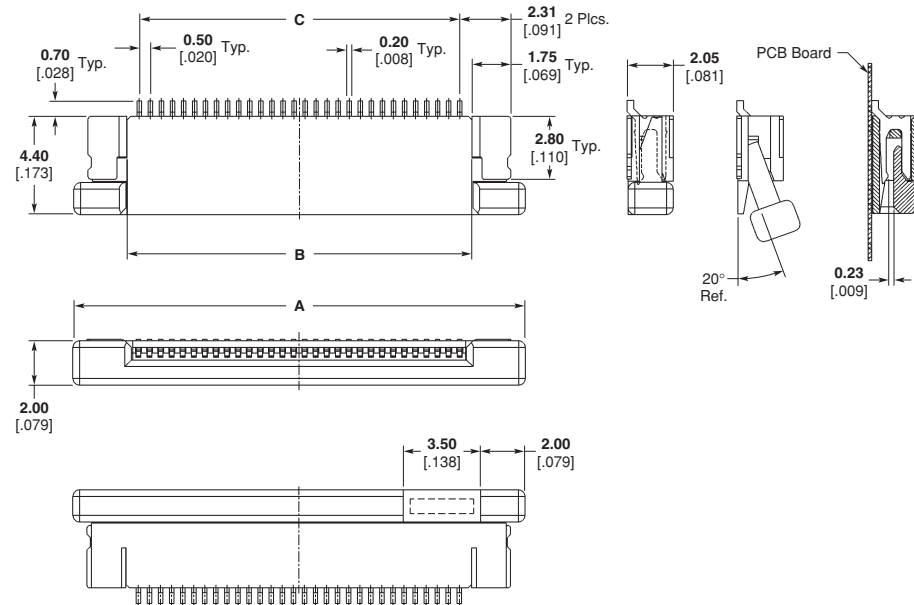
Actuator — Thermoplastic, UL 94V-O,
ivory color

Hold Down — Phosphor bronze

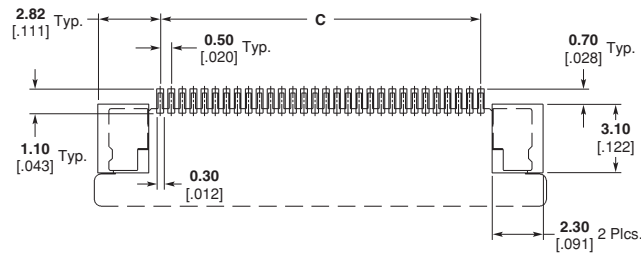
Contact — Phosphor bronze

Technical Documents

Product Specification — 108-57238



Recommended FPC Layout



Recommended PCB Layout

Product Dimensions (Continued)

**0.5 mm, FPC Connector,
SMT, Bottom Contact**

**Part Number 1470360
Lead Free 1734592**

Part Number	Position	Dimension		
		A	B	C
1470360-5	5	7.93 .312	3.10 .122	2.00 .078
1470360-6	6	8.43 .331	3.60 .141	2.50 .098
1470360-7	7	8.93 .351	4.10 .161	3.00 .118
1470360-8	8	9.43 .371	4.60 .181	3.50 .137
1470360-9	9	9.93 .390	5.10 .200	4.00 .157
1-1470360-0	10	10.43 .410	5.60 .220	4.50 .177
1-1470360-1	11	10.93 .430	6.10 .240	5.00 .196
1-1470360-2	12	11.43 .450	6.60 .259	5.50 .216
1-1470360-3	13	11.93 .469	7.10 .279	6.00 .236
1-1470360-4	14	12.43 .489	7.60 .299	6.50 .255
1-1470360-5	15	12.93 .509	8.10 .318	7.00 .275
1-1470360-6	16	13.43 .528	8.60 .338	7.50 .295
1-1470360-7	17	13.93 .548	9.10 .358	8.00 .314
1-1470360-8	18	14.43 .568	9.60 .377	8.50 .334
1-1470360-9	19	14.93 .587	10.10 .397	9.00 .354
2-1470360-0	20	15.43 .607	10.60 .417	9.50 .374
2-1470360-1	21	15.93 .627	11.10 .437	10.00 .393
2-1470360-2	22	16.43 .646	11.60 .456	10.50 .413
2-1470360-3	23	16.93 .666	12.10 .476	11.00 .433
2-1470360-4	24	17.43 .686	12.60 .496	11.50 .452
2-1470360-5	25	17.93 .705	13.10 .515	12.00 .472
2-1470360-6	26	18.43 .725	13.60 .535	12.50 .492
2-1470360-7	27	18.93 .745	14.10 .555	13.00 .511

Part Number	Position	Dimension		
		A	B	C
2-1470360-8	28	19.43 .764	14.60 .574	13.50 .531
2-1470360-9	29	19.93 .784	15.10 .594	14.00 .551
3-1470360-0	30	20.43 .804	15.60 .614	14.50 .570
3-1470360-1	31	20.93 .824	16.10 .633	15.00 .590
3-1470360-2	32	21.43 .843	16.60 .653	15.50 .610
3-1470360-3	33	21.93 .863	17.10 .673	16.00 .629
3-1470360-4	34	22.43 .883	17.60 .692	16.50 .649
3-1470360-5	35	22.93 .902	18.10 .712	17.00 .669
3-1470360-6	36	23.43 .922	18.60 .732	17.50 .688
3-1470360-7	37	23.93 .942	19.10 .751	18.00 .708
3-1470360-8	38	24.43 .961	19.60 .771	18.50 .728
3-1470360-9	39	24.93 .981	20.10 .791	19.00 .748
4-1470360-0	40	25.43 1.001	20.60 .811	19.50 .767
4-1470360-1	41	25.93 1.020	21.10 .830	20.00 .787
4-1470360-2	42	26.43 1.040	21.60 .850	20.50 .807
4-1470360-3	43	26.93 1.060	22.10 .870	21.00 .826
4-1470360-4	44	27.43 1.079	22.60 .890	21.50 .846
4-1470360-5	45	27.93 1.099	23.10 .909	22.00 .866
4-1470360-6	46	28.43 1.119	23.60 .929	22.50 .885
4-1470360-7	47	28.93 1.138	24.10 .949	23.00 .905
4-1470360-8	48	29.43 1.158	24.60 .968	23.50 .925
4-1470360-9	49	29.93 1.178	25.10 .988	24.00 .944
5-1470360-0	50	30.43 1.198	25.60 1.008	24.50 .964

Product Dimensions (Continued)

**1.0 mm, FPC Connector,
ZIF Vertical, SMT**

Part Number 440347
Lead Free 1734248

Material and Finish

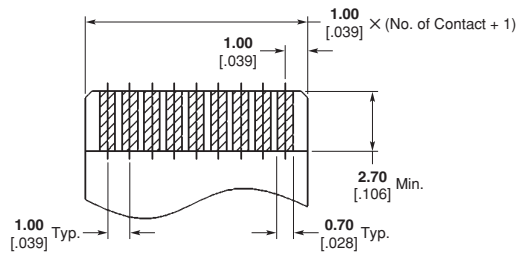
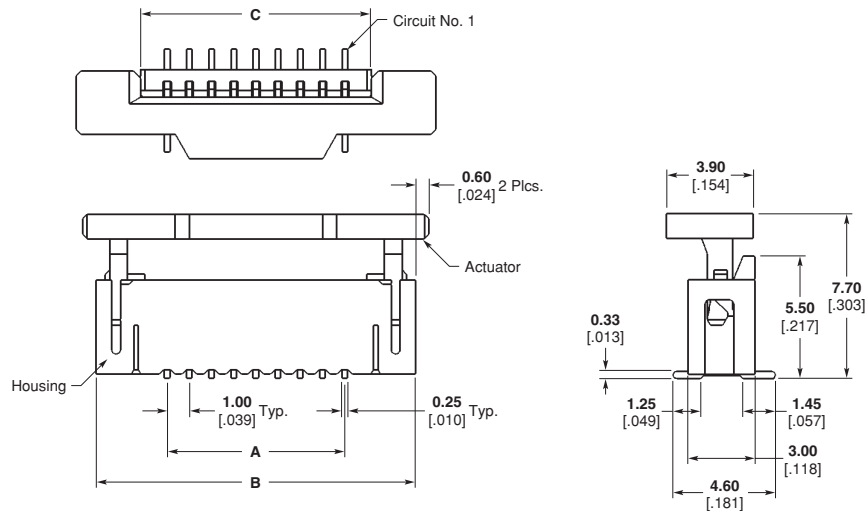
Housing — Thermoplastic, UL 94V-0,
black color

Actuator — PPS, UL 94V-0, brown
color

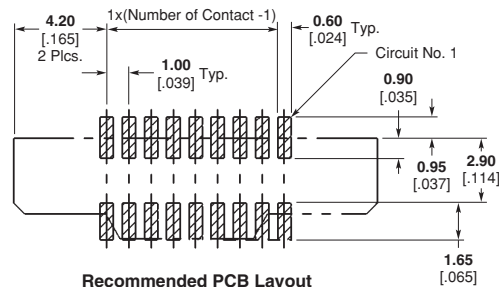
Contact — Phosphor bronze

Technical Documents

Product Specification — 108-57080



Recommended FPC Layout



Recommended PCB Layout

Product Dimensions (Continued)

