

Micro MATE-N-LOK 3 mm Connector System (Continued)

Vertical Header Assemblies

Single Row, Through-Hole, with Retention Feature on Solder Tail and Polarization Feature to PCB

Material and Finish

Housing — High Temperature Nylon, Black

Flammability Rating — UL 94V-0

Contacts — Brass

Plating A — .000100 [0.00254] min. tin over .000050 [0.00127] min. nickel

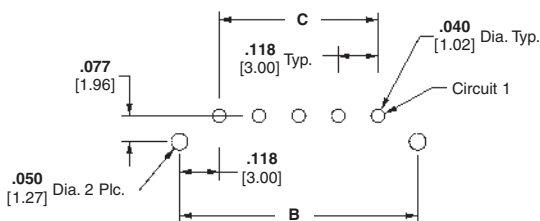
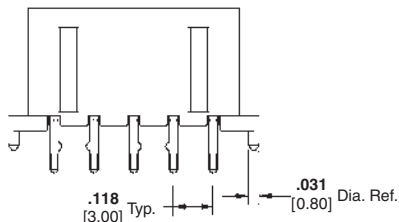
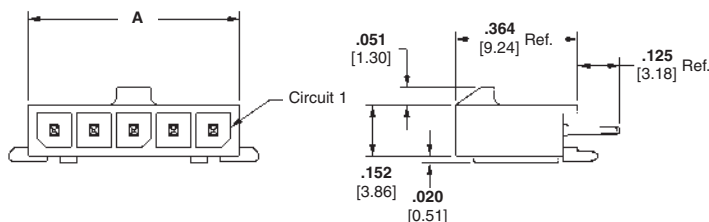
Plating B — .000015 [0.00038] gold in mating area, .000100 [0.00254] min. tin in solder area, with entire contact underplated .000050 [0.00127] min. nickel

Plating C — .000030 [0.00076] gold in mating area, .000100 [0.00254] min. tin in solder area, with entire contact underplated .000050 [0.00127] min. nickel

Related Product Data

Mateable Housings:

Single Row Receptacle Housings—
page 23



Recommended PC Board Layout*

Number of Circuits	Dimensions			Header Part Numbers			Mates with Receptacle Housing Part Number
	A	B	C	Plating A	Plating B	Plating C	
2	.276 7.00	.360 9.14	.118 3.00	2-1445050-2	2-1445084-2	2-1445093-2	1445022-2
3	.394 10.00	.478 12.14	.236 6.00	2-1445050-3	2-1445084-3	2-1445093-3	1445022-3
4	.512 13.00	.596 15.14	.354 9.00	2-1445050-4	2-1445084-4	2-1445093-4	1445022-4
5	.630 16.00	.714 18.14	.472 12.00	2-1445050-5	2-1445084-5	2-1445093-5	1445022-5
6	.748 19.00	.832 21.14	.591 15.00	2-1445050-6	2-1445084-6	2-1445093-6	1445022-6
7	.866 22.00	.950 24.14	.709 18.00	2-1445050-7	2-1445084-7	2-1445093-7	1445022-7
8	.984 25.00	1.069 27.14	.827 21.00	2-1445050-8	2-1445084-8	2-1445093-8	1445022-8
9	1.102 28.00	1.187 30.14	.945 24.00	2-1445050-9	2-1445084-9	3-1445093-9	1445022-9
10	1.220 31.00	1.304 33.14	1.063 27.00	3-1445050-0	3-1445084-0	3-1445093-0	1-1445022-0
11	1.339 34.00	1.423 36.14	1.181 30.00	3-1445050-1	3-1445084-1	3-1445093-1	1-1445022-1
12	1.457 37.00	1.541 39.14	1.299 33.00	3-1445050-2	3-1445084-2	3-1445093-2	1-1445022-2

*Recommended PC Board thickness .062 [1.57]. Always consult customer drawing for PC Board layout dimensions.

Note: All part numbers are RoHS Compliant.

Micro MATE-N-LOK 3 mm Connector System (Continued)

Vertical Header Assemblies

(Continued)

Single Row, Through-Hole, with Metal Through-Hole Hold-down

Material and Finish

Housing — High Temperature Nylon,
Black

Flammability Rating — UL 94V-0

Contacts — Brass

Plating A — .000100 [0.00254] min. tin
over .000050 [0.00127] min. nickel

Plating B — .000015 [0.00038] gold in
mating area, .000100 [0.00254] min. tin
in solder area, with entire contact
underplated .000050 [0.00127] min.
nickel

