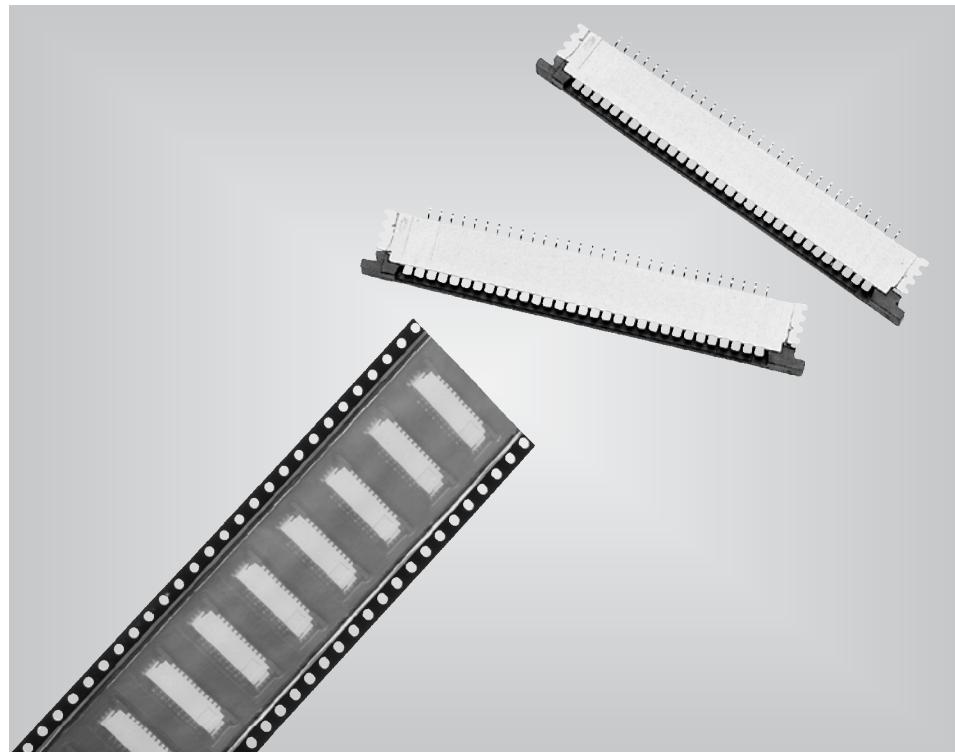


1.00 [.039] FPC (Flexible Printed Circuit) Connectors**Product Facts**

- High-density packaging
- Low-profile design
- Available in 4 thru 30 positions
- Choice of top or bottom contact styles
- Surface mount application
- Zero insertion force
- Durability—
30 cycles
- Convenient embossed tape
packaging

Technical Documents:**Product Specifications:**

108-5369—0.5 [.020] FPC Connector
108-1393—1.0 [.039] FPC Connector



As the demands for higher-density packaging of electronic equipment increases, the use of flexible printed circuits (FPC) to reduce size, weight and assembly costs has expanded. FPC is finding wide acceptance in the computer industry, particularly in such applications as Lap Top, Notebook, Palm Top and Note Pad Computers. Other markets include: Disk Drives, Printers, Plotters, Copiers, Cellular Phones, and Medical Equipment.

AMP FPC connectors have been developed to meet the challenges of this expanding market. Available in 1.0 [.039] centerline spacing, they incorporate all the most wanted features: low profile, light-weight, AMP quality and economy, plus convenient embossed tape packaging.

FPC Connectors are available in 4 through 30 positions. A choice of top or bottom contact styles is provided. Contacts are phosphor bronze, tin-lead plated on the mating and solder tail end, and are highly durable.