**1.0 mm, FPC Connector,
ZIF Vertical, SMT**

**Part Number 440347
Lead Free 1734248**

Part Number	Position	Dimension		
		A	B	C
440347-3	3	2.00 .078	8.60 .338	4.40 .173
440347-4	4	3.00 .118	9.60 .377	5.40 .212
440347-5	5	4.00 .157	10.60 .417	6.40 .251
440347-6	6	5.00 .197	11.60 .456	7.40 .291
440347-7	7	6.00 .236	12.60 .496	8.40 .330
440347-8	8	7.00 .276	13.60 .535	9.40 .370
440347-9	9	8.00 .315	14.60 .574	10.40 .409
440347-0	10	9.00 .354	15.60 .614	11.40 .448
1-440347-1	11	10.00 .394	16.60 .653	12.40 .488
1-440347-2	12	11.00 .433	17.60 .692	13.40 .527
1-440347-3	13	12.00 .472	18.60 .732	14.40 .566
1-440347-4	14	13.00 .512	19.60 .771	15.40 .606
1-440347-5	15	14.00 .551	20.60 .811	16.40 .645
1-440347-6	16	15.00 .591	21.60 .850	17.40 .685
1-440347-7	17	16.00 .630	22.60 .889	18.40 .724
1-440347-8	18	17.00 .669	23.60 .929	19.40 .763
1-440347-9	19	18.00 .709	24.60 .968	20.40 .803
2-440347-0	20	19.00 .748	25.60 1.007	21.40 .842
2-440347-1	21	20.00 .787	26.60 1.047	22.40 .881

Part Number	Position	Dimension		
		A	B	C
2-440347-2	22	21.00 .827	27.60 1.086	23.40 .921
2-440347-3	23	22.00 .866	28.60 1.125	24.40 .960
2-440347-4	24	23.00 .906	29.60 1.165	25.40 1.000
2-440347-5	25	24.00 .945	30.60 1.204	26.40 1.039
2-440347-6	26	25.00 .984	31.60 1.244	27.40 1.078
2-440347-7	27	26.00 1.024	32.60 1.283	28.40 1.118
2-440347-8	28	27.00 1.063	33.60 1.322	29.40 1.157
2-440347-9	29	28.00 1.102	34.60 1.362	30.40 1.196
3-440347-0	30	29.00 1.142	35.60 1.401	31.40 1.236
3-440347-1	31	30.00 1.181	36.60 1.440	32.40 1.275
3-440347-2	32	31.00 1.221	37.60 1.480	33.40 1.314
3-440347-3	33	32.00 1.259	38.60 1.519	34.40 1.354
3-440347-4	34	33.00 1.299	39.60 1.559	35.40 1.393
3-440347-5	35	34.00 1.338	40.60 1.598	36.40 1.433
3-440347-6	36	35.00 1.377	41.60 1.637	37.40 1.472
3-440347-7	37	36.00 1.417	42.60 1.677	38.40 1.511
3-440347-8	38	37.00 1.456	43.60 1.716	39.40 1.551
3-440347-9	39	38.00 1.496	44.60 1.755	40.40 1.590
4-440347-0	40	39.00 1.535	45.60 1.795	41.40 1.629

Product Dimensions (Continued)

**1.0 mm, FPC Connector,
Right Angle, SMT, Top
Contact**

Part Number	487951
Lead Free	84953

Material and Finish

Housing — Glass reinforced polyester (LCP), UL 94V-0, natural color

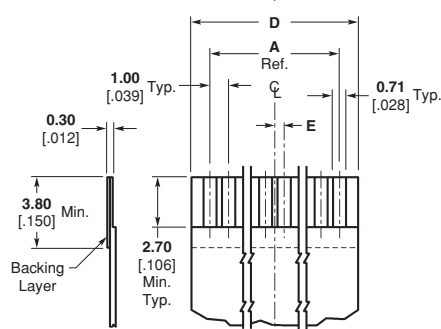
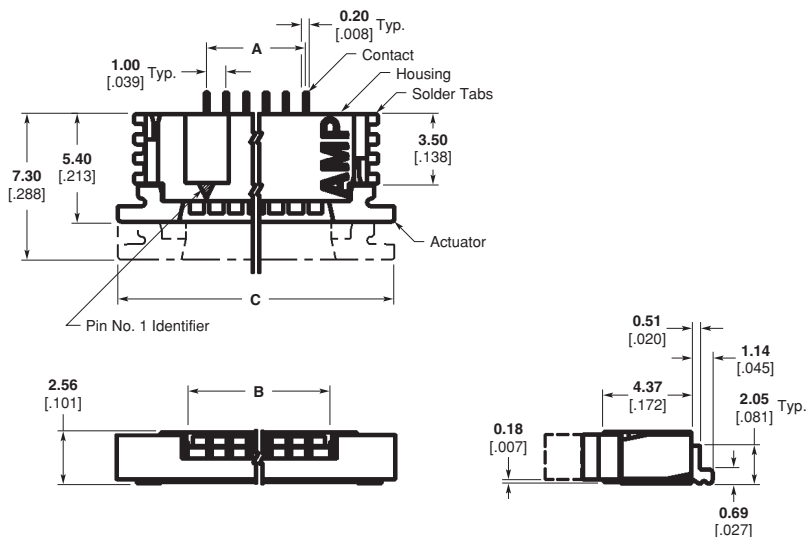
Actuator — Glass reinforced nylon (PPA), UL 94V-O, or glass reinforced PPS, UL 94V-O, black color

Solder Tabs — Phosphor bronze

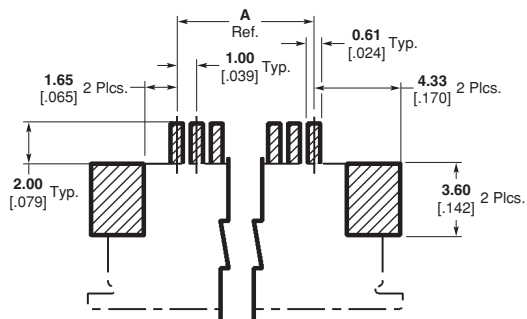
Contact — Phosphor bronze

Technical Documents

Product Specification — 108-1393



Recommended FPC Layout



Recommended PCB Layout

1.0 mm, FPC Connector,
Right Angle, SMT, Top
Contact

Part Number 487951
Lead Free 84953

Technical Documents
Product Specification — 108-1393

Product Dimensions (Continued)

Part Number	Positions	Dimension				
		A	B	C	D	E
84953-4	4	3.00 .118	5.18 .204	11.92 .469	5.00 .197	0.50 .019
84953-5	5	4.00 .157	6.18 .243	12.92 .509	6.00 .236	—
84953-6	6	5.00 .197	7.18 .283	13.92 .548	7.00 .276	0.50 .019
84953-7	7	6.00 .236	8.18 .322	14.92 .587	8.00 .315	—
84953-8	8	7.00 .276	9.18 .361	15.92 .627	9.00 .354	0.50 .019
84953-9	9	8.00 .315	10.18 .401	16.92 .666	10.00 .394	—
1-84953-0	10	9.00 .354	11.18 .440	17.92 .705	11.00 .433	0.50 .019
1-84953-1	11	10.00 .394	12.18 .480	18.92 .745	12.00 .472	—
1-84953-2	12	11.00 .433	13.18 .519	19.92 .784	13.00 .512	0.50 .019
1-84953-3	13	12.00 .472	14.18 .558	20.92 .824	14.00 .551	—
1-84953-4	14	13.00 .512	15.18 .598	21.92 .863	15.00 .591	0.50 .019
1-84953-5	15	14.00 .551	16.18 .637	22.92 .902	16.00 .630	—
1-84953-6	16	15.00 .591	17.18 .676	23.92 .942	17.00 .669	0.50 .019
1-84953-7	17	16.00 .630	18.18 .716	24.92 .981	18.00 .709	—
1-84953-8	18	17.00 .669	19.18 .755	25.92 1.020	19.00 .748	0.50 .019
1-84953-9	19	18.00 .709	20.18 .794	26.92 1.060	20.00 .787	—
2-84953-0	20	19.00 .748	21.18 .834	27.92 1.099	21.00 .827	0.50 .019
2-84953-1	21	20.00 .787	22.18 .873	28.92 1.139	22.00 .866	—
2-84953-2	22	21.00 .827	23.18 .913	29.92 1.179	23.00 .906	0.50 .019
2-84953-3	23	22.00 .866	24.18 .952	30.92 1.217	24.00 .945	—
2-84953-4	24	23.00 .906	25.18 .991	31.92 1.257	25.00 .984	0.50 .019
2-84953-5	25	24.00 .945	26.18 1.031	32.92 1.296	26.00 1.024	—
2-84953-6	26	25.00 .984	27.18 1.070	33.92 1.335	27.00 1.063	0.50 .019
2-84953-7	27	26.00 1.024	28.18 1.109	34.92 1.375	28.00 1.102	—
2-84953-8	28	27.00 1.063	29.18 1.149	35.92 1.414	29.00 1.142	0.50 .019
2-84953-9	29	28.00 1.102	30.18 1.188	36.92 1.454	30.00 1.181	—
3-84953-0	30	29.00 1.142	31.18 1.228	37.92 1.492	31.00 1.221	0.50 .019

Product Dimensions (Continued)