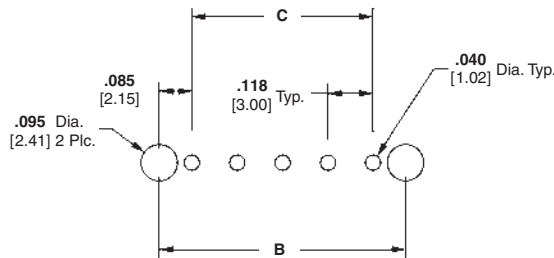
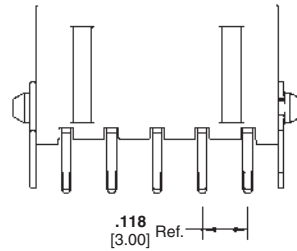
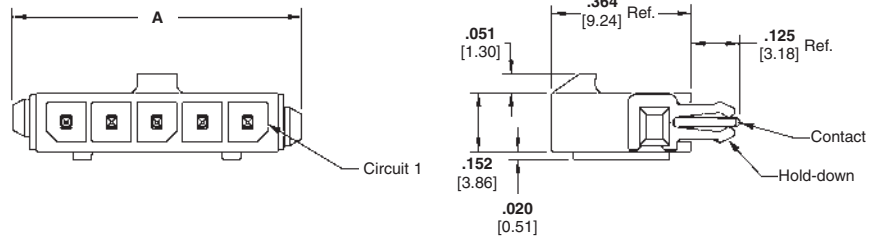
Plating C — .000030 [0.00076] gold in
mating area, .000100 [0.00254] min. tin
in solder area, with entire contact
underplated .000050 [0.00127] min.
nickel

Hold-downs — Phosphor Bronze,
.000100 [0.00254] min. tin over
.000050 [0.00127] min. nickel

Related Product Data

Mateable Housings:

Single Row Receptacle Housing —
page 23



Recommended PC Board Layout*

Number of Circuits	Dimensions			Header Part Numbers			Mates with Receptacle Housing Part Number
	A	B	C	Plating A	Plating B	Plating C	
2	.399 10.14	.293 7.43	.118 3.00	2-1445051-2	2-1445085-2	2-1445094-2	1445022-2
3	.517 13.14	.411 10.43	.236 6.00	2-1445051-3	2-1445085-3	2-1445094-3	1445022-3
4	.635 16.14	.529 13.43	.354 9.00	2-1445051-4	2-1445085-4	2-1445094-4	1445022-4
5	.754 19.14	.647 16.43	.472 12.00	2-1445051-5	2-1445085-5	2-1445094-5	1445022-5
6	.871 22.14	.765 19.43	.591 15.00	2-1445051-6	2-1445085-6	2-1445094-6	1445022-6
7	.990 25.14	.883 22.43	.709 18.00	2-1445051-7	2-1445085-7	2-1445094-7	1445022-7
8	1.108 28.14	1.001 25.43	.827 21.00	2-1445051-8	2-1445085-8	2-1445094-8	1445022-8
9	1.226 31.14	1.119 28.43	.945 24.00	2-1445051-9	2-1445085-9	2-1445094-9	1445022-9
10	1.344 34.14	1.237 31.43	1.063 27.00	3-1445051-0	3-1445085-0	3-1445094-0	1-1445022-0
11	1.462 37.14	1.356 34.43	1.181 30.00	3-1445051-1	3-1445085-1	3-1445094-1	1-1445022-1
12	1.580 40.14	1.474 37.43	1.299 33.00	3-1445051-2	3-1445085-2	3-1445094-2	1-1445022-2

*Recommended PC Board thickness .062 [1.57]. Always consult customer drawing for PC Board layout dimensions.

Note: All part numbers are RoHS Compliant.

Micro MATE-N-LOK 3 mm Connector System (Continued)

Vertical Header Assemblies

(Continued)

**Single Row, Surface Mount,
with Metal Through-Hole
Hold-down**

Material and Finish

Housing — High Temperature Nylon,
Black

Flammability Rating — UL 94V-0

Contacts — Brass

Plating A — .000100 [0.00254] min. tin
over .000050 [0.00127] min. nickel

Plating B — .000015 [0.00038] gold in
mating area, .000100 [0.00254] min. tin
in solder area, with entire contact
underplated .000050 [0.00127] min.
nickel

