Micro MATE-N-LOK 3mm Connector System

Product Facts

- **Wire-to-wire and wire-to-board pin and receptacle connector system**
- **Contacts are on 3 mm [.118] centerline spacing**
- **2-12 contact positions – single row**
- **2-24 contact positions – dual row**
- **Panel mount or free hanging wire-to-wire configurations**
- **Dual beam contact design for reliable interconnection**
- **Contacts accept 24-20 [0.2-0.6] and 30-26 [0.05-0.15] AWG wire with insulation diameter of .060 [1.52] maximum**
- **Contacts available in strip form or loose piece**
- **Pcb mount pin header assemblies in both vertical and right-angle styles**
- **Surface mount or through-hole pcb pin header attachment**
- **Pcb headers are IR reflow process compatible**
- **Recognized under the Component Program of Underwriters Laboratories Inc. c UL us to US and Canadian Standards, File No. E28476**
- **Passed Tests for VDE under Registration Number 40005280/Continuous Surveillance**

Performance Characteristics

Voltage Rating—250 vac

Current Rating—5 amp max. on 20 AWG wire

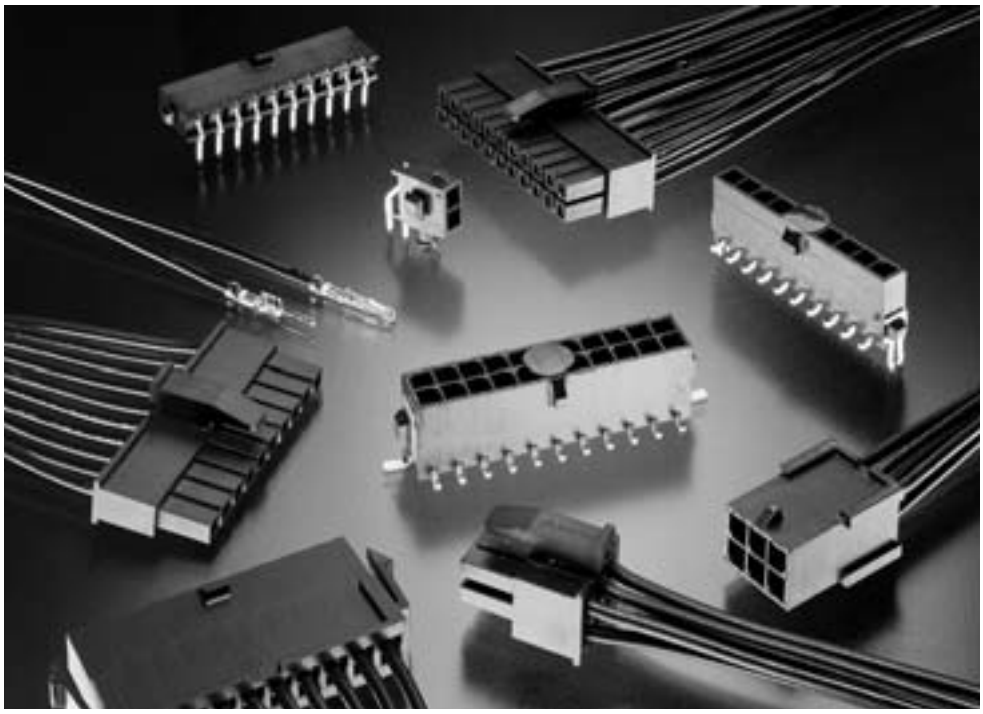
Contact Resistance—20 milliohms max. final

Dielectric Withstanding Voltage—1500 VAC

Insulation Resistance—1000 megohms min.

Operating Temperature— -40°C to +105°C

Mating Force—1.5lb [6.67N] max per contact



The Micro MATE-N-LOK 3 mm Connector System is a wire-to-wire and wire-to-board connector system with contacts on a 3 mm [.118] centerline. Both single-row and dual-row configurations are available. Crimp, snap-in pin and receptacle contacts are used to terminate 24-20 [0.2-0.6] and 30-26 [0.05-0.15] AWG wire. Plug and receptacle housings allow wire-to-wire and wire-to-panel configurations.

Header assemblies for wire-to-board interconnections include vertical and right-angle components. These IR reflow process compatible headers are available in through-hole and surface mount configurations.

Typical uses of the Micro MATE-N-LOK 3 mm Connector System include the appliance, instrumentation, industrial machinery, home equipment, and security system industries.

Technical Documents

Application Specification

114-13000 Micro MATE-N-LOK Connectors

Product Specification

108-1836 3 mm Micro MATE-N-LOK Connector

Catalog 82181
Revised 5-06

www.tycoelectronics.com

Dimensions are in inches and millimeters unless otherwise specified. Values in brackets are metric equivalents.

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

USA: 1-800-522-6752
Canada: 1-905-470-4425
Mexico: 52-55-1106-0800
C. America: 57-1-254-4444

South America: 55-11-2103-6000
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Japan: 81-44-844-8013
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Micro MATE-N-LOK 3mm Connector System (Continued)

Connector Application 19-21
Crimp, Snap-In Contacts 22

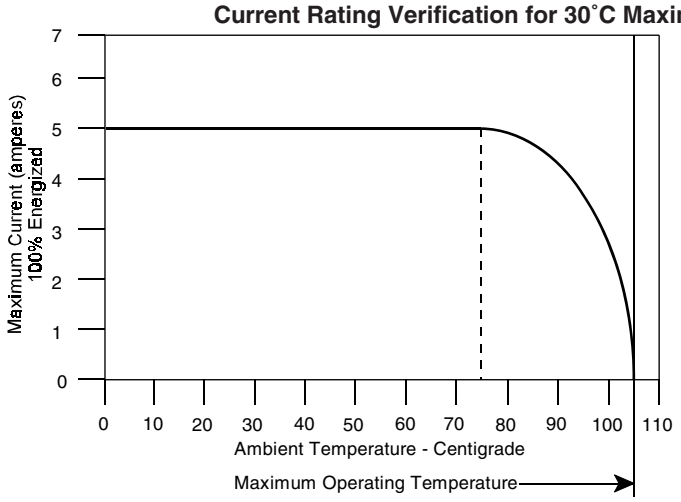
Receptacle Housings
Single Row 23
Dual Row 24

Plug Housings
Single Row, Free Hanging 25
Single Row, Panel Mount 26
Dual Row, Free Hanging 27
Dual Row, Panel Mount 28

Vertical Header Assemblies
Single Row, Through-Hole, with Retention Feature on Soldertail and Polarization Feature to PCB 29
Single Row, Through-Hole, with Metal Through-Hole Hold-down 30
Single Row, Surface Mount, with Metal Through-Hole Hold-down 31
Single Row, Surface Mount, with Surface Mount Hold-down 32
Dual Row, Through-Hole, with Retention Feature on Soldertail 33
Dual Row, Through-Hole, with Retention Feature on Soldertail and Metal Through-Hole Hold-down 34
Dual Row, Surface Mount, with Metal Through-Hole Hold-down 35
Dual Row, Surface Mount, with Surface Mount Hold-down 36

Right-Angle Header Assemblies
Single Row, Through-Hole, with Metal Through-Hole Hold-down 37
Single Row, Through-Hole, with Plastic Boardlock 38
Single Row, Surface Mount, with Metal Through-Hole Hold-down 39
Single Row, Surface Mount, with Surface Mount Hold-down 40
Single Row, Surface Mount, with Plastic Boardlock 41
Dual Row, Through-Hole, with Metal Through-Hole Hold-down 42
Dual Row, Through-Hole, with Plastic Boardlock 43
Dual Row, Surface Mount, with Metal Through-Hole Hold-down 44
Dual Row, Surface Mount, with Plastic Boardlock 45
Dual Row, Surface Mount, with Surface Mount Hold-down 46

Current Rating Verification for 30˚C Maximum Temperature Rise 100% Energized



Number of Circuit Positions	Multiplication Factor	
	Wire Size (AWG)	
	28	20
2 to 6	0.40	1
8 to 20	0.40	0.85
22 to 24	0.36	0.85

To determine acceptable current carrying capacity for connector size and wire gage indicated, use the Multiplication Factor from the chart above and multiply it times the Base rated Current at the maximum ambient operating temperature shown in the current rating figure.