**1.0 mm, FPC Connector,
Right Angle, SMT, Bottom
Contact**

Part Number	487952
Lead Free	84952

Material and Finish

Housing — Glass reinforced polyester (LCP), UL 94V-0, natural color

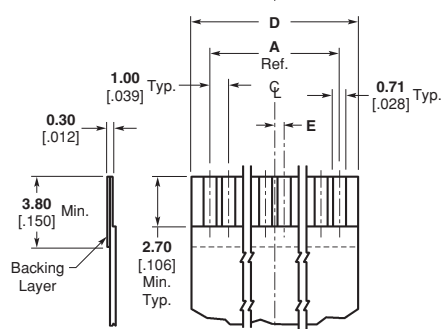
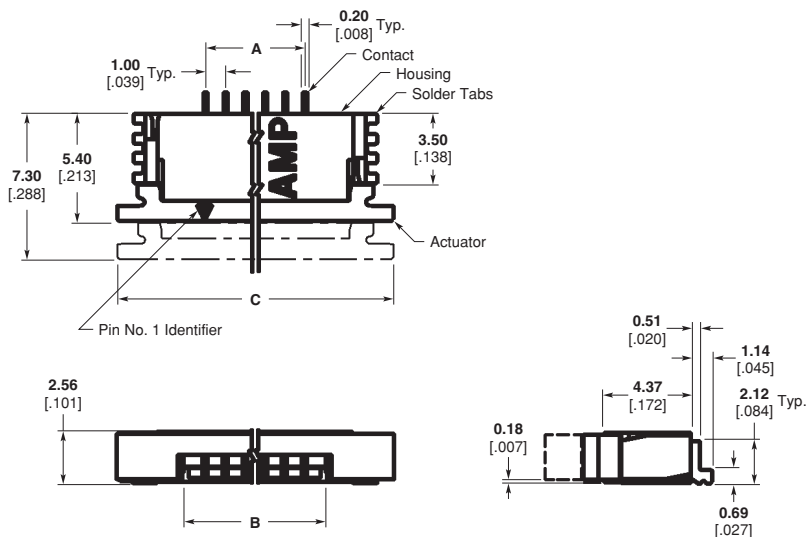
Actuator — Glass reinforced nylon (PPA), UL 94V-O, or glass reinforced PPS, UL 94V-O, black color

Solder Tabs — Phosphor bronze

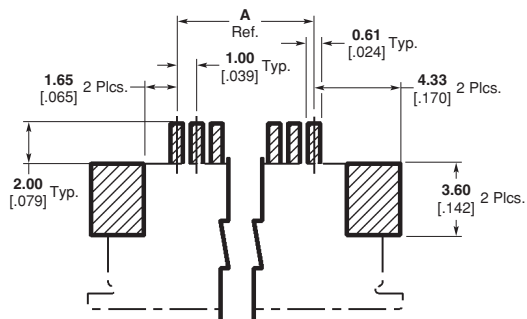
Contact — Phosphor bronze

Technical Documents

Product Specification — 108-1393



Recommended FPC Layout



Recommended PCB Layout

**1.0 mm, FPC Connector,
Right Angle, SMT, Bottom
Contact**

**Part Number 487952
Lead Free 84952**

Technical Documents
Product Specification — 108-1393

FPC Connector Family

Product Dimensions (Continued)

Part Number	Positions	Dimension				
		A	B	C	D	E
84952-4	4	3.00 .118	5.18 .204	11.92 .469	5.00 .197	0.50 .019
84952-5	5	4.00 .157	6.18 .243	12.92 .509	6.00 .236	—
84952-6	6	5.00 .197	7.18 .283	13.92 .548	7.00 .276	0.50 .019
84952-7	7	6.00 .236	8.18 .322	14.92 .587	8.00 .315	—
84952-8	8	7.00 .276	9.18 .361	15.92 .627	9.00 .354	0.50 .019
84952-9	9	8.00 .315	10.18 .401	16.92 .666	10.00 .394	—
1-84952-0	10	9.00 .354	11.18 .440	17.92 .705	11.00 .433	0.50 .019
1-84952-1	11	10.00 .394	12.18 .480	18.92 .745	12.00 .472	—
1-84952-2	12	11.00 .433	13.18 .519	19.92 .784	13.00 .512	0.50 .019
1-84952-3	13	12.00 .472	14.18 .558	20.92 .824	14.00 .551	—
1-84952-4	14	13.00 .512	15.18 .598	21.92 .863	15.00 .591	0.50 .019
1-84952-5	15	14.00 .551	16.18 .637	22.92 .902	16.00 .630	—
1-84952-6	16	15.00 .591	17.18 .676	23.92 .942	17.00 .669	0.50 .019
1-84952-7	17	16.00 .630	18.18 .716	24.92 .981	18.00 .709	—
1-84952-8	18	17.00 .669	19.18 .755	25.92 1.020	19.00 .748	0.50 .019
1-84952-9	19	18.00 .709	20.18 .794	26.92 1.060	20.00 .787	—
2-84952-0	20	19.00 .748	21.18 .834	27.92 1.099	21.00 .827	0.50 .019
2-84952-1	21	20.00 .787	22.18 .873	28.92 1.139	22.00 .866	—
2-84952-2	22	21.00 .827	23.18 .913	29.92 1.179	23.00 .906	0.50 .019
2-84952-3	23	22.00 .866	24.18 .952	30.92 1.217	24.00 .945	—
2-84952-4	24	23.00 .906	25.18 .991	31.92 1.257	25.00 .984	0.50 .019
2-84952-5	25	24.00 .945	26.18 1.031	32.92 1.296	26.00 1.024	—
2-84952-6	26	25.00 .984	27.18 1.070	33.92 1.335	27.00 1.063	0.50 .019
2-84952-7	27	26.00 1.024	28.18 1.109	34.92 1.375	28.00 1.102	—
2-84952-8	28	27.00 1.063	29.18 1.149	35.92 1.414	29.00 1.142	0.50 .019
2-84952-9	29	28.00 1.102	30.18 1.188	36.92 1.454	30.00 1.181	—
3-84952-0	30	29.00 1.142	31.18 1.228	37.92 1.492	31.00 1.221	0.50 .019

Product Dimensions (Continued)

**1.0 mm, FFC Connector,
SMT, Vertical, (Non-ZIF)**

Lead Free 84982

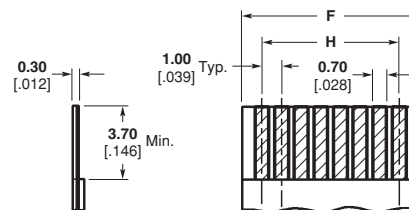
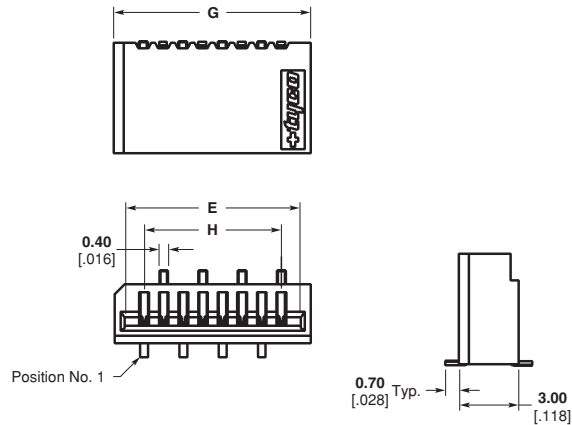
Material and Finish

Housing — Glass filled high temperature nylon, beige color

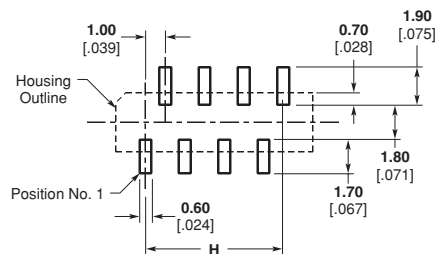
Contact — Phosphor bronze

Technical Documents

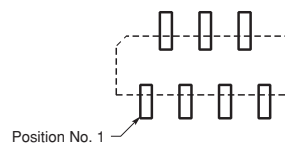
Product Specification — 108-51054



Recommended FFC/FPC Layout



**Recommended PCB Layout
For Even Position Connectors**



**Recommended PCB Layout
For Odd Position Connectors**

1.0 mm, FFC Connector,
SMT, Vertical, (Non-ZIF)

Lead Free 84982

Technical Documents
Product Specification — 108-51054

Product Dimensions (Continued)