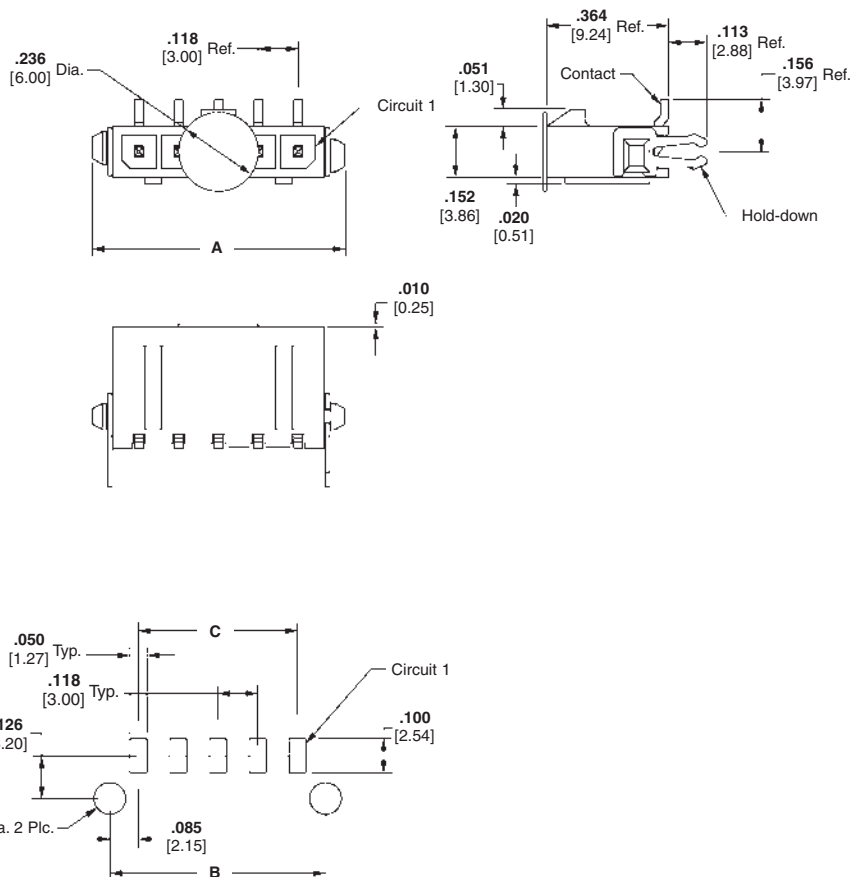
Plating C — .000030 [0.00076] gold in
mating area, .000100 [0.00254] min. tin
in solder area, with entire contact
underplated .000050 [0.00127] min.
nickel

Hold-downs — Phosphor Bronze,
.000100 [0.00254] min. tin over
.000050 [0.00127] min. nickel

Related Product Data

Mateable Housings:

Single Row Receptacle Housing —
page 23



Recommended PC Board Layout*

Number of Circuits	Dimensions			Header Part Numbers			Mates with Receptacle Housing Part Number
	A	B	C	Plating A	Plating B	Plating C	
2	.394 10.00	.293 7.43	.118 3.00	2-1445052-2	2-1445086-2	2-1445095-2	1445022-2
3	.512 13.00	.411 10.43	.236 6.00	2-1445052-3	2-1445086-3	2-1445095-3	1445022-3
4	.630 16.00	.529 13.43	.354 9.00	2-1445052-4	2-1445086-4	2-1445095-4	1445022-4
5	.748 19.00	.647 16.43	.472 12.00	2-1445052-5	2-1445086-5	2-1445095-5	1445022-5
6	.866 22.00	.765 19.43	.591 15.00	2-1445052-6	2-1445086-6	2-1445095-6	1445022-6
7	.984 25.00	.883 22.43	.709 18.00	2-1445052-7	2-1445086-7	2-1445095-7	1445022-7
8	1.102 28.00	1.001 25.43	.827 21.00	2-1445052-8	2-1445086-8	2-1445095-8	1445022-8
9	1.220 31.00	1.119 28.43	.945 24.00	2-1445052-9	2-1445086-9	2-1445095-9	1445022-9
10	1.339 34.00	1.237 31.43	1.063 27.00	3-1445052-0	3-1445086-0	3-1445095-0	1-1445022-0
11	1.457 37.00	1.356 34.43	1.181 30.00	3-1445052-1	3-1445086-1	3-1445095-1	1-1445022-1
12	1.575 40.00	1.474 37.43	1.299 33.00	3-1445052-2	3-1445086-2	3-1445095-2	1-1445022-2

*Recommended PC Board thickness .062 [1.57]. Always consult customer drawing for PC Board layout dimensions.

Note: All part numbers are RoHS Compliant.

Micro MATE-N-LOK 3 mm Connector System (Continued)

Vertical Header Assemblies

(Continued)

Single Row, Surface Mount, with Surface Mount Hold-down

Material and Finish

Housing—High Temperature Nylon,
Black

Flammability Rating—UL 94V-0

Contacts—Brass

Plating A—.000100 [0.00254] min. tin
over .000050 [0.00127] min. nickel

Plating B—.000015 [0.00038] gold in
mating area, .000100 [0.00254] min. tin
in solder area, with entire contact
underplated .000050 [0.00127] min.
nickel