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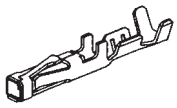
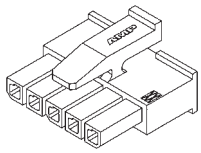
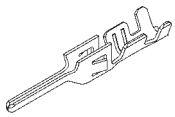
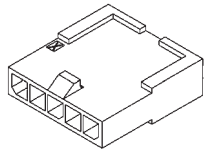
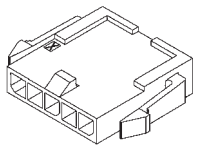
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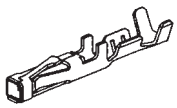
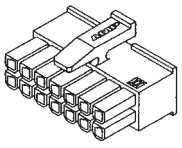
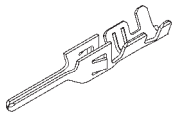
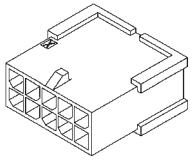
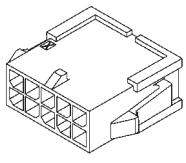
Micro MATE-N-LOK 3mm Connector System (Continued)

Connector Application — Wire-to-Wire and Wire-to-Panel

Single Row

Receptacle		Plug	
Contact	**Housing**	**Contact**	**Housing**
			
794606-☐, 794607-☐, 794610-☐, 794611-☐ Page 22	1445022-☐ Page 23	794608-☐, 794609-☐, 794612-☐, 794613-☐ Page 22	Free Hanging 1445049-☐ Page 25
			 Panel Mount 1445048-☐ Page 26

Dual Row

Receptacle		Plug	
Contact	**Housing**	**Contact**	**Housing**
			
794606-☐, 794607-☐, 794610-☐, 794611-☐ Page 22	794617-☐ Page 24	794608-☐, 794609-☐, 794612-☐, 794613-☐ Page 22	Free Hanging 794616-☐ Page 27
			 Panel Mount 794615-☐ Page 28

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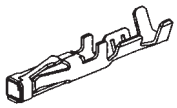
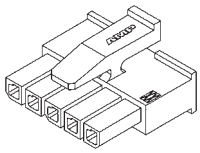
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Micro MATE-N-LOK 3mm Connector System (Continued)

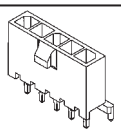
Connector Application — Wire-to-PCB

Single Row

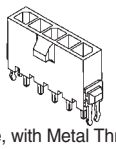
Receptacle

Contact	Housing
	
794606-☐, 794607-☐, 794610-☐, 794611-☐ Page 22	1445022-☐ Page 23

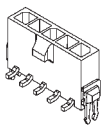
Header



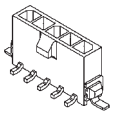
Vertical Through-Hole, with Retention Feature on Soldertail and Polarization Feature to PCB
1445050-☐, 1445084-☐, 1445093-☐ (Page 29)



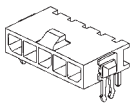
Vertical Through-Hole, with Metal Through-Hole Hold-down
1445051-☐, 1445085-☐, 1445094-☐ (Page 30)



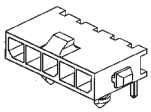
Vertical Surface Mount, with Metal Through-Hole Hold-down
1445052-☐, 1445086-☐, 1445095-☐ (Page 31)



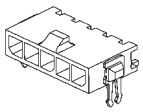
Vertical Surface Mount, with Surface Mount Hold-down
1445053-☐, 1445087-☐, 1445096-☐ (Page 32)



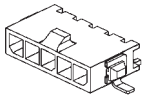
Right-angle, Through-Hole, with Metal Through-Hole Hold-down
1445054-☐, 1445088-☐, 1445097-☐ (Page 37)



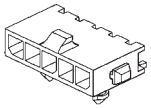
Right-angle, Through-Hole, with Plastic Boardlock
1445055-☐, 1445089-☐, 1445098-☐ (Page 38)



Right-angle, Surface Mount, with Metal Through-Hole Hold-down
1445056-☐, 1445090-☐, 1445099-☐ (Page 39)



Right-angle, Surface Mount, with Surface Mount Hold-down
1445057-☐, 1445091-☐, 1445100-☐ (Page 40)

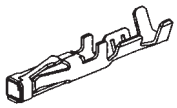
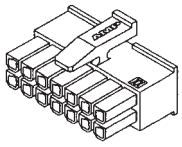
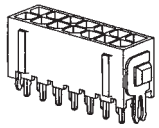
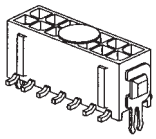
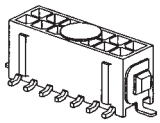
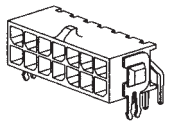
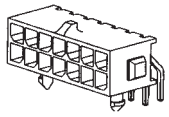
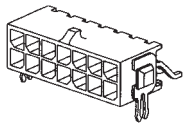
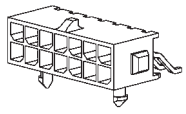
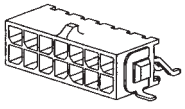


Right-angle, Surface Mount, and Plastic Boardlock
1445058-☐, 1445092-☐, 1445101-☐ (Page 41)

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

Connector Application — Wire-to-PCB

Dual Row

Receptacle		Header
Contact	Housing	
		
794606-☐, 794607-☐, 794610-☐, 794611-☐ Page 22	794617-☐ Page 24	Vertical Through-Hole, with Retention Feature on Soldertail and Optional Metal Through-Hole Hold-down 794630-☐, 794631-☐,794632-☐, (Page 33) 794680-☐, 794681-☐, 794682-☐ (Page 34)
		 Vertical Surface Mount, with Metal Through-Hole Hold-down 794633-☐, 794634-☐, 794635-☐ (Page 35)
		 Vertical Surface Mount, with Surface Mount Hold-down 794636-☐, 794637-☐, 794638-☐ (Page 36)
		 Right-angle, Through-Hole, with Metal Through-Hole Hold-down 794677-☐, 794678-☐, 794679-☐ (Page 42)
		 Right-angle, Through-Hole, with Plastic Boardlock 794618-☐, 794619-☐, 794620-☐ (Page 43)
		 Right-angle, Surface Mount, with Metal Through-Hole Hold-down 794624-☐, 794625-☐, 794626-☐ (Page 44)
		 Right-angle, Surface Mount, with Plastic Boardlock 794621-☐, 794622-☐, 794623-☐ (Page 45)
		 Right-angle, Surface Mount, with Surface Mount Hold-down 794627-☐, 794628-☐, 794629-☐ (Page 46)

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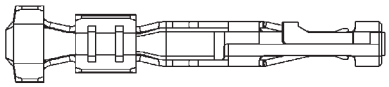
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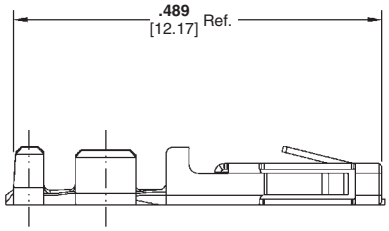
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Micro MATE-N-LOK 3mm Connector System (Continued)

Crimp, Snap-In Contacts





Material and Finish

Receptacle — Phosphor Bronze

Plug — Brass

Plating A — .000100 (.000254) minimum bright tin entire stock over .000050 (.000127) minimum nickel entire stock

Plating B — .000015 (.000038) minimum gold in localized gold plate area. .000100 (.000254) minimum bright tin in localized tin plate area, both over .000050 (.000127) minimum nickel on entire stock

Plating C — .000030 (.000076) minimum gold in localized gold plate area. .000100 (.000254) minimum bright tin in localized tin plate area, both over .000050 (.000127) minimum nickel on entire stock

Related Product Data

Connectors used with:

Receptacle Contacts used with Receptacle Housings — pages 23-24

Plug Contacts used with Plug Housings — pages 25-28

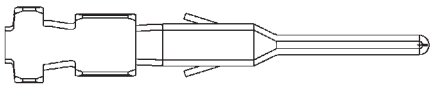
Application Tooling— pages 201-204

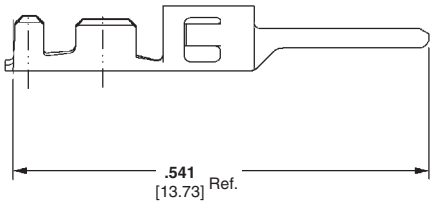
Receptacle Contacts

Wire Size Range AWG [mm²]	Ins. Dia. Range	Finish	Contact Part Numbers		Tooling Part Numbers	
			Strip Form	Loose Piece	Applicator	Hand Tool
20-24 0.50 - 0.20	**.035 - .060** 0.89-1.52	Plating A	794606-1	794610-1	680893-□*	91501-1
		Plating B	1-794606-1	1-794610-1		
		Plating C	1-794606-2	1-794610-2		
26-30 0.12 - 0.05	**.035 - .060** 0.89-1.52	Plating A	794607-1	794611-1	680894-□*	91502-1
		Plating B	1-794607-1	1-794611-1		
		Plating C	1-794607-2	1-794611-2		

*1=AMPOMATOR CLS Machine, 2=AMP-O-LECTRIC Model K Terminator, 3=AMP-O-LECTRIC Model G Terminator

Note: All part numbers are RoHS Compliant.





Plug Contacts

Wire Size Range AWG [mm²]	Ins. Dia. Range	Finish	Contact Part Numbers		Tooling Part Numbers	
			Strip Form	Loose Piece	Applicator	Hand Tool
20-24 0.50 - 0.20	**.035 - .060** 0.89-1.52	Plating A	1-794608-0	1-794612-0	1385194-□*	91501-1
		Plating B	1-794608-1	1-794612-1		
		Plating C	1-794608-2	1-794612-2		
26-30 0.12 -0.05	**.035 - .060** 0.89-1.52	Plating A	1-794609-0	1-794613-0	1385377-□*	91502-1
		Plating B	1-794609-1	1-794613-1		
		Plating C	1-794609-2	1-794613-2		

*1=AMPOMATOR CLS Machine, 2=AMP-O-LECTRIC Model K Terminator, 3=AMP-O-LECTRIC Model G Terminator

Note: All part numbers are RoHS Compliant.

Contact Extraction Tools

Part Number 843996-6 for Receptacle Contacts Part Number 1586344-1 for Plug Contacts

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

Receptacle Housings

Single Row

Material

Nylon, Black
Flammability Rating—UL 94V-0

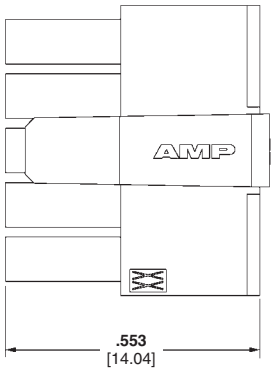
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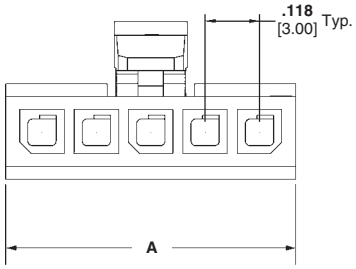
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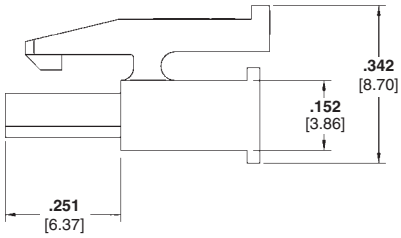
Receptacle Contacts—page 22

Mateable Housings and Headers:

Single Row Plug Housings—pages 25-26
Single Row Vertical Pin Header Assemblies—pages 29-32
Single Row Right-Angle Pin Header Assemblies—pages 37-41







Number of Circuits	Dimension A	Part Numbers
2	**.276** 7.00	1445022-2
3	**.394** 10.00	1445022-3
4	**.512** 13.00	1445022-4
5	**.630** 16.00	1445022-5
6	**.748** 19.00	1445022-6
7	**.866** 22.00	1445022-7
8	**.984** 25.00	1445022-8
9	**1.102** 28.00	1445022-9
10	**1.220** 31.00	1-1445022-0
11	**1.339** 34.00	1-1445022-1
12	**1.457** 37.00	1-1445022-2

Note: **All part numbers are RoHS Compliant.**

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

Receptacle Housings (Continued)

Dual Row

Material

Nylon, Black
Flammability Rating—UL 94V-0

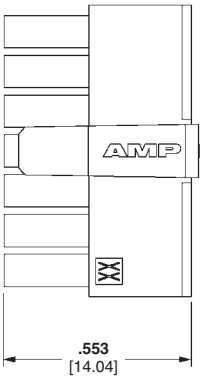
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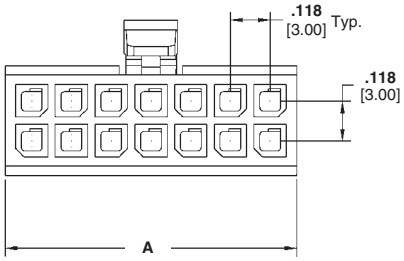
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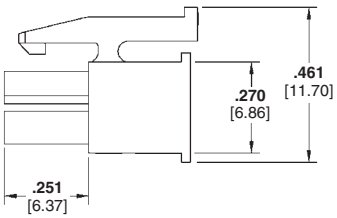
Receptacle Contacts—page 22

Mateable Housings and Headers:

Dual Row Plug Housings—pages 27-28
Dual Row Vertical Pin Header Assemblies—pages 33-36
Dual Row Right-Angle Pin Header Assemblies—pages 42-46







Number of Circuits	Dimension A	Part Numbers
2	**.157** 4.00	794617-2
4	**.276** 7.00	794617-4
6	**.394** 10.00	794617-6
8	**.512** 13.00	794617-8
10	**.630** 16.00	1-794617-0
12	**.748** 19.00	1-794617-2
14	**.866** 22.00	1-794617-4
16	**.984** 25.00	1-794617-6
18	**1.102** 28.00	1-794617-8
20	**1.220** 31.00	2-794617-0
22	**1.339** 34.00	2-794617-2
24	**1.457** 37.00	2-794617-4

Note: **All part numbers are RoHS Compliant.**

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

Plug Housings

Single Row, Free Hanging

Material

Nylon, Black
Flammability Rating—UL 94V-0

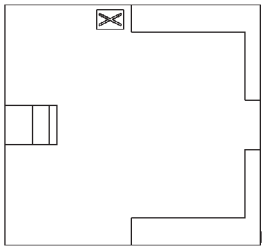
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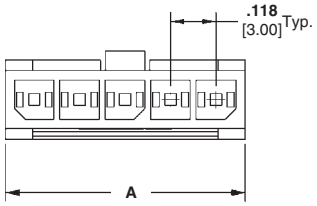
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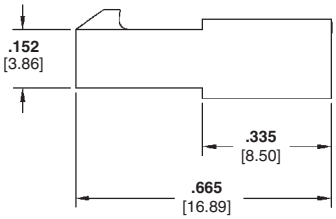
Plug Contacts—page 22

Mateable Housings:

Single Row Receptacle Housings—page 23







Number of Circuits	Dimension A	Part Numbers
2	**.270** 6.85	1445049-2
3	**.388** 9.85	1445049-3
4	**.506** 12.85	1445049-4
5	**.624** 15.85	1445049-5
6	**.742** 18.85	1445049-6
7	**.860** 21.85	1445049-7
8	**.978** 24.85	1445049-8
9	**1.096** 27.85	1445049-9
10	**1.215** 30.85	1-1445049-0
11	**1.333** 33.85	1-1445049-1
12	**1.451** 36.85	1-1445049-2

Note: **All part numbers are RoHS Compliant.**

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

Plug Housings (Continued)