Part Number	No. of Contacts	Dimension			
		E	F	G	H
84982-4	4	5.00 .197	5.00 .197	6.00 .236	3.00 .118
84982-5	5	6.00 .236	6.00 .236	7.00 .276	4.00 .157
84982-6	6	7.00 .276	7.00 .276	8.00 .315	5.00 .197
84982-7	7	8.00 .315	8.00 .315	9.00 .354	6.00 .236
84982-8	8	9.00 .354	9.00 .354	10.00 .394	7.00 .276
84982-9	9	10.00 .394	10.00 .394	11.00 .433	8.00 .315
1-84982-0	10	11.00 .433	11.00 .433	12.00 .472	9.00 .354
1-84982-1	11	12.00 .472	12.00 .472	13.00 .512	10.00 .394
1-84982-2	12	13.00 .512	13.00 .512	14.00 .551	11.00 .433
1-84982-3	13	14.00 .551	14.00 .551	15.00 .591	12.00 .472
1-84982-4	14	15.00 .591	15.00 .591	16.00 .630	13.00 .512
1-84982-5	15	16.00 .630	16.00 .630	17.00 .669	14.00 .551
1-84982-6	16	17.00 .669	17.00 .669	18.00 .709	15.00 .591
1-84982-7	17	18.00 .709	18.00 .709	19.00 .748	16.00 .630
1-84982-8	18	19.00 .748	19.00 .748	20.00 .787	17.00 .669
1-84982-9	19	20.00 .787	20.00 .787	21.00 .827	18.00 .709
2-84982-0	20	21.00 .827	21.00 .827	22.00 .866	19.00 .748
2-84982-1	21	22.00 .866	22.00 .866	23.00 .906	20.00 .787
2-84982-2	22	23.00 .906	23.00 .906	24.00 .945	21.00 .827
2-84982-3	23	24.00 .945	24.00 .945	25.00 .984	22.00 .866
2-84982-4	24	25.00 .984	25.00 .984	26.00 1.024	23.00 .906
2-84982-5	25	26.00 1.024	26.00 1.024	27.00 1.063	24.00 .945
2-84982-6	26	27.00 1.063	27.00 1.063	28.00 1.102	25.00 .984
2-84982-7	27	28.00 1.102	28.00 1.102	29.00 1.142	26.00 1.024
2-84982-8	28	29.00 1.142	29.00 1.142	30.00 1.181	27.00 1.063
2-84982-9	29	30.00 1.181	30.00 1.181	31.00 1.221	28.00 1.102
3-84982-0	30	31.00 1.221	31.00 1.221	32.00 1.259	29.00 1.142
3-84982-1	31	32.00 1.259	32.00 1.259	33.00 1.299	30.00 1.181
3-84982-2	32	33.00 1.299	33.00 1.299	34.00 1.338	31.00 1.221
3-84982-3	33	34.00 1.338	34.00 1.338	35.00 1.377	32.00 1.259
3-84982-4	34	35.00 1.377	35.00 1.377	36.00 1.417	33.00 1.299
3-84982-5	35	36.00 1.417	36.00 1.417	37.00 1.456	34.00 1.338
3-84982-6	36	37.00 1.456	37.00 1.456	38.00 1.496	35.00 1.377
3-84982-7	37	38.00 1.496	38.00 1.496	39.00 1.535	36.00 1.417
3-84982-8	38	39.00 1.535	39.00 1.535	40.00 1.574	37.00 1.456
3-84982-9	39	40.00 1.574	40.00 1.574	41.00 1.614	38.00 1.496
4-84982-0	40	41.00 1.614	41.00 1.614	42.00 1.653	39.00 1.535

Product Dimensions (Continued)

**1.0 mm, FFC Connector,
SMT, Right Angle, Non-ZIF**

Lead Free 84981

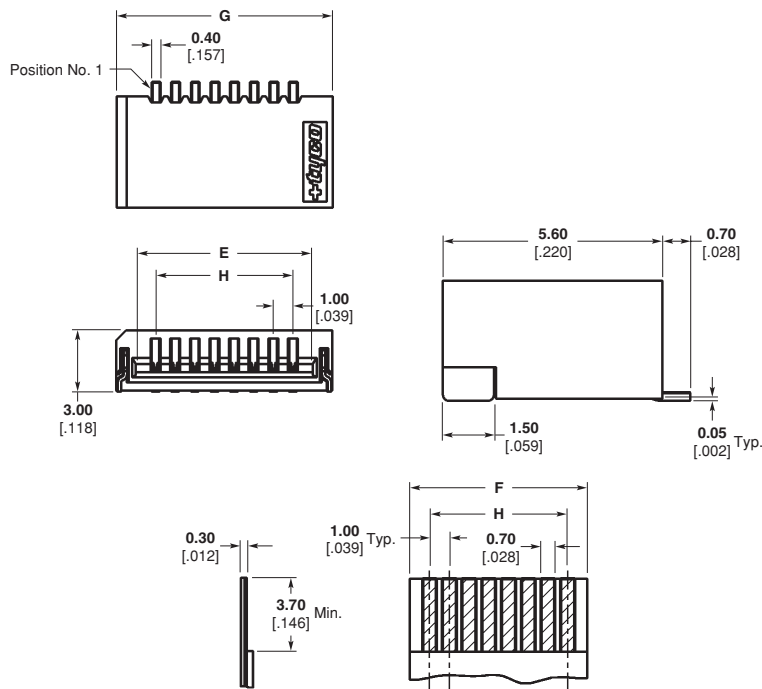
Material and Finish

Housing — Glass filled high temperature nylon, beige color

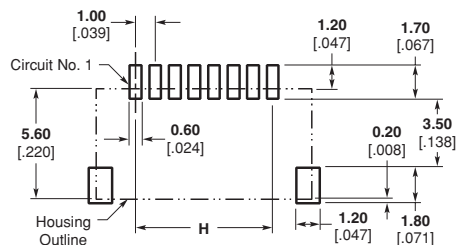
Contact — Phosphor bronze

Technical Documents

Product Specification — 108-51054



Recommended FFC/FPC Layout



Recommended PCB Layout

1.0 mm, FFC Connector,
SMT, Right Angle, Non-ZIF

Lead Free 84981

Technical Documents
Product Specification — 108-51054

Product Dimensions (Continued)

Part Number	No. of Contacts	Dimension			
		E	F	G	H
84981-4	4	5.00 .197	5.00 .197	7.00 .276	3.00 .118
84981-5	5	6.00 .236	6.00 .236	8.00 .315	4.00 .157
84981-6	6	7.00 .276	7.00 .276	9.00 .354	5.00 .197
84981-7	7	8.00 .315	8.00 .315	10.00 .394	6.00 .236
84981-8	8	9.00 .354	9.00 .354	11.00 .433	7.00 .276
84981-9	9	10.00 .394	10.00 .394	12.00 .472	8.00 .315
1-84981-0	10	11.00 .433	11.00 .433	13.00 .512	9.00 .354
1-84981-1	11	12.00 .472	12.00 .472	14.00 .551	10.00 .394
1-84981-2	12	13.00 .512	13.00 .512	15.00 .591	11.00 .433
1-84981-3	13	14.00 .551	14.00 .551	16.00 .630	12.00 .472
1-84981-4	14	15.00 .591	15.00 .591	17.00 .669	13.00 .512
1-84981-5	15	16.00 .630	16.00 .630	18.00 .709	14.00 .551
1-84981-6	16	17.00 .669	17.00 .669	19.00 .748	15.00 .591
1-84981-7	17	18.00 .709	18.00 .709	20.00 .787	16.00 .630
1-84981-8	18	19.00 .748	19.00 .748	21.00 .827	17.00 .669
1-84981-9	19	20.00 .787	20.00 .787	22.00 .866	18.00 .709
2-84981-0	20	21.00 .827	21.00 .827	23.00 .906	19.00 .748
2-84981-1	21	22.00 .866	22.00 .866	24.00 .945	20.00 .787
2-84981-2	22	23.00 .906	23.00 .906	25.00 .984	21.00 .827
2-84981-3	23	24.00 .945	24.00 .945	26.00 1.024	22.00 .866
2-84981-4	24	25.00 .984	25.00 .984	27.00 1.063	23.00 .906
2-84981-5	25	26.00 1.024	26.00 1.024	28.00 1.102	24.00 .945
2-84981-6	26	27.00 1.063	27.00 1.063	29.00 1.142	25.00 .984
2-84981-7	27	28.00 1.102	28.00 1.102	30.00 1.181	26.00 1.024
2-84981-8	28	29.00 1.142	29.00 1.142	31.00 1.221	27.00 1.063
2-84981-9	29	30.00 1.181	30.00 1.181	32.00 1.259	28.00 1.102
3-84981-0	30	31.00 1.221	31.00 1.221	33.00 1.299	29.00 1.142
3-84981-1	31	32.00 1.259	32.00 1.259	34.00 1.338	30.00 1.181
3-84981-2	32	33.00 1.299	33.00 1.299	35.00 1.377	31.00 1.221
3-84981-3	33	34.00 1.338	34.00 1.338	36.00 1.417	32.00 1.259
3-84981-4	34	35.00 1.377	35.00 1.377	37.00 1.456	33.00 1.299
3-84981-5	35	36.00 1.417	36.00 1.417	38.00 1.496	34.00 1.338
3-84981-6	36	37.00 1.456	37.00 1.456	39.00 1.535	35.00 1.377
3-84981-7	37	38.00 1.496	38.00 1.496	40.00 1.574	36.00 1.417
3-84981-8	38	39.00 1.535	39.00 1.535	41.00 1.614	37.00 1.456
3-84981-9	39	40.00 1.574	40.00 1.574	42.00 1.653	38.00 1.496
4-84981-0	40	41.00 1.614	41.00 1.614	43.00 1.692	39.00 1.535

Product Dimensions (Continued)