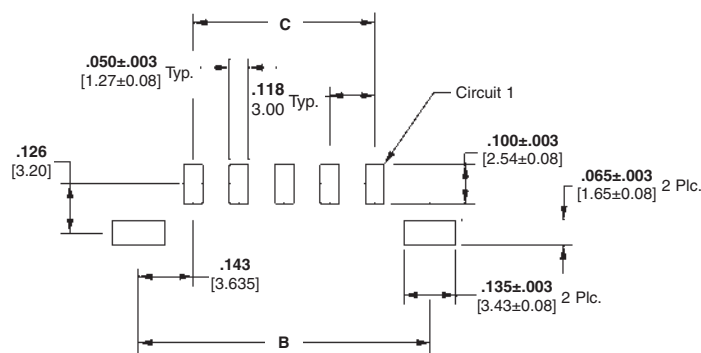
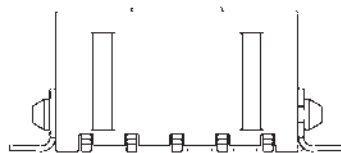
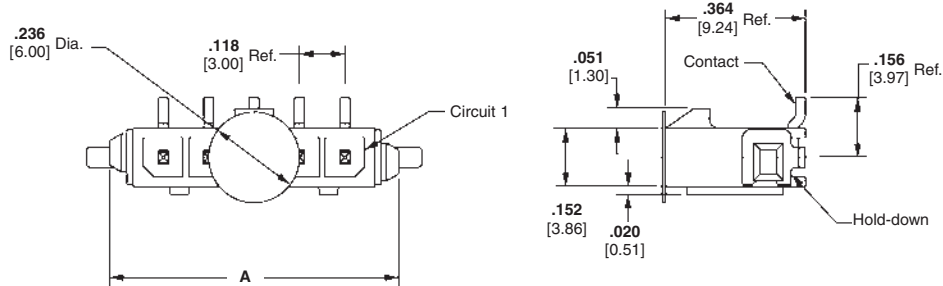
Plating C—.000030 [0.00076] gold in
mating area, .000100 [0.00254] min. tin
in solder area, with entire contact
underplated .000050 [0.00127] min.
nickel

Hold-downs—Phosphor Bronze,
.000100 [0.00254] min. tin over
.000050 [0.00127] min. nickel

Related Product Data

Mateable Housings:

Single Row Receptacle Housing—
page 23



Recommended PC Board Layout*

Number of Circuits	Dimensions			Header Part Numbers			Mates with Receptacle Housing Part Number
	A	B	C	Plating A	Plating B	Plating C	
2	.394 10.00	.410 10.41	.118 3.00	2-1445053-2	2-1445087-2	2-1445096-2	1445022-2
3	.512 13.00	.528 13.41	.236 6.00	2-1445053-3	2-1445087-3	2-1445096-3	1445022-3
4	.630 16.00	.646 16.41	.354 9.00	2-1445053-4	2-1445087-4	2-1445096-4	1445022-4
5	.748 19.00	.765 19.41	.472 12.00	2-1445053-5	2-1445087-5	2-1445096-5	1445022-5
6	.866 22.00	.882 22.41	.591 15.00	2-1445053-6	2-1445087-6	2-1445096-6	1445022-6
7	.984 25.00	1.001 25.41	.709 18.00	2-1445053-7	2-1445087-7	2-1445096-7	1445022-7
8	1.102 28.00	1.119 28.41	.827 21.00	2-1445053-8	2-1445087-8	2-1445096-8	1445022-8
9	1.220 31.00	1.237 31.41	.945 24.00	2-1445053-9	2-1445087-9	2-1445096-9	1445022-9
10	1.339 34.00	1.355 34.41	1.063 27.00	3-1445053-0	3-1445087-0	3-1445096-0	1-1445022-0
11	1.457 37.00	1.473 37.41	1.181 30.00	3-1445053-1	3-1445087-1	3-1445096-1	1-1445022-1
12	1.575 40.00	1.591 40.41	1.299 33.00	3-1445053-2	3-1445087-2	3-1445096-2	1-1445022-2

*Always consult customer drawing for PC Board layout dimensions.

Note: All part numbers are RoHS Compliant.

Micro MATE-N-LOK 3 mm Connector System (Continued)

Vertical Header Assemblies

(Continued)

**Dual Row, Through-Hole,
with Retention Feature
on Solder Tail**

Material and Finish

Housing — High Temperature Nylon,
Black

Flammability Rating — UL 94V-0

Contacts—Brass

Plating A—.000100 [0.00254] min. tin
over .000050 [0.00127] min. nickel

Plating B—.000015 [0.00038] gold in
mating area, .000100 [0.00254] min. tin
in solder area, with entire contact
underplated .000050 [0.00127] min.
nickel