1.0 [.039] FPC Connectors

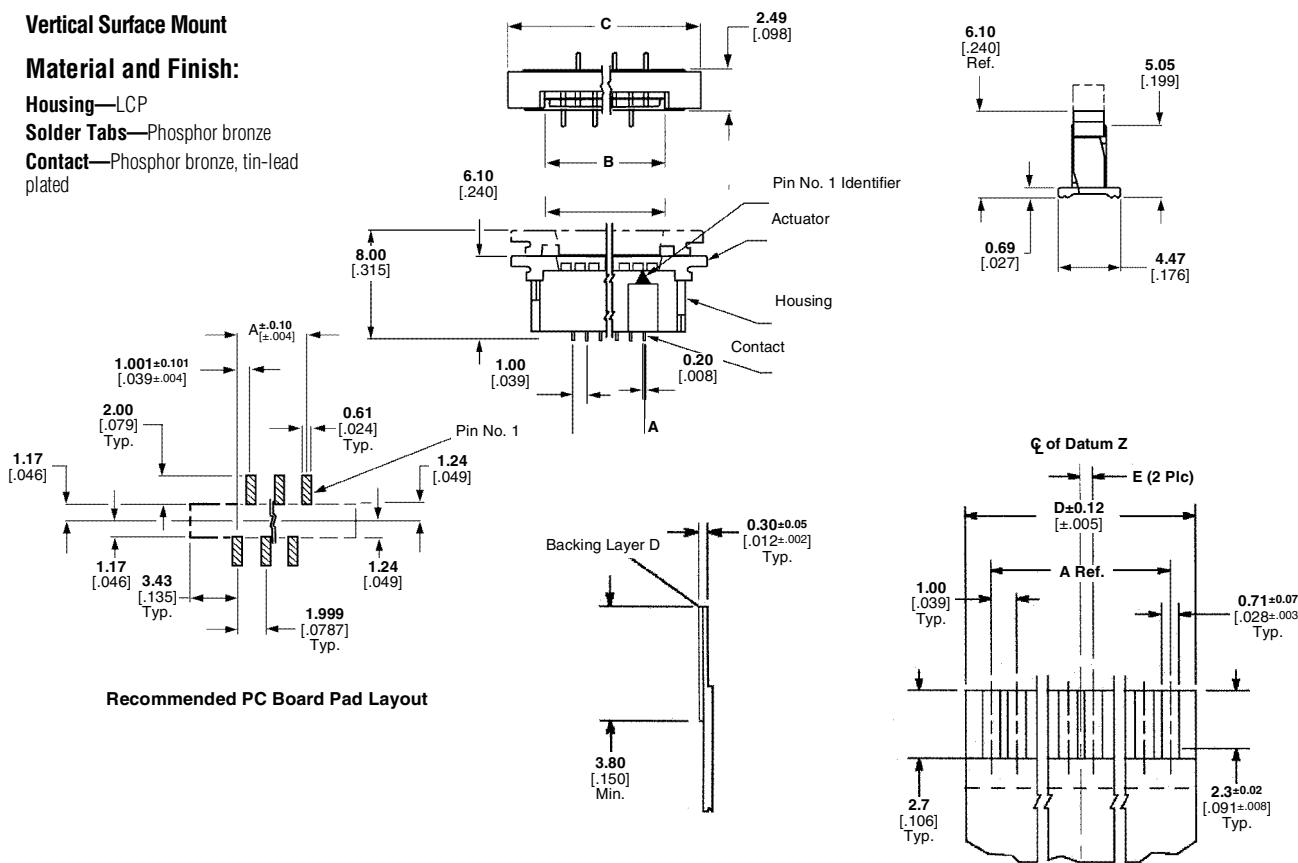
Vertical Surface Mount

Material and Finish:

Housing—LCP

Solder Tabs—Phosphor bronze

Contact—Phosphor bronze, tin-lead plated



No. of Positions	Dimensions					Part Numbers
	A	B	C	D	E	
4	3.00 .118	5.30 .209	11.91 .469	5.00 .197	0.50 .020	487953-4
5	4.00 .157	6.30 .249	12.93 .509	6.00 .236	—	487953-5
6	5.00 .197	7.30 .288	13.92 .548	7.00 .276	0.50 .020	487953-6
7	6.00 .236	8.30 .327	14.91 .587	8.00 .315	—	487953-7
8	7.00 .276	9.30 .367	15.93 .627	9.00 .354	0.50 .020	487953-8
9	8.00 .315	10.30 .406	16.92 .666	10.00 .394	—	487953-9
10	9.00 .354	11.30 .445	17.91 .705	11.00 .433	0.50 .020	1-487953-0
11	10.00 .394	12.30 .485	18.92 .745	12.00 .472	—	1-487953-1
12	11.00 .433	13.30 .525	19.91 .784	13.00 .512	0.50 .020	1-487953-2
13	12.00 .472	14.30 .564	20.93 .824	14.00 .551	—	1-487953-3
14	13.00 .512	15.30 .603	21.92 .863	15.00 .591	0.50 .020	1-487953-4
15	14.00 .551	16.30 .642	22.91 .902	16.00 .630	—	1-487953-5
16	15.00 .591	17.30 .682	23.93 .942	17.00 .669	0.50 .020	1-487953-6
17	16.00 .630	18.30 .721	24.92 .981	18.00 .709	—	1-487953-7