**1.0 mm, FPC Connector,
Non-ZIF, SMT, Right Angle,
Bottom Contact**

Part Number 1470852
Lead Free 1734798

Material and Finish

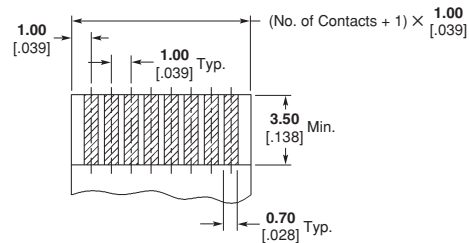
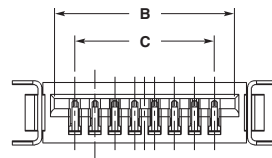
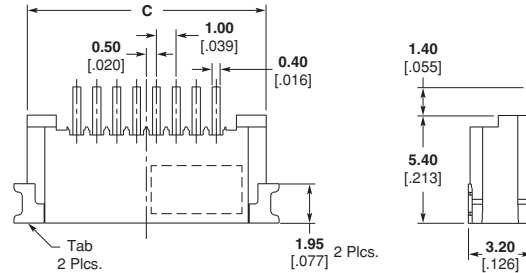
Housing — Thermoplastic, UL 94V-0,
black color

Tab — Brass

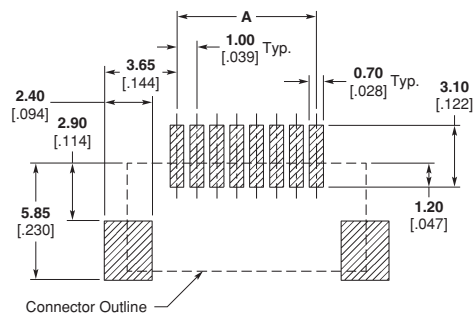
Contact — Phosphor bronze

Technical Documents

Product Specification — 108-57354



Recommended FPC Layout



Recommended PCB Layout

1.0 mm, FPC Connector,
Non-ZIF, SMT, Right Angle,
Bottom Contact

Part Number **1470852**
Lead Free **1734798**

Technical Documents
Product Specification — 108-57354

Product Dimensions (Continued)

Part Number	Position	Dimension		
		A	B	C
1470852-4	4	3.00 .118	5.05 .198	7.00 .276
1470852-5	5	4.00 .157	6.05 .238	8.00 .315
1470852-6	6	5.00 .197	7.05 .277	9.00 .354
1470852-7	7	6.00 .236	8.05 .316	10.00 .394
1470852-8	8	7.00 .276	9.05 .356	11.00 .433
1470852-9	9	8.00 .315	10.05 .395	12.00 .472
1-1470852-0	10	9.00 .354	11.05 .435	13.00 .512
1-1470852-1	11	10.00 .394	12.05 .474	14.00 .551
1-1470852-2	12	11.00 .433	13.05 .513	15.00 .591
1-1470852-3	13	12.00 .472	14.05 .553	16.00 .630
1-1470852-4	14	13.00 .512	15.05 .592	17.00 .669
1-1470852-5	15	14.00 .551	16.05 .631	18.00 .709
1-1470852-6	16	15.00 .591	17.05 .671	19.00 .748
1-1470852-7	17	16.00 .630	18.05 .710	20.00 .787
1-1470852-8	18	17.00 .669	19.05 .750	21.00 .827
1-1470852-9	19	18.00 .709	20.05 .788	22.00 .866
2-1470852-0	20	19.00 .748	21.05 .828	23.00 .906
2-1470852-1	21	20.00 .787	22.05 .857	24.00 .945
2-1470852-2	22	21.00 .827	23.05 .907	25.00 .984
2-1470852-3	23	22.00 .866	24.05 .946	26.00 1.024
2-1470852-4	24	23.00 .906	25.05 .986	27.00 1.063
2-1470852-5	25	24.00 .945	26.05 1.025	28.00 1.102
2-1470852-6	26	25.00 .984	27.05 1.064	29.00 1.142
2-1470852-7	27	26.00 1.024	28.05 1.104	30.00 1.181
2-1470852-8	28	27.00 1.063	29.05 1.143	31.00 1.220
2-1470852-9	29	28.00 1.102	30.05 1.183	32.00 1.259
3-1470852-0	30	29.00 1.142	31.05 1.222	33.00 1.299

Product Dimensions (Continued)

**1.0 mm, FFC Connector,
Through-Hole, Vertical**

Lead Free 84984

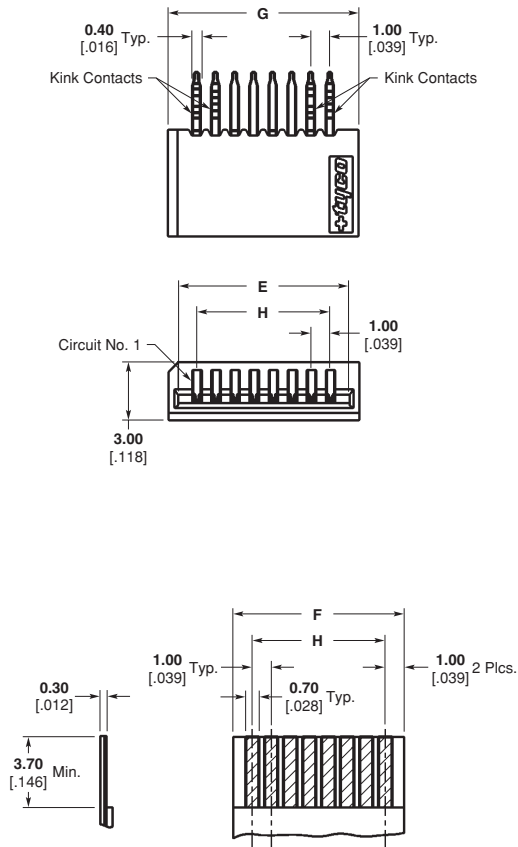
Material and Finish

Housing — Glass filled PBT, white color

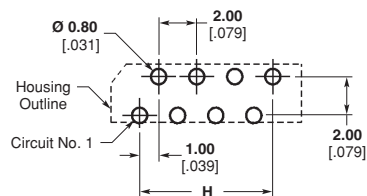
Contact — Phosphor bronze

Technical Documents

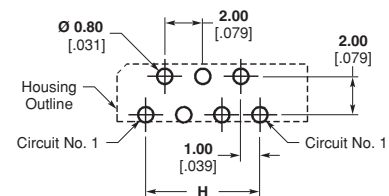
Product Specification — 108-51058



Recommended FPC Layout



**Recommended PCB Layout
1.60 [0.063] Thickness
(For Even Position Connectors)**



**Recommended PCB Layout
1.60 [0.063] Thickness
(For Odd Position Connectors)**

**1.0 mm, FFC Connector,
Through-Hole, Vertical**

Lead Free 84984

Technical Documents
Product Specification — 108-51058

FPC Connector Family

Product Dimensions (Continued)

Part Number	No. of Contacts	Dimension			
		E	F	G	H
84984-4	4	5.00 .197	5.00 .197	6.00 .236	3.00 .118
84984-5	5	6.00 .236	6.00 .236	7.00 .276	4.00 .157
84984-6	6	7.00 .276	7.00 .276	8.00 .315	5.00 .197
84984-7	7	8.00 .315	8.00 .315	9.00 .354	6.00 .236
84984-8	8	9.00 .354	9.00 .354	10.00 .394	7.00 .276
84984-9	9	10.00 .394	10.00 .394	11.00 .433	8.00 .315
1-84984-0	10	11.00 .433	11.00 .433	12.00 .472	9.00 .354
1-84984-1	11	12.00 .472	12.00 .472	13.00 .512	10.00 .394
1-84984-2	12	13.00 .512	13.00 .512	14.00 .551	11.00 .433
1-84984-3	13	14.00 .551	14.00 .551	15.00 .591	12.00 .472
1-84984-4	14	15.00 .591	15.00 .591	16.00 .630	13.00 .512
1-84984-5	15	16.00 .630	16.00 .630	17.00 .669	14.00 .551
1-84984-6	16	17.00 .669	17.00 .669	18.00 .709	15.00 .591
1-84984-7	17	18.00 .709	18.00 .709	19.00 .748	16.00 .630
1-84984-8	18	19.00 .748	19.00 .748	20.00 .787	17.00 .669
1-84984-9	19	20.00 .787	20.00 .787	21.00 .827	18.00 .709
2-84984-0	20	21.00 .827	21.00 .827	22.00 .866	19.00 .748
2-84984-1	21	22.00 .866	22.00 .866	23.00 .906	20.00 .787
2-84984-2	22	23.00 .906	23.00 .906	24.00 .945	21.00 .827
2-84984-3	23	24.00 .945	24.00 .945	25.00 .984	22.00 .866
2-84984-4	24	25.00 .984	25.00 .984	26.00 1.024	23.00 .906
2-84984-5	25	26.00 1.024	26.00 1.024	27.00 1.063	24.00 .945
2-84984-6	26	27.00 1.063	27.00 1.063	28.00 1.102	25.00 .984
2-84984-7	27	28.00 1.102	28.00 1.102	29.00 1.142	26.00 1.024
2-84984-8	28	29.00 1.142	29.00 1.142	30.00 1.181	27.00 1.063
2-84984-9	29	30.00 1.181	30.00 1.181	31.00 1.221	28.00 1.102
3-84984-0	30	31.00 1.221	31.00 1.221	32.00 1.259	29.00 1.142
3-84984-1	31	32.00 1.259	32.00 1.259	33.00 1.299	30.00 1.181
3-84984-2	32	33.00 1.299	33.00 1.299	34.00 1.338	31.00 1.221
3-84984-3	33	34.00 1.338	34.00 1.338	35.00 1.377	32.00 1.259
3-84984-4	34	35.00 1.377	35.00 1.377	36.00 1.417	33.00 1.299
3-84984-5	35	36.00 1.417	36.00 1.417	37.00 1.456	34.00 1.338
3-84984-6	36	37.00 1.456	37.00 1.456	38.00 1.496	35.00 1.377
3-84984-7	37	38.00 1.496	38.00 1.496	39.00 1.535	36.00 1.417
3-84984-8	38	39.00 1.535	39.00 1.535	40.00 1.574	37.00 1.456
3-84984-9	39	40.00 1.574	40.00 1.574	41.00 1.614	38.00 1.496
4-84984-0	40	41.00 1.614	41.00 1.614	42.00 1.653	39.00 1.535