Single Row, Panel Mount

Material

Nylon, Black
Flammability Rating—UL 94V-0

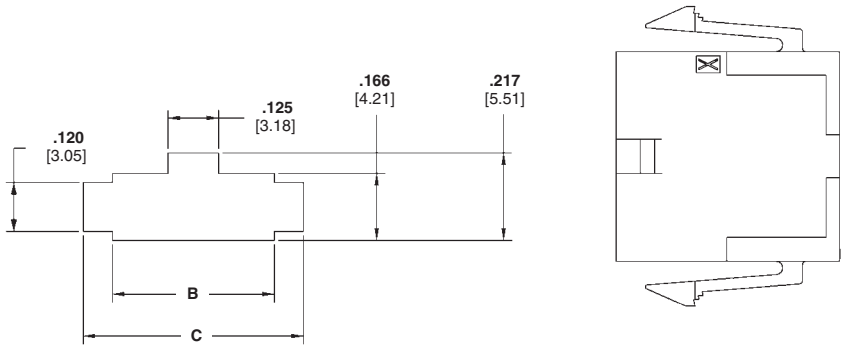
Related Product Data

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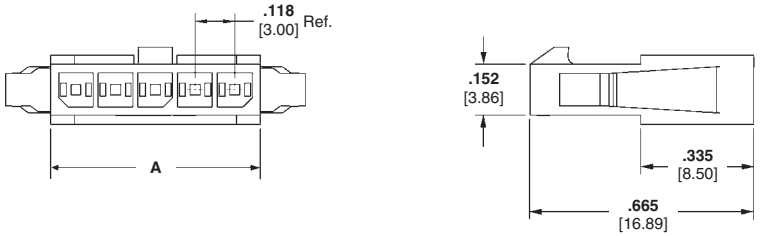
Plug Contacts—page 22

Mateable Housings:

Single Row Receptacle Housings—page 23



Recommended Panel Cutout*



Number of Circuits	Dimensions A	B	C	Part Numbers
2	**.270** 6.85	**.283** 7.20	**.428** 10.88	1445048-2
3	**.388** 9.85	**.402** 10.20	**.546** 13.88	1445048-3
4	**.506** 12.85	**.520** 13.20	**.665** 16.88	1445048-4
5	**.624** 15.85	**.638** 16.20	**.783** 19.88	1445048-5
6	**.742** 18.85	**.756** 19.20	**.901** 22.88	1445048-6
7	**.860** 21.85	**.874** 22.20	**1.019** 25.88	1445048-7
8	**.978** 24.85	**.992** 25.20	**1.137** 28.88	1445048-8
9	**1.096** 27.85	**1.110** 28.20	**1.255** 31.88	1445048-9
10	**1.215** 30.85	**1.228** 31.20	**1.373** 34.88	1-1445048-0
11	**1.333** 33.85	**1.346** 34.20	**1.491** 37.88	1-1445048-1
12	**1.451** 36.85	**1.465** 37.20	**1.609** 40.88	1-1445048-2

*Recommended panel thickness .062-.091 [1.57-2.30]. Always consult customer drawing for panel cutout dimensions.

Note: All part numbers are RoHS Compliant.

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

Plug Housings (Continued)

Dual Row, Free Hanging

Material

Nylon, Black
Flammability Rating—UL 94V-0

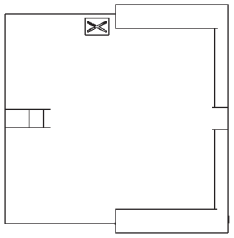
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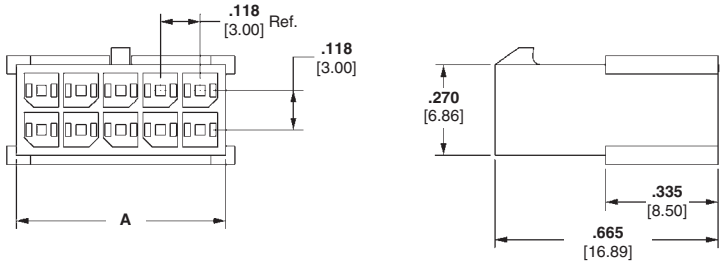
Contacts:

Plug Contacts—page 22

Mateable Housings:

Dual Row Receptacle Housings—page 24





Number of Circuits	Dimension A	Part Numbers
2	**.157** 3.85	794616-2
4	**.276** 6.85	794616-4
6	**.394** 9.85	794616-6
8	**.512** 12.85	794616-8
10	**.630** 15.85	1-794616-0
12	**.748** 18.85	1-794616-2
14	**.866** 21.85	1-794616-4
16	**.984** 24.85	1-794616-6
18	**1.102** 27.85	1-794616-8
20	**1.220** 30.85	2-794616-0
22	**1.339** 33.85	2-794616-2
24	**1.457** 36.85	2-794616-4

Note: All part numbers are RoHS Compliant.

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

Plug Housings (Continued)

Dual Row, Panel Mount

Material

Nylon, Black
Flammability Rating—UL 94V-0

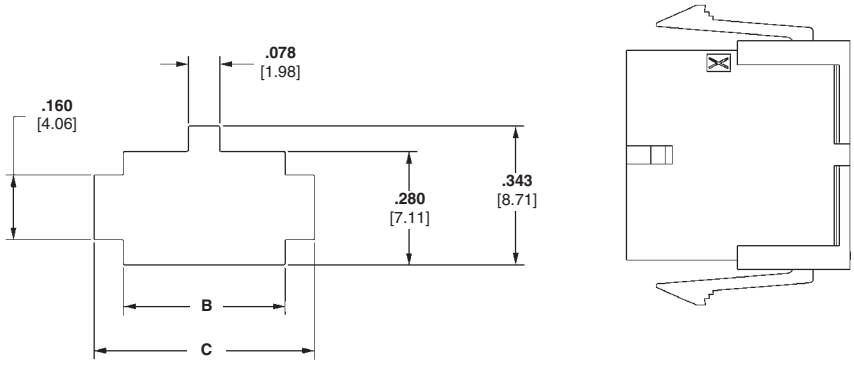
Related Product Data

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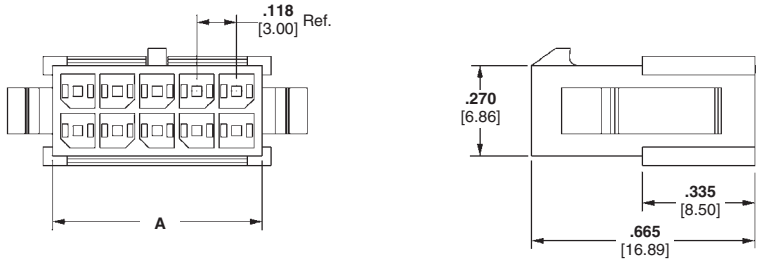
Plug Contacts—page 22

Mateable Housings:

Dual Row Receptacle Housings—page 24



Recommended Panel Cutout*



Number of Circuits	Dimensions A	B	C	Part Numbers
2	**.157** 3.85	**.165** 4.20	**.310** 7.88	794615-2
4	**.276** 6.85	**.285** 7.20	**.428** 10.88	794615-4
6	**.394** 9.85	**.402** 10.20	**.546** 13.88	794615-6
8	**.512** 12.85	**.520** 13.20	**.665** 16.88	794615-8
10	**.630** 15.85	**.638** 16.20	**.783** 19.88	1-794615-0
12	**.748** 18.85	**.756** 19.20	**.901** 22.88	1-794615-2
14	**.866** 21.85	**.874** 22.20	**1.019** 25.88	1-794615-4
16	**.984** 24.85	**.992** 25.20	**1.137** 28.88	1-794615-6
18	**1.102** 27.85	**1.110** 28.20	**1.255** 31.88	1-794615-8
20	**1.220** 30.85	**1.228** 31.20	**1.373** 34.88	2-794615-0
22	**1.339** 33.85	**1.346** 34.20	**1.491** 37.88	2-794615-2
24	**1.457** 36.85	**1.469** 37.20	**1.609** 40.88	2-794615-4

*Recommended panel thickness .062-.091 [1.57-2.30]. Always consult customer drawing for panel cutout dimensions.

Note: All part numbers are RoHS Compliant.