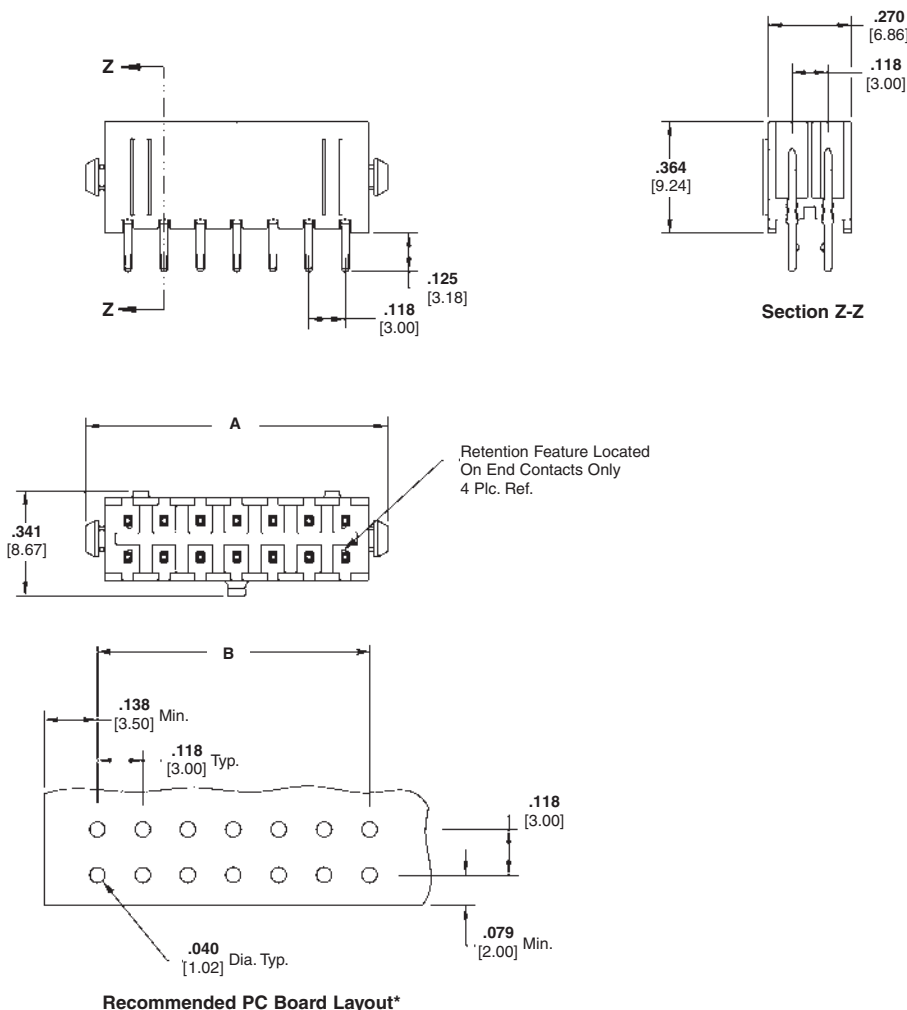
Plating C—.000030 [0.00076] gold in
mating area, .000100 [0.00254] min. tin
in solder area, with entire contact
underplated .000050 [0.00127] min.
nickel

Hold-downs—Phosphor Bronze,
.000100 [0.00254] min. tin over
.000050 [0.00127] min. nickel

Related Product Data

Mateable Housings:

Dual Row Receptacle Housing—page 24



Recommended PC Board Layout*

Number of Circuits	Dimensions		Header Part Numbers			Mates with Receptacle Housing Part Number
	A	B	Plating A	Plating B	Plating C	
2	.276 7.00	—	3-794630-2	3-794631-2	3-794632-2	794617-2
4	.394 10.00	.118 3.00	3-794630-4	3-794631-4	3-794632-4	794617-4
6	.512 13.00	.236 6.00	3-794630-6	3-794631-6	3-794632-6	794617-6
8	.630 16.00	.354 9.00	3-794630-8	3-794631-8	3-794632-8	794617-8
10	.748 19.00	.472 12.00	4-794630-0	4-794631-0	4-794632-0	1-794617-0
12	.866 22.00	.591 15.00	4-794630-2	4-794631-2	4-794632-2	1-794617-2
14	.984 25.00	.709 18.00	4-794630-4	4-794631-4	4-794632-4	1-794617-4
16	1.102 28.00	.827 21.00	4-794630-6	4-794631-6	4-794632-6	1-794617-6
18	1.220 31.00	.945 24.00	4-794630-8	4-794631-8	4-794632-8	1-794617-8
20	1.339 34.00	1.063 27.00	5-794630-0	5-794631-0	5-794632-0	2-794617-0
22	1.457 37.00	1.181 30.00	5-794630-2	5-794631-2	5-794632-2	2-794617-2
24	1.575 40.00	1.299 33.00	5-794630-4	5-794631-4	5-794632-4	2-794617-4

*Recommended PC Board thickness .062 [1.57]. Always consult customer drawing for PC Board layout dimensions.

Note: All part numbers are RoHS Compliant.

Micro MATE-N-LOK 3 mm Connector System (Continued)

Vertical Header Assemblies

(Continued)

**Dual Row, Through-Hole,
with Retention Feature
on Soldertail and
Metal Through-Hole Hold-down**

Material and Finish

Housing—High Temperature Nylon,
Black

Flammability Rating—UL 94V-0

Contacts—Brass

Plating A—.000100 [0.00254] min. tin
over .000050 [0.00127] min. nickel

Plating B—.000015 [0.00038] gold in
mating area, .000100 [0.00254] min. tin
in solder area, with entire contact
underplated .000050 [0.00127] min.
nickel