Product Dimensions (Continued)

**1.0 mm, FFC Connector,
Through-Hole, Right Angle**

Lead Free 84983

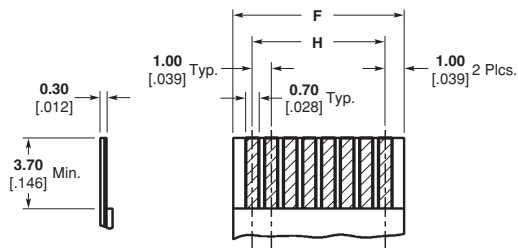
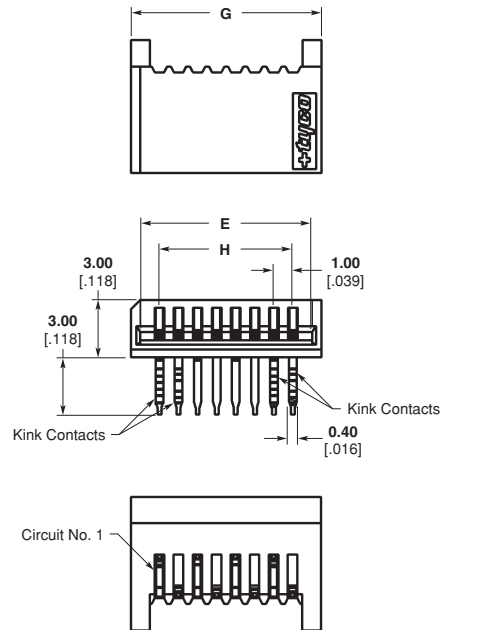
Material and Finish

Housing — Glass filled PBT, white color

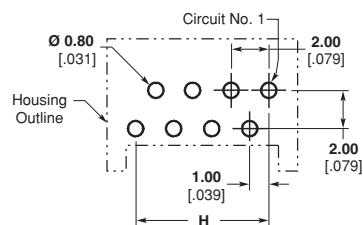
Contact — Phosphor bronze

Technical Documents

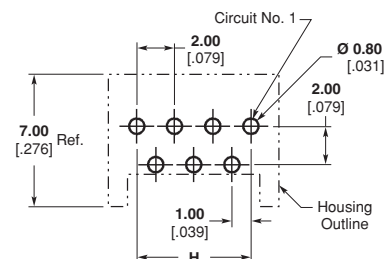
Product Specification — 108-51058



Recommended FPC Layout



**Recommended PCB Layout
1.60 [.063] Thickness
(For Even Position Connectors)**



**Recommended PCB Layout
1.60 [.063] Thickness
(For Odd Position Connectors)**

**1.0 mm, FFC Connector,
Through-Hole, Right Angle,
Top Contact**

Lead Free 84983

Technical Documents
Product Specification — 108-51058

Product Dimensions (Continued)

Part Number	No. of Contacts	Dimension			
		E	F	G	H
84983-4	4	5.00 .197	5.00 .197	6.00 .236	3.00 .118
84983-5	5	6.00 .236	6.00 .236	7.00 .276	4.00 .157
84983-6	6	7.00 .276	7.00 .276	8.00 .315	5.00 .197
84983-7	7	8.00 .315	8.00 .315	9.00 .354	6.00 .236
84983-8	8	9.00 .354	9.00 .354	10.00 .394	7.00 .276
84983-9	9	10.00 .394	10.00 .394	11.00 .433	8.00 .315
1-84983-0	10	11.00 .433	11.00 .433	12.00 .472	9.00 .354
1-84983-1	11	12.00 .472	12.00 .472	13.00 .512	10.00 .394
1-84983-2	12	13.00 .512	13.00 .512	14.00 .551	11.00 .433
1-84983-3	13	14.00 .551	14.00 .551	15.00 .591	12.00 .472
1-84983-4	14	15.00 .591	15.00 .591	16.00 .630	13.00 .512
1-84983-5	15	16.00 .630	16.00 .630	17.00 .669	14.00 .551
1-84983-6	16	17.00 .669	17.00 .669	18.00 .709	15.00 .591
1-84983-7	17	18.00 .709	18.00 .709	19.00 .748	16.00 .630
1-84983-8	18	19.00 .748	19.00 .748	20.00 .787	17.00 .669
1-84983-9	19	20.00 .787	20.00 .787	21.00 .827	18.00 .709
2-84983-0	20	21.00 .827	21.00 .827	22.00 .866	19.00 .748
2-84983-1	21	22.00 .866	22.00 .866	23.00 .906	20.00 .787
2-84983-2	22	23.00 .906	23.00 .906	24.00 .945	21.00 .827
2-84983-3	23	24.00 .945	24.00 .945	25.00 .984	22.00 .866
2-84983-4	24	25.00 .984	25.00 .984	26.00 1.024	23.00 .906
2-84983-5	25	26.00 1.024	26.00 1.024	27.00 1.063	24.00 .945
2-84983-6	26	27.00 1.063	27.00 1.063	28.00 1.102	25.00 .984
2-84983-7	27	28.00 1.102	28.00 1.102	29.00 1.142	26.00 1.024
2-84983-8	28	29.00 1.142	29.00 1.142	30.00 1.181	27.00 1.063
2-84983-9	29	30.00 1.181	30.00 1.181	31.00 1.221	28.00 1.102
3-84983-0	30	31.00 1.221	31.00 1.221	32.00 1.259	29.00 1.142
3-84983-1	31	32.00 1.259	32.00 1.259	33.00 1.299	30.00 1.181
3-84983-2	32	33.00 1.299	33.00 1.299	34.00 1.338	31.00 1.221
3-84983-3	33	34.00 1.338	34.00 1.338	35.00 1.377	32.00 1.259
3-84983-4	34	35.00 1.377	35.00 1.377	36.00 1.417	33.00 1.299
3-84983-5	35	36.00 1.417	36.00 1.417	37.00 1.456	34.00 1.338
3-84983-6	36	37.00 1.456	37.00 1.456	38.00 1.496	35.00 1.377
3-84983-7	37	38.00 1.496	38.00 1.496	39.00 1.535	36.00 1.417
3-84983-8	38	39.00 1.535	39.00 1.535	40.00 1.574	37.00 1.456
3-84983-9	39	40.00 1.574	40.00 1.574	41.00 1.614	38.00 1.496
4-84983-0	40	41.00 1.614	41.00 1.614	42.00 1.653	39.00 1.535

Product Dimensions (Continued)

**1.0 mm, FPC Connector,
Non-ZIF, Right-Angle,
Bottom Contact, Type B**

Part Number	1470790
Lead Free	1734779

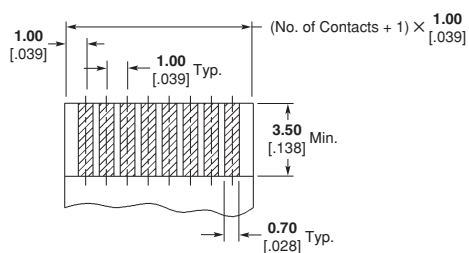
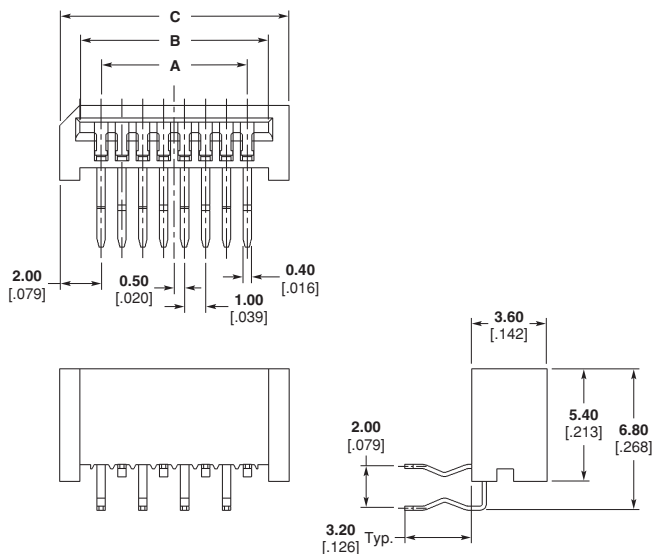
Material and Finish