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UK: 44-208-420-8341

Vertical Header Assemblies

Single Row, Through-Hole, with Retention Feature on Soldertail 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

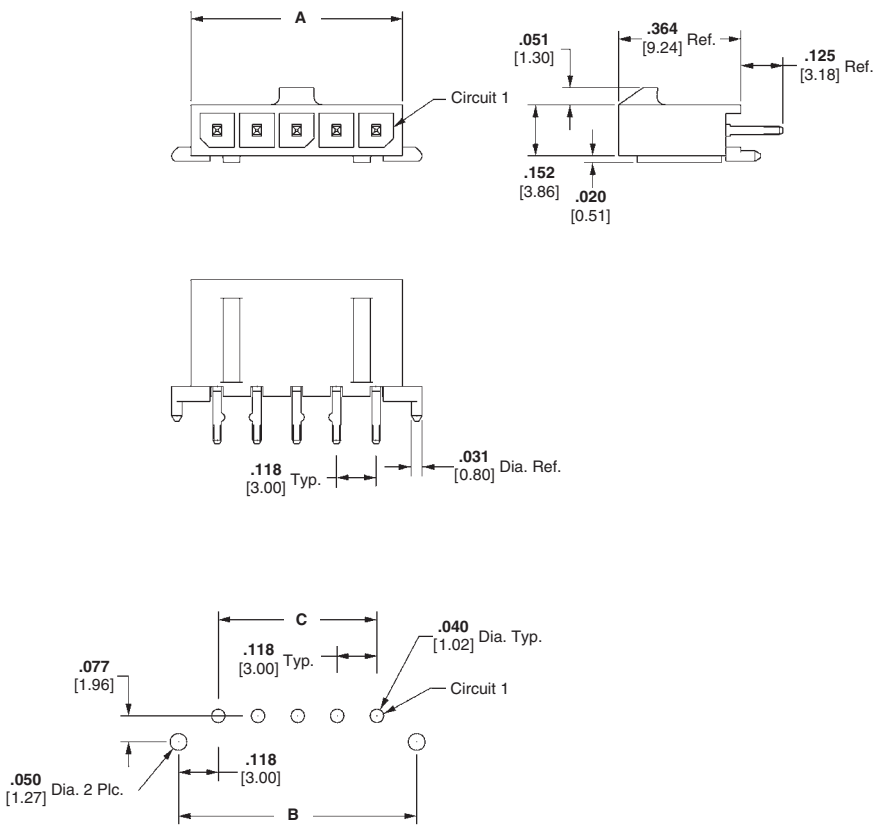
Plating B—.000015 [0.00038] gold in mating area, .000100 [0.00254] min. tin in solder area, with entire contact underplated .000050 [0.00127] min. nickel

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.

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Japan: 81-44-844-8013
UK: 44-208-420-8341

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

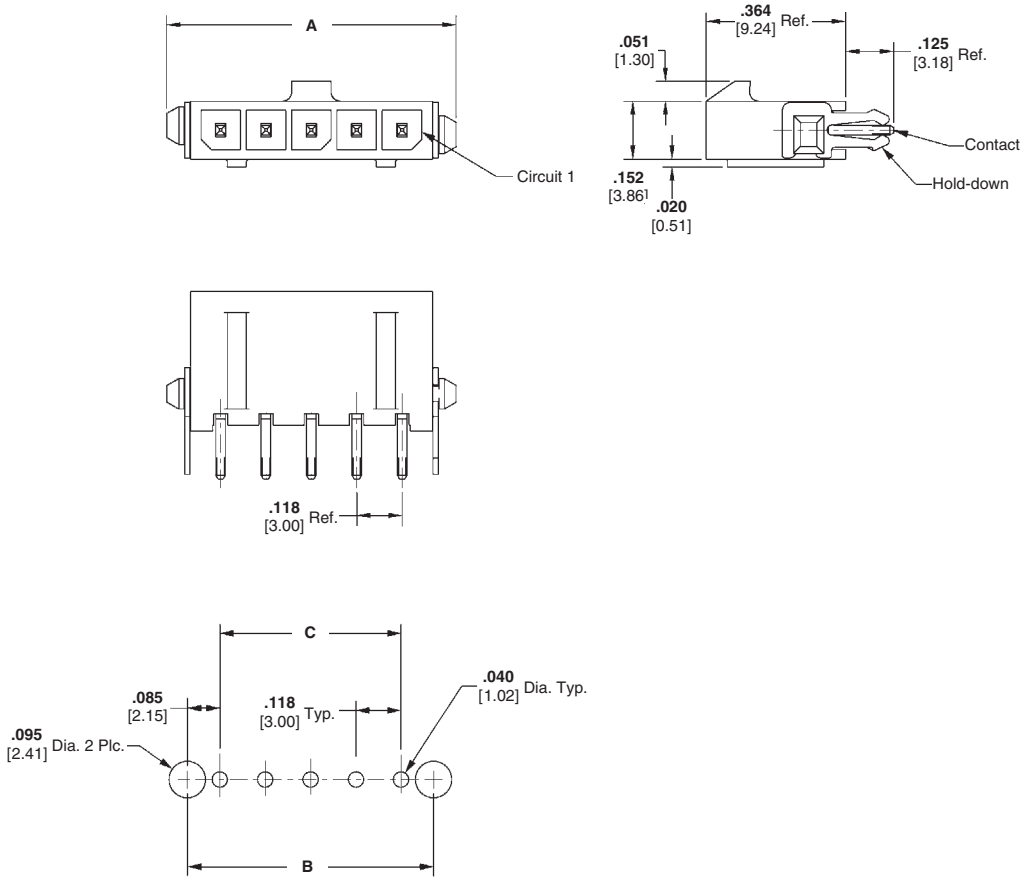
Plating C—.000030 [0.00076] gold in mating area, .000100 [0.00254] min. tin in solder area, with entire contact underplated .000050 [0.00127] min. nickel

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.

Catalog 82181
Revised 5-06

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Hong Kong: 852-2735-1628
Japan: 81-44-844-8013
UK: 44-208-420-8341

Micro MATE-N-LOK 3mm 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

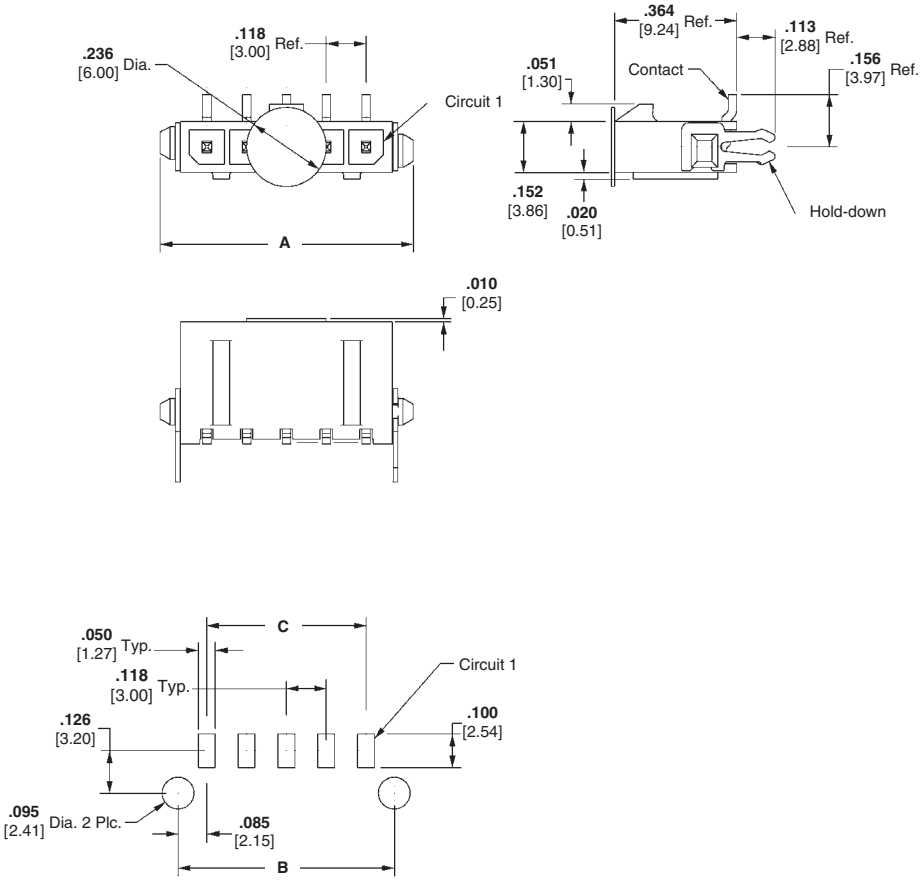
Plating C—.000030 [0.00076] gold in mating area, .000100 [0.00254] min. tin in solder area, with entire contact underplated .000050 [0.00127] min. nickel

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.