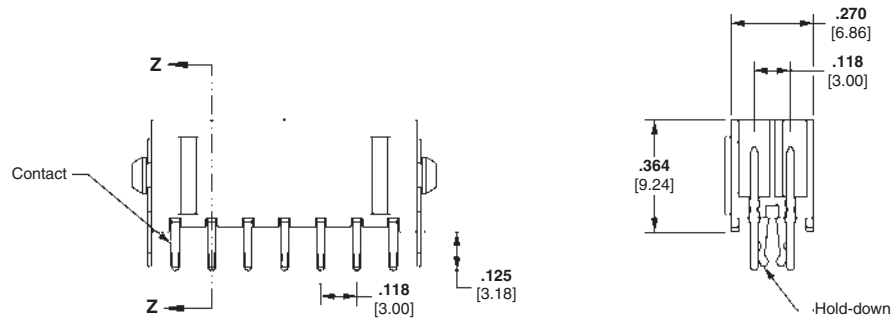
Plating C—.000030 [0.00076] gold in
mating area, .000100 [0.00254] min. tin
in solder area, with entire contact
underplated .000050 [0.00127] min.
nickel

Hold-downs—Phosphor Bronze,
.000100 [0.00254] min. tin over
.000050 [0.00127] min. nickel

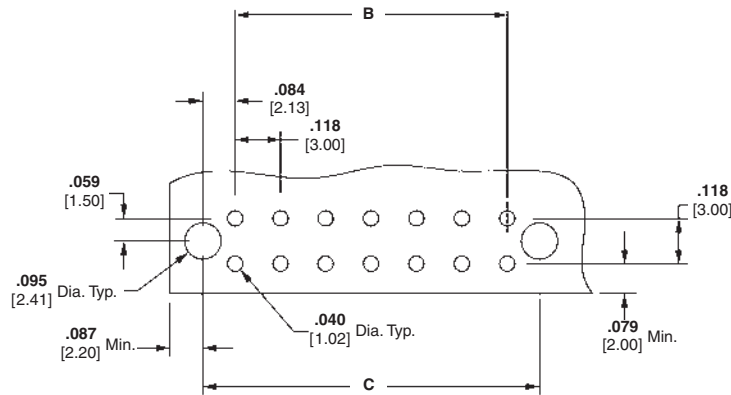
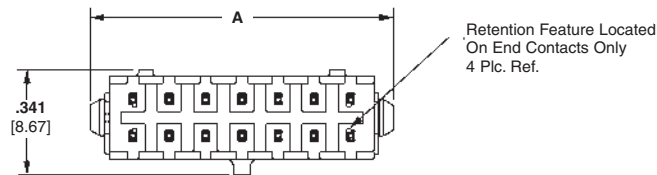
Related Product Data

Mateable Housings:

Dual Row Receptacle Housing—page 24



Section Z-Z



Recommended PC Board Layout*

Number of Circuits	Dimensions			Header Part Numbers			Mates with Receptacle Housing Part Number
	A	B	C	Plating A	Plating B	Plating C	
2	.276 7.00	—	.169 4.30	3-794680-2	3-794681-2	3-794682-2	794617-2
4	.394 10.00	.118 3.00	.287 7.30	3-794680-4	3-794681-4	3-794682-4	794617-4
6	.512 13.00	.236 6.00	.406 10.30	3-794680-6	3-794681-6	3-794682-6	794617-6
8	.630 16.00	.354 9.00	.524 13.30	3-794680-8	3-794681-8	3-794682-8	794617-8
10	.748 19.00	.472 12.00	.642 16.30	4-794680-0	4-794681-0	4-794682-0	1-794617-0
12	.866 22.00	.591 15.00	.760 19.30	4-794680-2	4-794681-2	4-794682-2	1-794617-2
14	.984 25.00	.709 18.00	.878 22.30	4-794680-4	4-794681-4	4-794682-4	1-794617-4
16	1.102 28.00	.827 21.00	.996 25.30	4-794680-6	4-794681-6	4-794682-6	1-794617-6
18	1.220 31.00	.945 24.00	1.114 28.30	4-794680-8	4-794681-8	4-794682-8	1-794617-8
20	1.339 34.00	1.063 27.00	1.232 31.30	5-794680-0	5-794681-0	5-794682-0	2-794617-0
22	1.457 37.00	1.181 30.00	1.350 34.30	5-794680-2	5-794681-2	5-794682-2	2-794617-2
24	1.575 40.00	1.299 33.00	1.469 37.30	5-794680-4	5-794681-4	5-794682-4	2-794617-4

*Recommended PC Board thickness .062 [1.57]. Always consult customer drawing for PC Board layout dimensions.

Note: All part numbers are RoHS Compliant.