Housing — Thermoplastic, UL 94V-0, black color

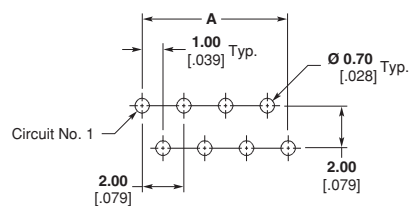
Contacts — Phosphor bronze

Technical Documents

Product Specification — 108-57354



Recommended FPC Layout



Recommended PCB Layout

**1.0 mm, FPC Connector,
Non-ZIF, Right Angle,
Bottom Contact, Type B**

**Part Number 1470790
Lead Free 1734779**

Technical Documents
Product Specification — 108-57354

Product Dimensions (Continued)

Part Number	No. of Contacts	Dimension		
		A	B	C
1470790-4	4	3.00 .118	5.05 .198	7.00 .276
1470790-5	5	4.00 .157	6.05 .238	8.00 .315
1470790-6	6	5.00 .197	7.05 .277	9.00 .354
1470790-7	7	6.00 .236	8.05 .316	10.00 .394
1470790-8	8	7.00 .276	9.05 .356	11.00 .433
1470790-9	9	8.00 .315	10.05 .395	12.00 .472
1-1470790-0	10	9.00 .354	11.05 .435	13.00 .512
1-1470790-1	11	10.00 .394	12.05 .474	14.00 .551
1-1470790-2	12	11.00 .433	13.05 .513	15.00 .591
1-1470790-3	13	12.00 .472	14.05 .553	16.00 .630
1-1470790-4	14	13.00 .512	15.05 .592	17.00 .669
1-1470790-5	15	14.00 .551	16.05 .631	18.00 .709
1-1470790-6	16	15.00 .591	17.05 .671	19.00 .748
1-1470790-7	17	16.00 .630	18.05 .710	20.00 .787
1-1470790-8	18	17.00 .669	19.05 .750	21.00 .827
1-1470790-9	19	18.00 .709	20.05 .788	22.00 .866
2-1470790-0	20	19.00 .748	21.05 .828	23.00 .906
2-1470790-1	21	20.00 .787	22.05 .857	24.00 .945
2-1470790-2	22	21.00 .827	23.05 .907	25.00 .984
2-1470790-3	23	22.00 .866	24.05 .946	26.00 1.024
2-1470790-4	24	23.00 .906	25.05 .986	27.00 1.063
2-1470790-5	25	24.00 .945	26.05 1.025	28.00 1.102
2-1470790-6	26	25.00 .984	27.05 1.064	29.00 1.142
2-1470790-7	27	26.00 1.024	28.05 1.104	30.00 1.181
2-1470790-8	28	27.00 1.063	29.05 1.143	31.00 1.220
2-1470790-9	29	28.00 1.102	30.05 1.183	32.00 1.259
3-1470790-0	30	29.00 1.142	31.05 1.222	33.00 1.299

Product Dimensions (Continued)

1.25 mm, FFC Connector, Vertical

Lead Free 84534

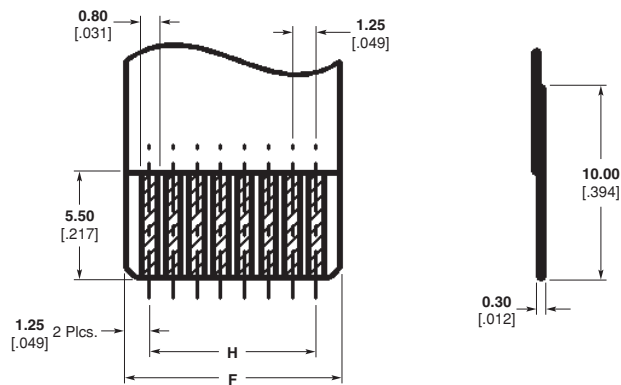
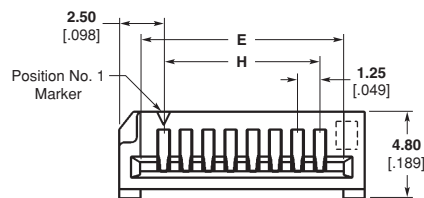
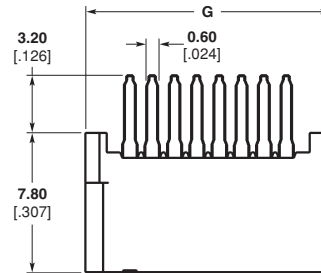
Material and Finish

Housing — Glass filled PBT, white color

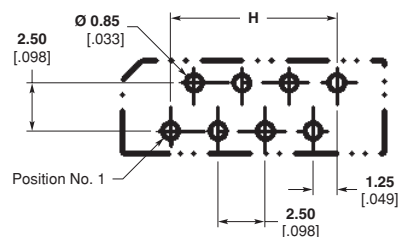
Contact — Phosphor bronze

Technical Documents

Product Specification — 108-51021



Recommended FFC Layout



Recommended PCB Layout

**1.25 mm, FFC Connector,
Vertical**

Lead Free 84534

Technical Documents
Product Specification — 108-51021

FPC Connector Family

Product Dimensions (Continued)

Part Number	No. of Contacts	Dimension			
		E	F	G	H
84534-4	4	6.40 .251	6.25 .246	8.75 .344	3.75 .147
84534-5	5	7.65 .301	7.50 .295	10.00 .393	5.00 .196
84534-6	6	8.90 .350	8.75 .344	11.25 .442	6.25 .246
84534-7	7	10.15 .399	10.00 .393	12.50 .492	7.50 .295
84534-8	8	11.40 .448	11.25 .442	13.75 .541	8.75 .344
84534-9	9	12.65 .498	12.50 .492	15.00 .590	10.00 .393
1-84534-0	10	13.90 .547	13.75 .541	16.25 .639	11.25 .442
1-84534-1	11	15.15 .596	15.00 .590	17.50 .688	12.50 .492
1-84534-2	12	16.40 .645	16.25 .639	18.75 .738	13.75 .541
1-84534-3	13	17.65 .694	17.50 .688	20.00 .787	15.00 .590
1-84534-4	14	18.90 .744	18.75 .738	21.25 .836	16.25 .639
1-84534-5	15	20.15 .793	20.00 .787	22.50 .885	17.50 .688
1-84534-6	16	21.40 .842	21.25 .836	23.75 .935	18.75 .738
1-84534-7	17	22.65 .891	22.50 .885	25.00 .984	20.00 .787
1-84534-8	18	23.90 .940	23.75 .935	26.25 1.033	21.25 .836
1-84534-9	19	25.15 .990	25.00 .984	27.50 1.082	22.50 .885
2-84534-0	20	26.40 1.039	26.25 1.033	28.75 1.131	23.75 .935
2-84534-1	21	27.65 1.088	27.50 1.082	30.00 1.181	25.00 .984
2-84534-2	22	28.90 1.137	28.75 1.131	31.25 1.230	26.25 1.033
2-84534-3	23	30.15 1.187	30.00 1.181	32.50 1.279	27.50 1.082
2-84534-4	24	31.40 1.236	31.25 1.230	33.75 1.328	28.75 1.131
2-84534-5	25	32.65 1.285	32.50 1.279	35.00 1.377	30.00 1.181
2-84534-6	26	33.90 1.334	33.75 1.328	36.25 1.427	31.25 1.230
2-84534-7	27	35.15 1.383	35.00 1.377	37.50 1.476	32.50 1.279
2-84534-8	28	36.40 1.433	36.25 1.427	38.75 1.525	33.75 1.328
2-84534-9	29	37.65 1.482	37.50 1.476	40.00 1.574	35.00 1.377
3-84534-0	30	38.90 1.531	38.75 1.525	41.25 1.624	36.25 1.427
3-84534-1	31	40.15 1.580	40.00 1.574	42.50 1.673	37.50 1.476
3-84534-2	32	41.40 1.629	41.25 1.624	43.75 1.722	38.75 1.525
3-84534-3	33	42.65 1.679	42.50 1.673	45.00 1.771	40.00 1.574
3-84534-4	34	43.90 1.728	43.75 1.722	46.25 1.820	41.25 1.624
3-84534-5	35	45.15 1.777	45.00 1.771	47.50 1.870	42.50 1.673
3-84534-6	36	46.40 1.826	46.25 1.820	48.75 1.919	43.75 1.722
3-84534-7	37	47.65 1.875	47.50 1.870	50.00 1.968	45.00 1.771
3-84534-8	38	48.90 1.925	48.75 1.919	51.25 2.017	46.25 1.820
3-84534-9	39	50.15 1.974	50.00 1.968	52.50 2.066	47.50 1.870
4-84534-0	40	51.40 2.023	51.25 2.017	53.75 2.116	48.75 1.919

Product Dimensions (Continued)