No. of Positions	Dimensions					Part Numbers
	A	B	C	D	E	
18	17.00 .669	19.30 .760	25.91 1.020	19.00 .748	0.50 .020	1-487953-8
19	18.00 .709	20.30 .800	26.92 1.060	20.00 .787	—	1-487953-9
20	19.00 .748	21.30 .839	27.91 1.099	21.00 .827	0.50 .020	2-487953-0
21	20.00 .787	22.30 .879	28.93 1.139	22.00 .866	—	2-487953-1
22	21.00 .827	23.30 .918	29.92 1.179	23.00 .906	0.50 .020	2-487953-2
23	22.00 .866	24.30 .957	30.91 1.217	24.00 .945	—	2-487953-3
24	23.00 .906	25.30 .997	31.93 1.257	25.00 .984	0.50 .020	2-487953-4
25	24.00 .945	26.30 1.036	32.92 1.296	26.00 1.024	—	2-487953-5
26	25.00 .984	27.30 1.075	33.91 1.335	27.00 1.063	0.50 .020	2-487953-6
27	26.00 1.024	28.30 1.115	34.92 1.375	28.00 1.102	—	2-487953-7
28	27.00 1.063	29.30 1.154	35.92 1.414	29.00 1.142	0.50 .020	2-487953-8
29	28.00 1.102	30.30 1.194	36.93 1.454	30.00 1.181	—	2-487953-9
30	29.00 1.142	31.30 1.233	37.92 1.493	31.00 1.221	0.50 .020	3-487953-0

1.0 [.039] FPC Connectors

Top Contact Type

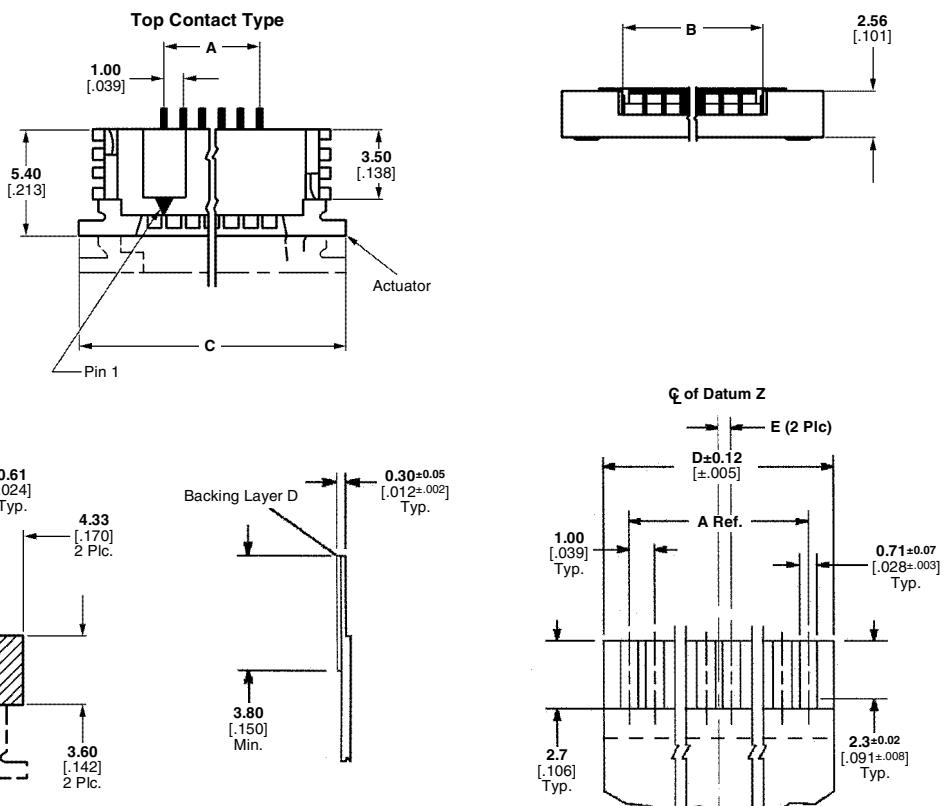
Material and Finish:

Housing—Thermoplastic, 94V-0 rated, beige

Slider—Thermoplastic, 94V-0 rated, black

Contact Finish—Phosphor bronze, plated 0.0038 [.000150] min. tin-lead

Solder Tabs—Phosphor bronze, plated 0.00127 [.000050] min. tin-lead



Recommended PC Board Pad Pattern

No. of Positions	Dimensions					Part Numbers
	A	B	C	D	E	
4	3.00 .118	5.30 .209	11.91 .469	5.00 .197	0.50 .020	487951-4
5	4.00 .157	6.30 .249	12.93 .509	6.00 .236	—	487951-5
6	5.00 .197	7.30 .288	13.92 .548	7.00 .276	0.50 .020	487951-6
7	6.00 .236	8.30 .327	14.91 .587	8.00 .315	—	487951-7
8	7.00 .276	9.30 .367	15.93 .627	9.00 .354	0.50 .020	487951-8
9	8.00 .315	10.30 .406	16.92 .666	10.00 .394	—	487951-9
10	9.00 .354	11.30 .445	17.91 .705	11.00 .433	0.50 .020	1-487951-0
11	10.00 .394	12.30 .485	18.92 .745	12.00 .472	—	1-487951-1
12	11.00 .433	13.30 .525	19.91 .784	13.00 .512	0.50 .020	1-487951-2
13	12.00 .472	14.30 .564	20.93 .824	14.00 .551	—	1-487951-3
14	13.00 .512	15.30 .603	21.92 .863	15.00 .591	0.50 .020	1-487951-4
15	14.00 .551	16.30 .642	22.91 .902	16.00 .630	—	1-487951-5
16	15.00 .591	17.30 .682	23.93 .942	17.00 .669	0.50 .020	1-487951-6
17	16.00 .630	18.30 .721	24.92 .981	18.00 .709	—	1-487951-7

No. of Positions	Dimensions					Part Numbers
	A	B	C	D	E	
18	17.00 .669	19.30 .760	25.91 1.020	19.00 .748	0.50 .020	1-487951-8
19	18.00 .709	20.30 .800	26.92 1.060	20.00 .787	—	1-487951-9
20	19.00 .748	21.30 .839	27.91 1.099	21.00 .827	0.50 .020	2-487951-0
21	20.00 .787	22.30 .879	28.93 1.139	22.00 .866	—	2-487951-1
22	21.00 .827	23.30 .918	29.92 1.179	23.00 .906	0.50 .020	2-487951-2
23	22.00 .866	24.30 .957	30.91 1.217	24.00 .945	—	2-487951-3
24	23.00 .906	25.30 .997	31.93 1.257	25.00 .984	0.50 .020	2-487951-4
25	24.00 .945	26.30 1.036	32.92 1.296	26.00 1.024	—	2-487951-5
26	25.00 .984	27.30 1.075	33.91 1.335	27.00 1.063	0.50 .020	2-487951-6
27	26.00 1.024	28.30 1.115	34.92 1.375	28.00 1.102	—	2-487951-7
28	27.00 1.063	29.30 1.154	35.92 1.414	29.00 1.142	0.50 .020	2-487951-8
29	28.00 1.102	30.30 1.194	36.93 1.454	30.00 1.181	—	2-487951-9
30	29.00 1.142	31.30 1.233	37.92 1.493	31.00 1.221	0.50 .020	3-487951-0

1.0 [.039] FPC Connectors

Bottom Contact Type

Material and Finish:

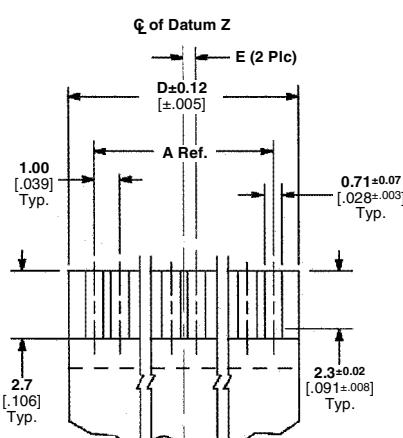
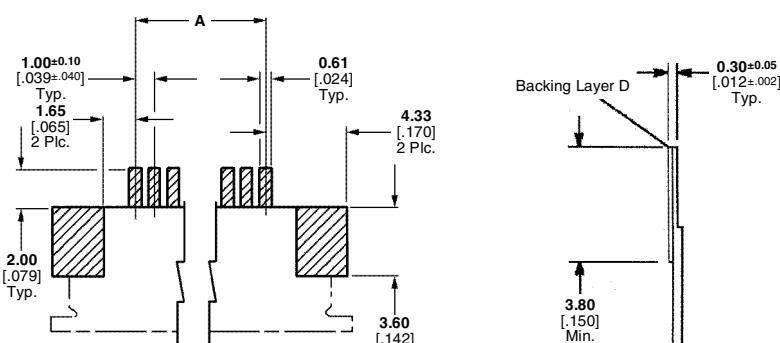
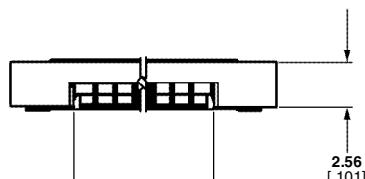
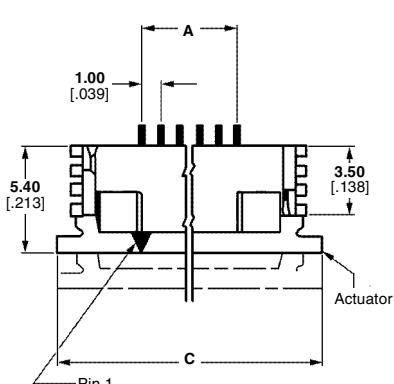
Housing—Thermoplastic, 94V-0 rated, beige