Micro MATE-N-LOK 3 mm Connector System (Continued)

Vertical Header Assemblies

(Continued)

**Dual Row, Surface Mount,
with Metal Through-Hole
Hold-down**

Material and Finish

Housing—High Temperature Nylon,
Black

Flammability Rating—UL 94V-0

Contacts—Brass

Plating A—.000100 [0.00254] min. tin
over .000050 [0.00127] min. nickel

Plating B—.000015 [0.00038] gold in
mating area, .000100 [0.00254] min. tin
in solder area, with entire contact
underplated .000050 [0.00127] min.
nickel

Plating C—.000030 [0.00076] gold in
mating area, .000100 [0.00254] min. tin
in solder area, with entire contact
underplated .000050 [0.00127] min.
nickel

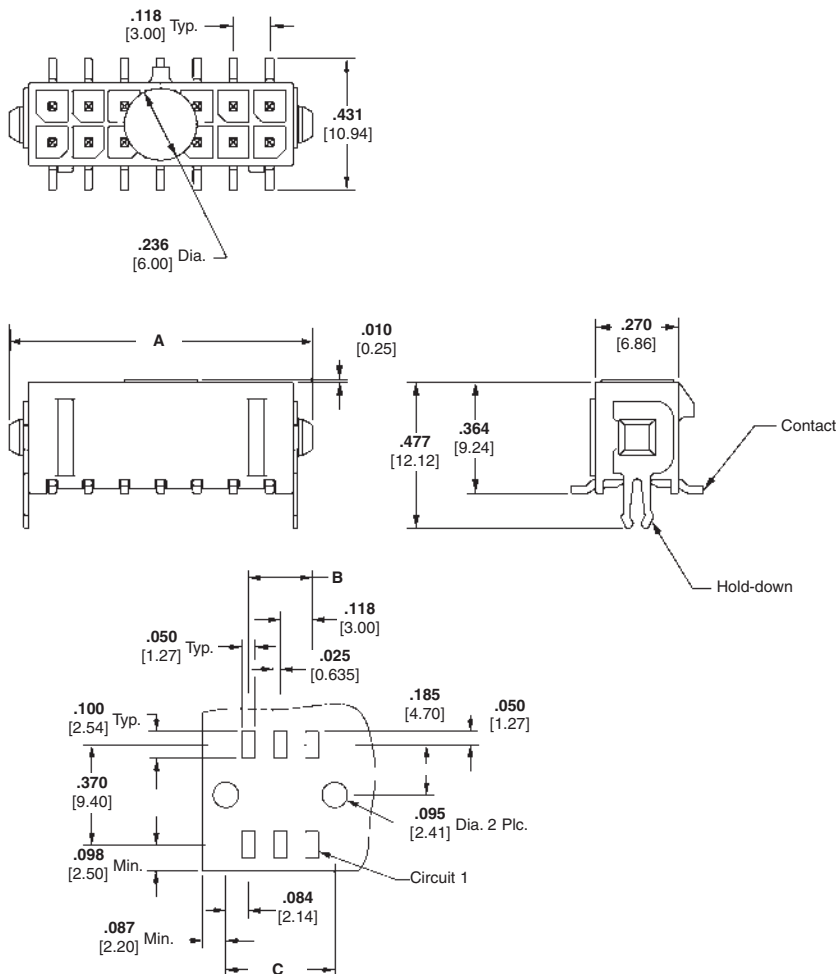
Hold-downs—Phosphor Bronze,
.000100 [0.00254] min. tin over
.000050 [0.00127] min. nickel

Pick-up Button—Kapton

Related Product Data

Mateable Housings:

Dual Row Receptacle Housing—page 24



Recommended PC Board Layout*

Number of Circuits	Dimensions			Header Part Numbers			Mates with Receptacle Housing Part Number
	A	B	C	Plating A	Plating B	Plating C	
2	.276 7.00	—	.169 4.30	3-794633-2	3-794634-2	3-794635-2	794617-2
4	.394 10.00	.118 3.00	.287 7.30	3-794633-4	3-794634-4	3-794635-4	794617-4
6	.512 13.00	.236 6.00	.406 10.30	3-794633-6	3-794634-6	3-794635-6	794617-6
8	.630 16.00	.354 9.00	.524 13.30	3-794633-8	3-794634-8	3-794635-8	794617-8
10	.748 19.00	.472 12.00	.642 16.30	4-794633-0	4-794634-0	4-794635-0	1-794617-0
12	.866 22.00	.591 15.00	.760 19.30	4-794633-2	4-794634-2	4-794635-2	1-794617-2
14	.984 25.00	.709 18.00	.878 22.30	4-794633-4	4-794634-4	4-794635-4	1-794617-4
16	1.10 28.00	2.827 21.00	.996 25.30	4-794633-6	4-794634-6	4-794635-6	1-794617-6
18	1.220 31.00	0.945 24.00	1.114 28.30	4-794633-8	4-794634-8	4-794635-8	1-794617-8
20	1.339 34.00	1.063 27.00	1.232 31.30	5-794633-0	5-794634-0	5-794635-0	2-794617-0
22	1.457 37.00	1.181 30.00	1.350 34.30	5-794633-2	5-794634-2	5-794635-2	2-794617-2
24	1.575 40.00	1.299 33.00	1.469 37.30	5-794633-4	5-794634-4	5-794635-4	2-794617-4

*Recommended PC Board thickness .062 [1.57]. Always consult customer drawing for PC Board layout dimensions.

Note: All part numbers are RoHS Compliant.