Catalog 82181
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Japan: 81-44-844-8013
UK: 44-208-420-8341

Micro MATE-N-LOK 3mm 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

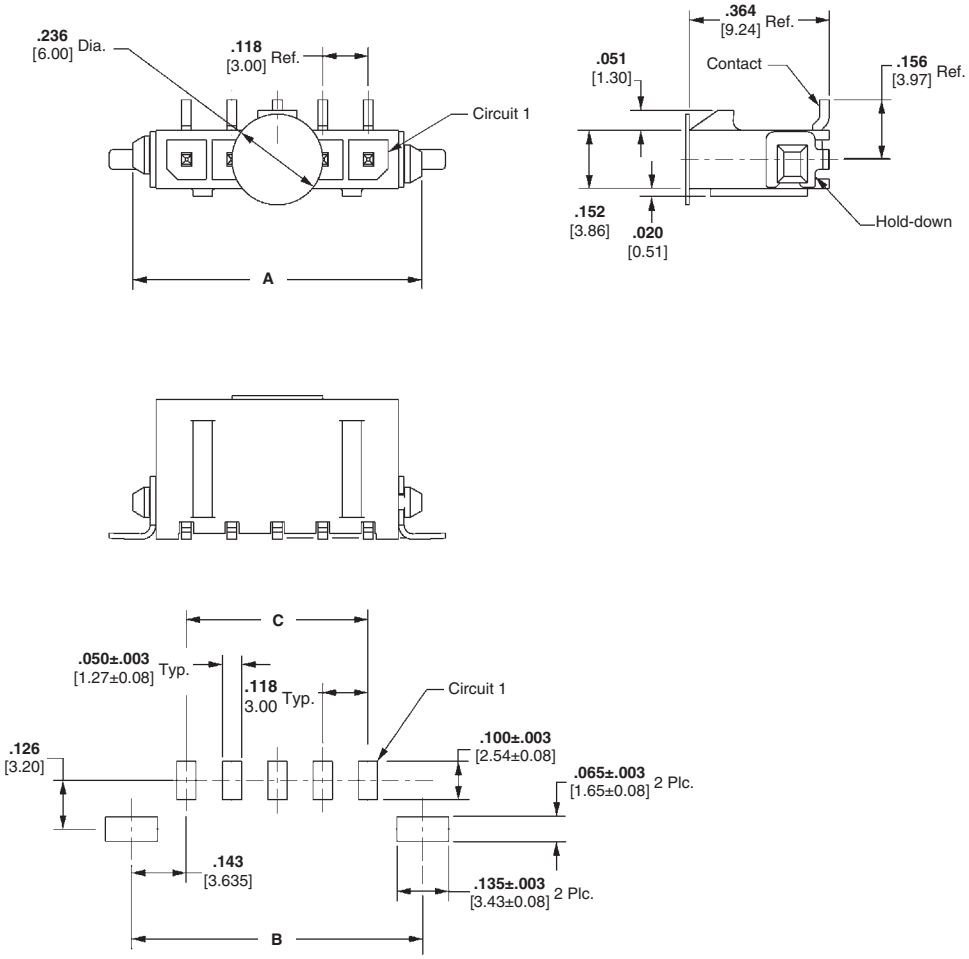
Plating C—.000030 [0.00076] gold in mating area, .000100 [0.00254] min. tin in solder area, with entire contact underplated .000050 [0.00127] min. nickel

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.

Catalog 82181
Revised 5-06

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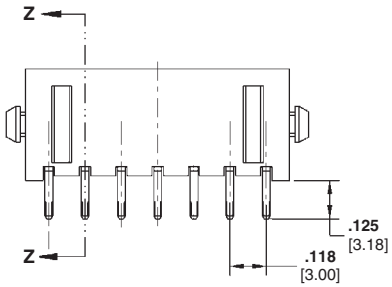
South America: 55-11-2103-6000
Hong Kong: 852-2735-1628
Japan: 81-44-844-8013
UK: 44-208-420-8341

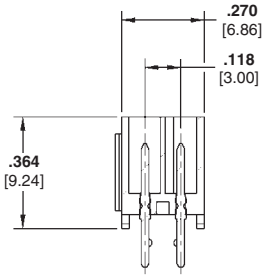
Micro MATE-N-LOK 3mm Connector System (Continued)

Vertical Header Assemblies

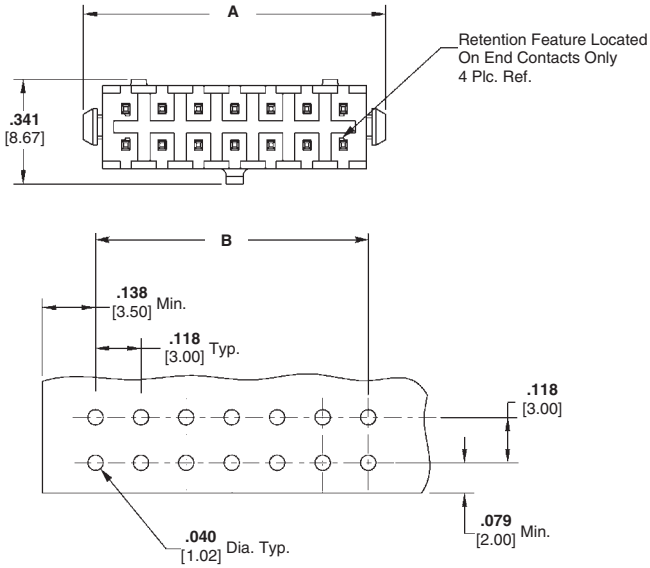
(Continued)

Dual Row, Through-Hole, with Retention Feature on Soldertail





Section Z-Z



Recommended PC Board Layout*

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

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.

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Micro MATE-N-LOK 3mm 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

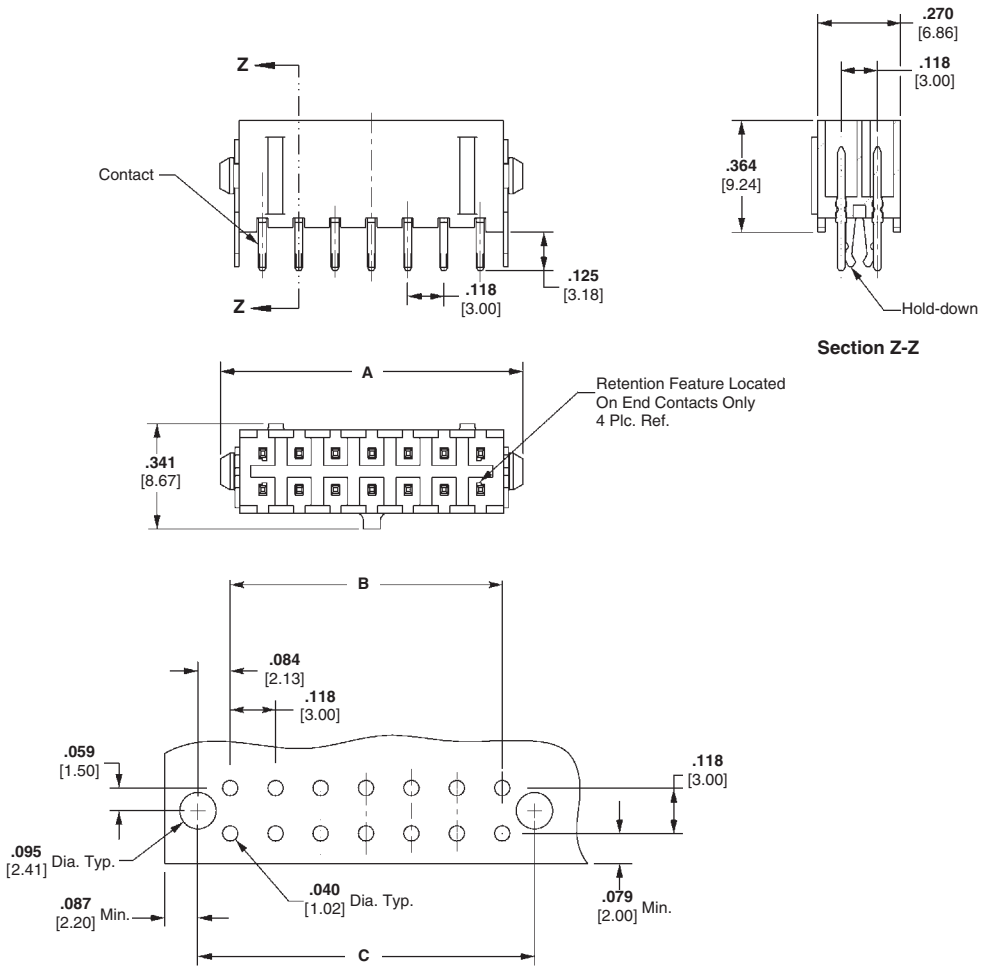
Plating C—.000030 [0.00076] gold in mating area, .000100 [0.00254] min. tin in solder area, with entire contact underplated .000050 [0.00127] min. nickel