Slider—Thermoplastic, 94V-0 rated, black

Contact Finish—Phosphor bronze, plated 0.0038 [.000150] min. tin-lead

Solder Tabs—Phosphor bronze, plated 0.00127 [.000050] min. tin-lead

Bottom Contact Type



Recommended PC Board Pad Pattern

No. of Positions	Dimensions					Part Numbers
	A	B	C	D	E	
4	3.00 .118	5.30 .209	11.91 .469	5.00 .197	0.50 .020	487952-4
5	4.00 .157	6.30 .249	12.93 .509	6.00 .236	—	487952-5
6	5.00 .197	7.30 .288	13.92 .548	7.00 .276	0.50 .020	487952-6
7	6.00 .236	8.30 .327	14.91 .587	8.00 .315	—	487952-7
8	7.00 .276	9.30 .367	15.93 .627	9.00 .354	0.50 .020	487952-8
9	8.00 .315	10.30 .406	16.92 .666	10.00 .394	—	487952-9
10	9.00 .354	11.30 .445	17.91 .705	11.00 .433	0.50 .020	1-487952-0
11	10.00 .394	12.30 .485	18.92 .745	12.00 .472	—	1-487952-1
12	11.00 .433	13.30 .525	19.91 .784	13.00 .512	0.50 .020	1-487952-2
13	12.00 .472	14.30 .564	20.93 .824	14.00 .551	—	1-487952-3
14	13.00 .512	15.30 .603	21.92 .863	15.00 .591	0.50 .020	1-487952-4
15	14.00 .551	16.30 .642	22.91 .902	16.00 .630	—	1-487952-5
16	15.00 .591	17.30 .682	23.93 .942	17.00 .669	0.50 .020	1-487952-6
17	16.00 .630	18.30 .721	24.92 .981	18.00 .709	—	1-487952-7

No. of Positions	Dimensions					Part Numbers
	A	B	C	D	E	
18	17.00 .669	19.30 .760	25.91 1.020	19.00 .748	0.50 .020	1-487952-8
19	18.00 .709	20.30 .800	26.92 1.060	20.00 .787	—	1-487952-9
20	19.00 .748	21.30 .839	27.91 1.099	21.00 .827	0.50 .020	2-487952-0
21	20.00 .787	22.30 .879	28.93 1.139	22.00 .866	—	2-487952-1
22	21.00 .827	23.30 .918	29.92 1.179	23.00 .906	0.50 .020	2-487952-2
23	22.00 .866	24.30 .957	30.91 1.217	24.00 .945	—	2-487952-3
24	23.00 .906	25.30 .997	31.93 1.257	25.00 .984	0.50 .020	2-487952-4
25	24.00 .945	26.30 1.036	32.92 1.296	26.00 1.024	—	2-487952-5
26	25.00 .984	27.30 1.075	33.91 1.335	27.00 1.063	0.50 .020	2-487952-6
27	26.00 1.024	28.30 1.115	34.92 1.375	28.00 1.102	—	2-487952-7
28	27.00 1.063	29.30 1.154	35.92 1.414	29.00 1.142	0.50 .020	2-487952-8
29	28.00 1.102	30.30 1.194	36.93 1.454	30.00 1.181	—	2-487952-9
30	29.00 1.142	31.30 1.233	37.92 1.493	31.00 1.221	0.50 .020	3-487952-0