Micro MATE-N-LOK 3 mm Connector System (Continued)

Vertical Header Assemblies

(Continued)

Dual Row, Surface Mount, with Surface Mount Hold-down

Material and Finish

Housing — High Temperature Nylon,
Black

Flammability Rating — UL 94V-0

Contacts — Brass

Plating A — .000100 [0.00254] min. tin
over .000050 [0.00127] min. nickel

Plating B — .000015 [0.00038] gold in
mating area, .000100 [0.00254] min. tin
in solder area, with entire contact
underplated .000050 [0.00127] min.
nickel

Plating C — .000030 [0.00076] gold in
mating area, .000100 [0.00254] min. tin
in solder area, with entire contact
underplated .000050 [0.00127] min.
nickel

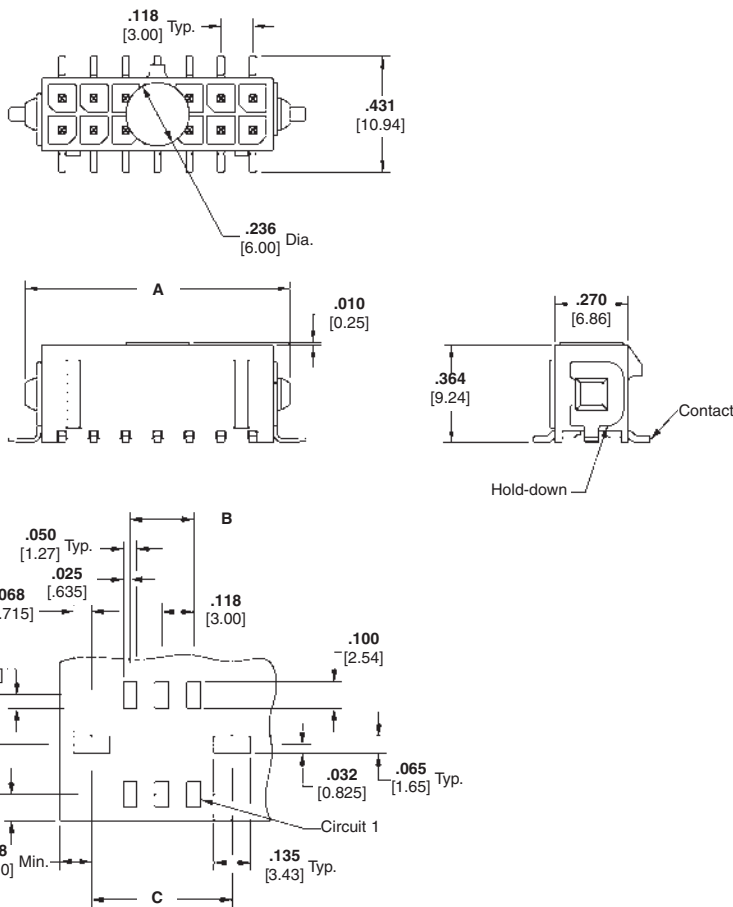
Hold-downs — Phosphor Bronze,
.000100 [0.00254] min. tin over
.000050 [0.00127] min. nickel

Pick-up Button — Kapton

Related Product Data

Mateable Housings:

Dual Row Receptacle Housing—page 24



Recommended PC Board Layout*

Number of Circuits	Dimensions			Header Part Numbers			Mates with Receptacle Housing Part Number
	A	B	C	Plating A	Plating B	Plating C	
2	.276 7.00	—	.286 7.27	3-794636-2	3-794637-2	3-794638-2	794617-2
4	.394 10.00	.118 3.00	.404 10.27	3-794636-4	3-794637-4	3-794638-4	794617-4
6	.512 13.00	.236 6.00	.522 13.27	3-794636-6	3-794637-6	3-794638-6	794617-6
8	.630 16.00	.354 9.00	.640 16.27	3-794636-8	3-794637-8	3-794638-8	794617-8
10	.748 19.00	.472 12.00	.758 19.27	4-794636-0	4-794637-0	4-794638-0	1-794617-0
12	.866 22.00	.591 15.00	.876 22.27	4-794636-2	4-794637-2	4-794638-2	1-794617-2
14	.984 25.00	.709 18.00	.994 25.27	4-794636-4	4-794637-4	4-794638-4	1-794617-4
16	1.102 28.00	.827 21.00	1.112 28.27	4-794636-6	4-794637-6	4-794638-6	1-794617-6
18	1.220 31.00	.945 24.00	1.230 31.27	4-794636-8	4-794637-8	4-794638-8	1-794617-8
20	1.339 34.00	1.063 27.00	1.349 34.27	5-794636-0	5-794637-0	5-794638-0	2-794617-0
22	1.457 37.00	1.181 30.00	1.467 37.27	5-794636-2	5-794637-2	5-794638-2	2-794617-2
24	1.575 40.00	1.299 33.00	1.585 40.27	5-794636-4	5-794637-4	5-794638-4	2-794617-4

*Always consult customer drawing for PC Board layout dimensions.

Note: All part numbers are RoHS Compliant.