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



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.

Catalog 82181
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Micro MATE-N-LOK 3mm 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

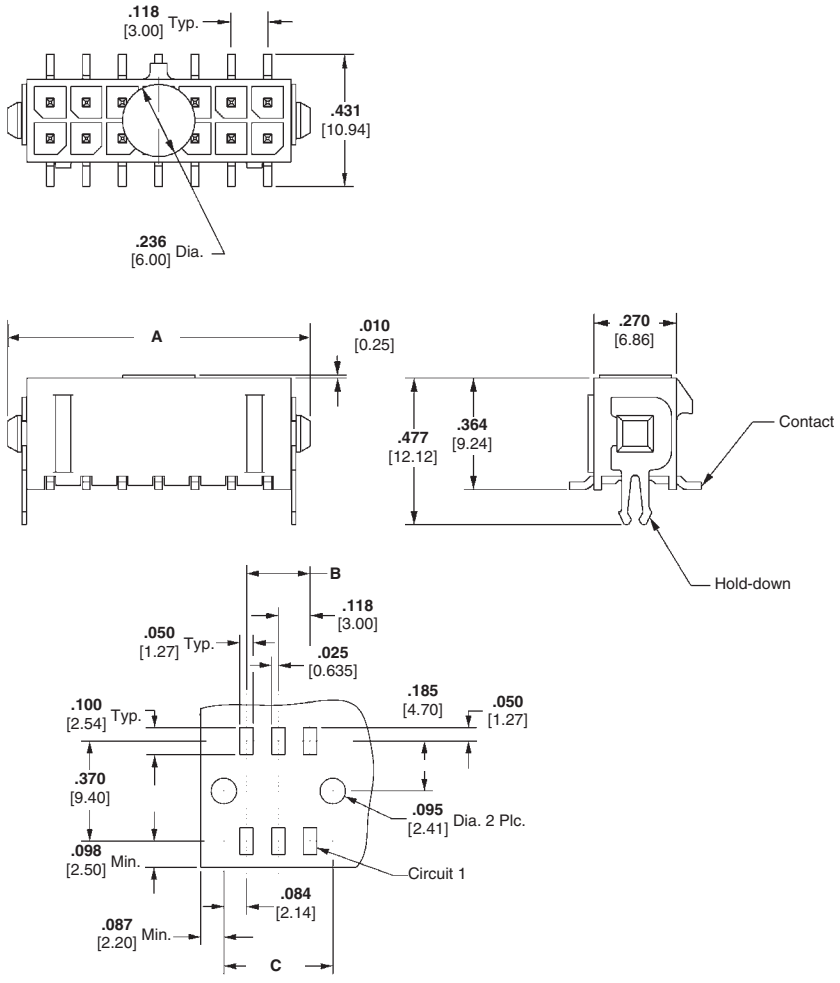
Hold-downs—Phosphor Bronze, .000100 [0.00254] min. tin over .000050 [0.00127] min. nickel

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.

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Micro MATE-N-LOK 3mm 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

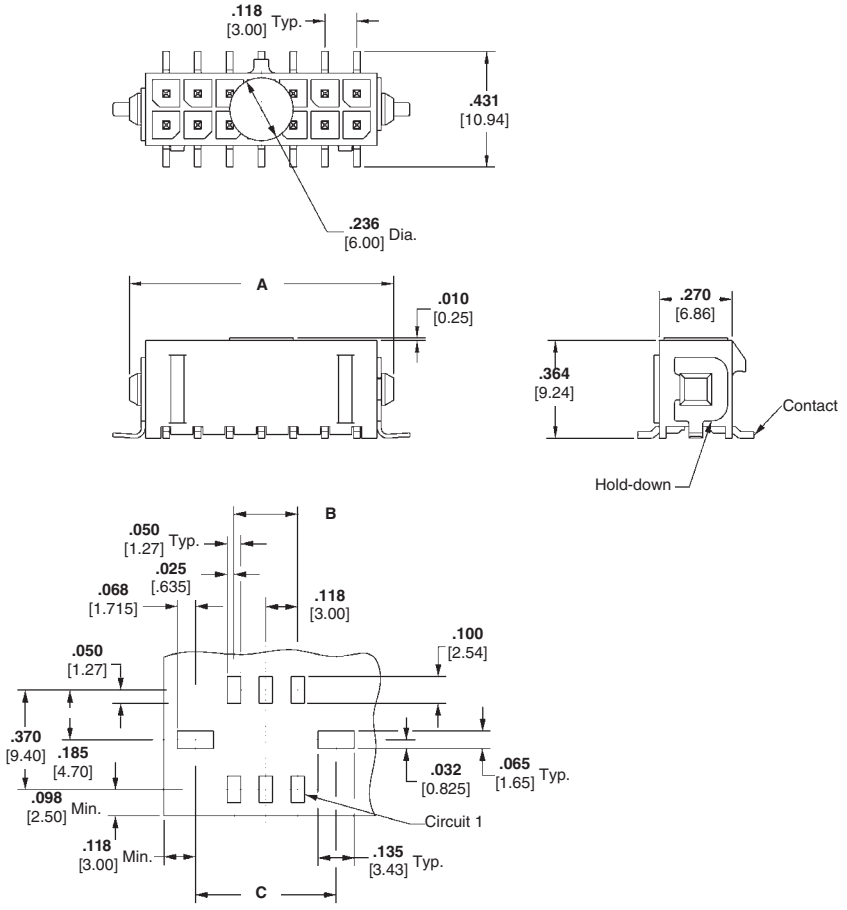
Hold-downs—Phosphor Bronze, .000100 [0.00254] min. tin over .000050 [0.00127] min. nickel

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.