**1.25 mm, FFC Connector,
Right Angle, Top Contact
Non-ZIF**

Lead Free 84533

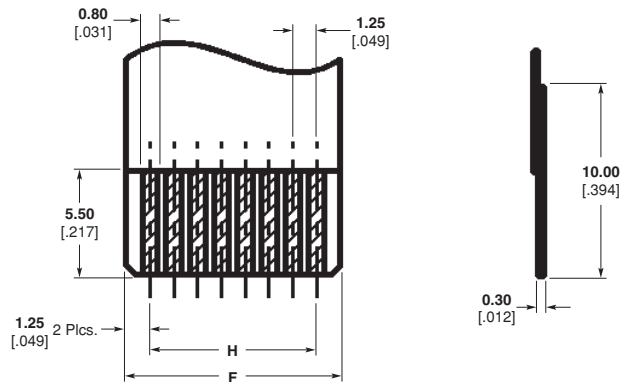
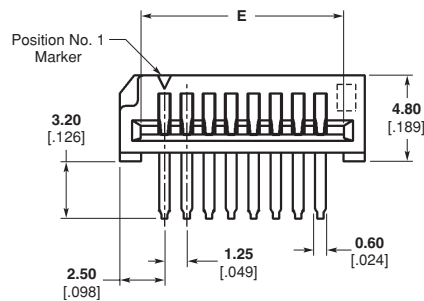
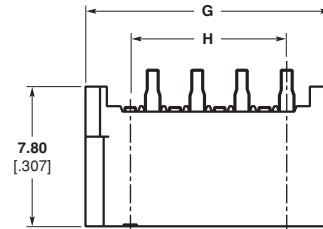
Material and Finish

Housing — Glass filled PBT, white color

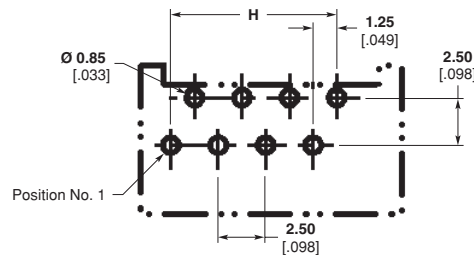
Contact — Post plated tin phosphor bronze

Technical Documents

Product Specification — 108-51021



Recommended FFC Layout



Recommended PCB Layout

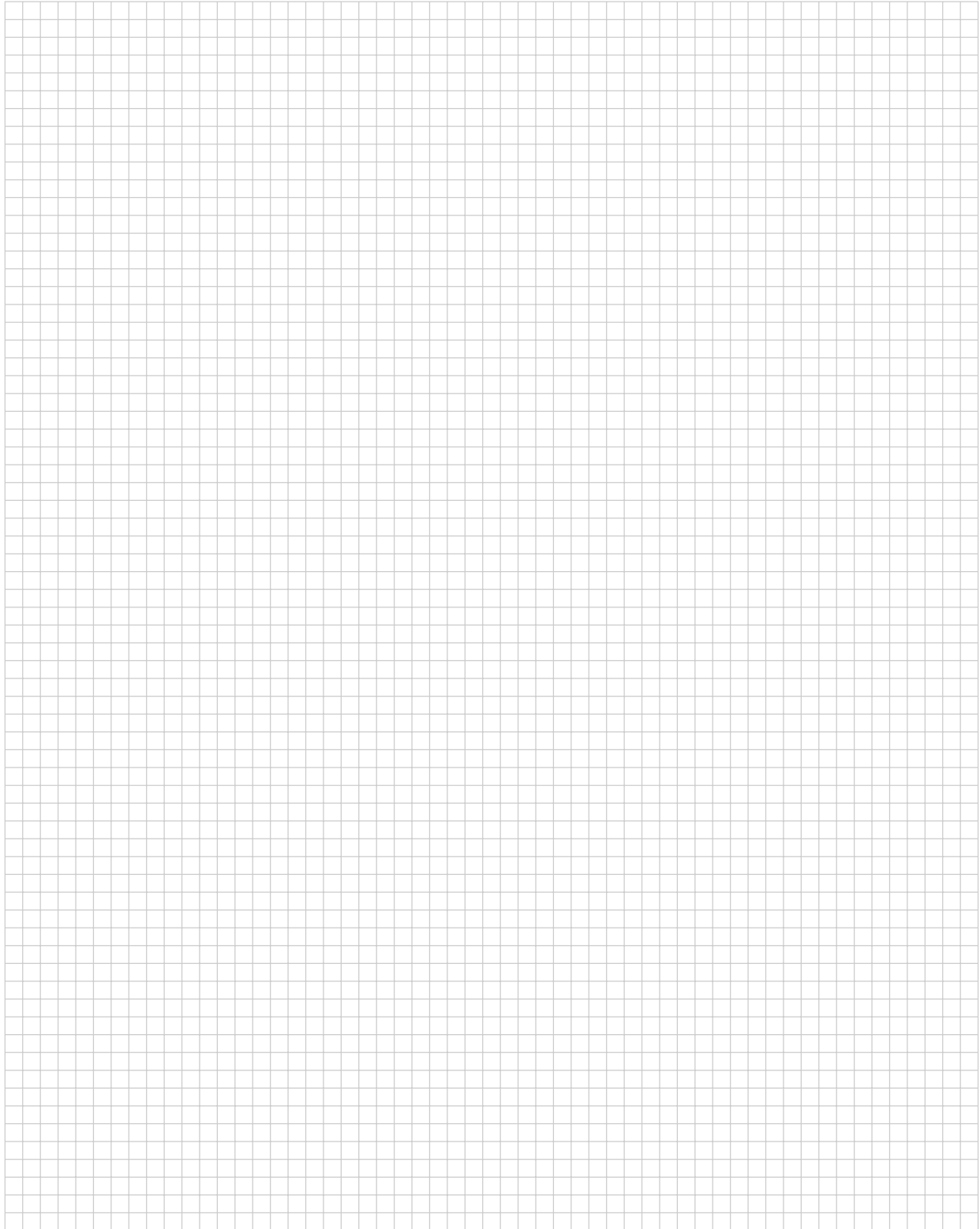
**1.25 mm, FFC Connector,
Right Angle, Top Contact
Non-ZIF**

Lead Free 84533

Technical Documents
Product Specification — 108-51021

Product Dimensions (Continued)

Part Number	No. of Contacts	Dimension			
		E	F	G	H
84533-4	4	6.40 .251	6.25 .246	8.75 .344	3.75 .147
84533-5	5	7.65 .301	7.50 .295	10.00 .393	5.00 .196
84533-6	6	8.90 .350	8.75 .344	11.25 .442	6.25 .246
84533-7	7	10.15 .399	10.00 .393	12.50 .492	7.50 .295
84533-8	8	11.40 .448	11.25 .442	13.75 .541	8.75 .344
84533-9	9	12.65 .498	12.50 .492	15.00 .590	10.00 .393
1-84533-0	10	13.90 .547	13.75 .541	16.25 .639	11.25 .442
1-84533-1	11	15.15 .596	15.00 .590	17.50 .688	12.50 .492
1-84533-2	12	16.40 .645	16.25 .639	18.75 .738	13.75 .541
1-84533-3	13	17.65 .694	17.50 .688	20.00 .787	15.00 .590
1-84533-4	14	18.90 .744	18.75 .738	21.25 .836	16.25 .639
1-84533-5	15	20.15 .793	20.00 .787	22.50 .885	17.50 .688
1-84533-6	16	21.40 .842	21.25 .836	23.75 .935	18.75 .738
1-84533-7	17	22.65 .891	22.50 .885	25.00 .984	20.00 .787
1-84533-8	18	23.90 .940	23.75 .935	26.25 1.033	21.25 .836
1-84533-9	19	25.15 .990	25.00 .984	27.50 1.082	22.50 .885
2-84533-0	20	26.40 1.039	26.25 1.033	28.75 1.131	23.75 .935
2-84533-1	21	27.65 1.088	27.50 1.082	30.00 1.181	25.00 .984
2-84533-2	22	28.90 1.137	28.75 1.131	31.25 1.230	26.25 1.033
2-84533-3	23	30.15 1.187	30.00 1.181	32.50 1.279	27.50 1.082
2-84533-4	24	31.40 1.236	31.25 1.230	33.75 1.328	28.75 1.131
2-84533-5	25	32.65 1.285	32.50 1.279	35.00 1.377	30.00 1.181
2-84533-6	26	33.90 1.334	33.75 1.328	36.25 1.427	31.25 1.230
2-84533-7	27	35.15 1.383	35.00 1.377	37.50 1.476	32.50 1.279
2-84533-8	28	36.40 1.433	36.25 1.427	38.75 1.525	33.75 1.328
2-84533-9	29	37.65 1.482	37.50 1.476	40.00 1.574	35.00 1.377
3-84533-0	30	38.90 1.531	38.75 1.525	41.25 1.624	36.25 1.427
3-84533-1	31	40.15 1.580	40.00 1.574	42.50 1.673	37.50 1.476
3-84533-2	32	41.40 1.629	41.25 1.624	43.75 1.722	38.75 1.525
3-84533-3	33	42.65 1.679	42.50 1.673	45.00 1.771	40.00 1.574
3-84533-4	34	43.90 1.728	43.75 1.722	46.25 1.820	41.25 1.624
3-84533-5	35	45.15 1.777	45.00 1.771	47.50 1.870	42.50 1.673
3-84533-6	36	46.40 1.826	46.25 1.820	48.75 1.919	43.75 1.722
3-84533-7	37	47.65 1.875	47.50 1.870	50.00 1.968	45.00 1.771
3-84533-8	38	48.90 1.925	48.75 1.919	51.25 2.017	46.25 1.820
3-84533-9	39	50.15 1.974	50.00 1.968	52.50 2.066	47.50 1.870
4-84533-0	40	51.40 2.023	51.25 2.017	53.75 2.116	48.75 1.919



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