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Japan: 81-44-844-8013
UK: 44-208-420-8341

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

Right-Angle Header Assemblies

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

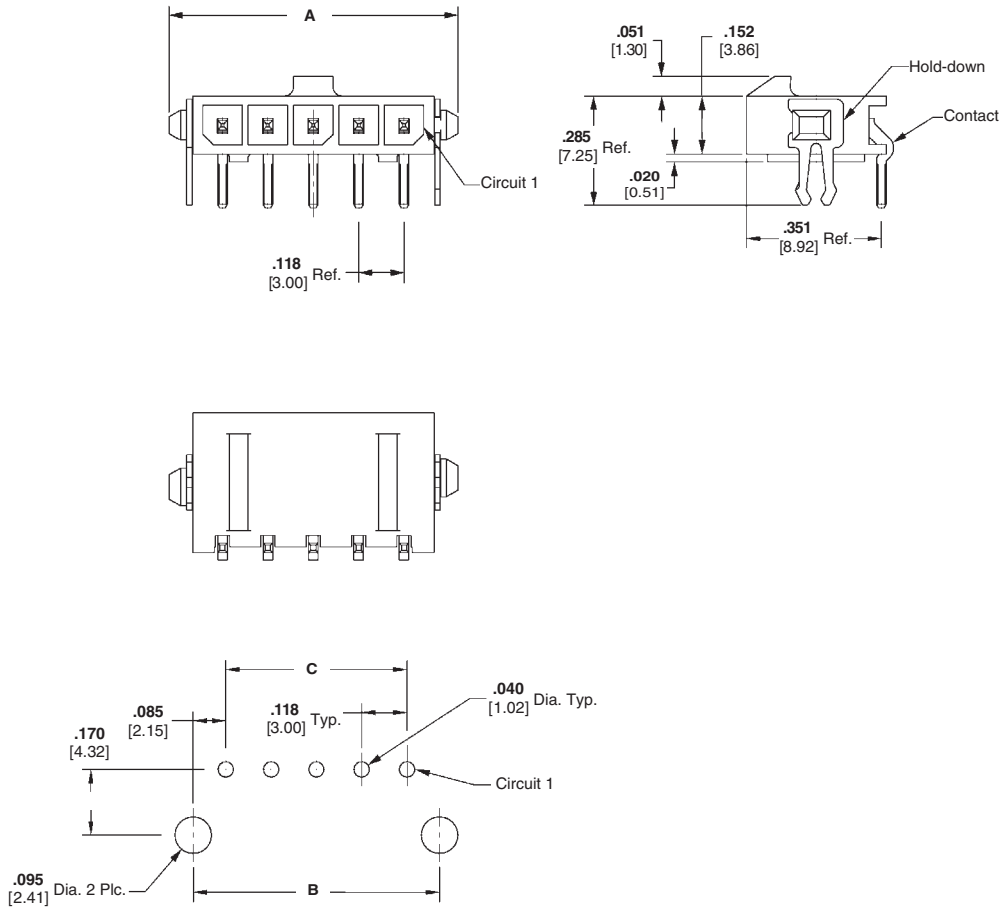
Plating C—.000030 [0.00076] gold in mating area, .000100 [0.00254] min. tin in solder area, with entire contact underplated .000050 [0.00127] min. nickel

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	2-1445054-2	2-1445088-2	2-1445097-2	1445022-2
3	**.517** 13.14	**.411** 10.43	**.236** 6.00	2-1445054-3	2-1445088-3	2-1445097-3	1445022-3
4	**.635** 16.14	**.529** 13.43	**.354** 9.00	2-1445054-4	2-1445088-4	2-1445097-4	1445022-4
5	**.754** 19.14	**.647** 16.43	**.472** 12.00	2-1445054-5	2-1445088-5	2-1445097-5	1445022-5
6	**.871** 22.14	**.765** 19.43	**.591** 15.00	2-1445054-6	2-1445088-6	2-1445097-6	1445022-6
7	**.990** 25.14	**.883** 22.43	**.709** 18.00	2-1445054-7	2-1445088-7	2-1445097-7	1445022-7
8	**1.108** 28.14	**1.001** 25.43	**.827** 21.00	2-1445054-8	2-1445088-8	2-1445097-8	1445022-8
9	**1.226** 31.14	**1.119** 28.43	**.945** 24.00	2-1445054-9	2-1445088-9	2-1445097-9	1445022-9
10	**1.344** 34.14	**1.237** 31.43	**1.063** 27.00	3-1445054-0	3-1445088-0	3-1445097-0	1-1445022-0
11	**1.462** 37.14	**1.356** 34.43	**1.181** 30.00	3-1445054-1	3-1445088-1	3-1445097-1	1-1445022-1
12	**1.580** 40.14	**1.474** 37.43	**1.299** 33.00	3-1445054-2	3-1445088-2	3-1445097-2	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.

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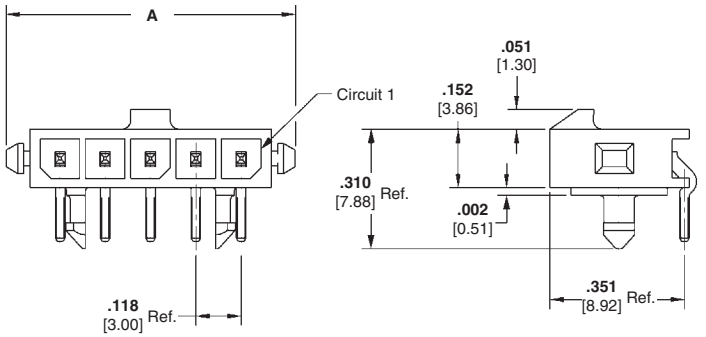
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Canada: 1-905-470-4425
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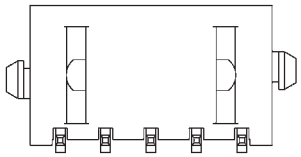
South America: 55-11-2103-6000
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Micro MATE-N-LOK 3mm Connector System (Continued)

Right-Angle Header Assemblies (Continued)

Single Row, Through-Hole, with Plastic Boardlock





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

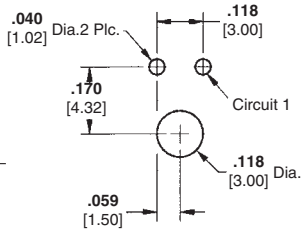
Plating B—.000015 [0.00038] gold in mating area, .000100 [0.00254] min. tin in solder area, with entire contact underplated .000050 [0.00127] min. nickel

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

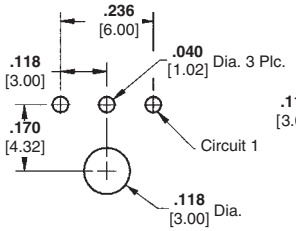
Related Product Data

Mateable Housings:

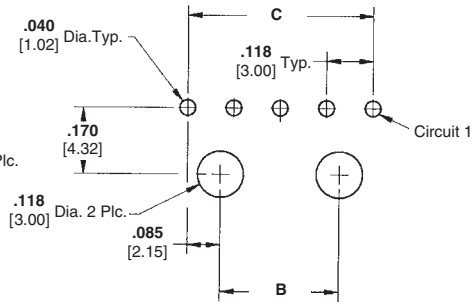
Single Row Receptacle Housing—page 23



Recommended PC Board Layout 2 Position*



Recommended PC Board Layout 3 Position*



Recommended PC Board Layout 4-12 Position*

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	—	—	2-1445055-2	2-1445089-2	2-1445098-2	1445022-2
3	**.517** 13.14	—	—	2-1445055-3	2-1445089-3	2-1445098-3	1445022-3
4	**.635** 16.14	**.185** 4.70	**.354** 9.00	2-1445055-4	2-1445089-4	2-1445098-4	1445022-4
5	**.754** 19.14	**.303** 7.70	**.472** 12.00	2-1445055-5	2-1445089-5	2-1445098-5	1445022-5
6	**.871** 22.14	**.421** 10.70	**.591** 15.00	2-1445055-6	2-1445089-6	2-1445098-6	1445022-6
7	**.990** 25.14	**.539** 13.70	**.709** 18.00	2-1445055-7	2-1445089-7	2-1445098-7	1445022-7
8	**1.108** 28.14	**.657** 16.70	**.827** 21.00	2-1445055-8	2-1445089-8	2-1445098-8	1445022-8
9	**1.226** 31.14	**.775** 19.70	**.945** 24.00	2-1445055-9	2-1445089-9	2-1445098-9	1445022-9
10	**1.344** 34.14	**.894** 22.70	**1.063** 27.00	3-1445055-0	3-1445089-0	3-1445098-0	1-1445022-0
11	**1.462** 37.14	**1.012** 25.70	**1.181** 30.00	3-1445055-1	3-1445089-1	3-1445098-1	1-1445022-1
12	**1.580** 40.14	**1.300** 28.70	**1.299** 33.00	3-1445055-2	3-1445089-2	3-1445098-2	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.

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

Right-Angle 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

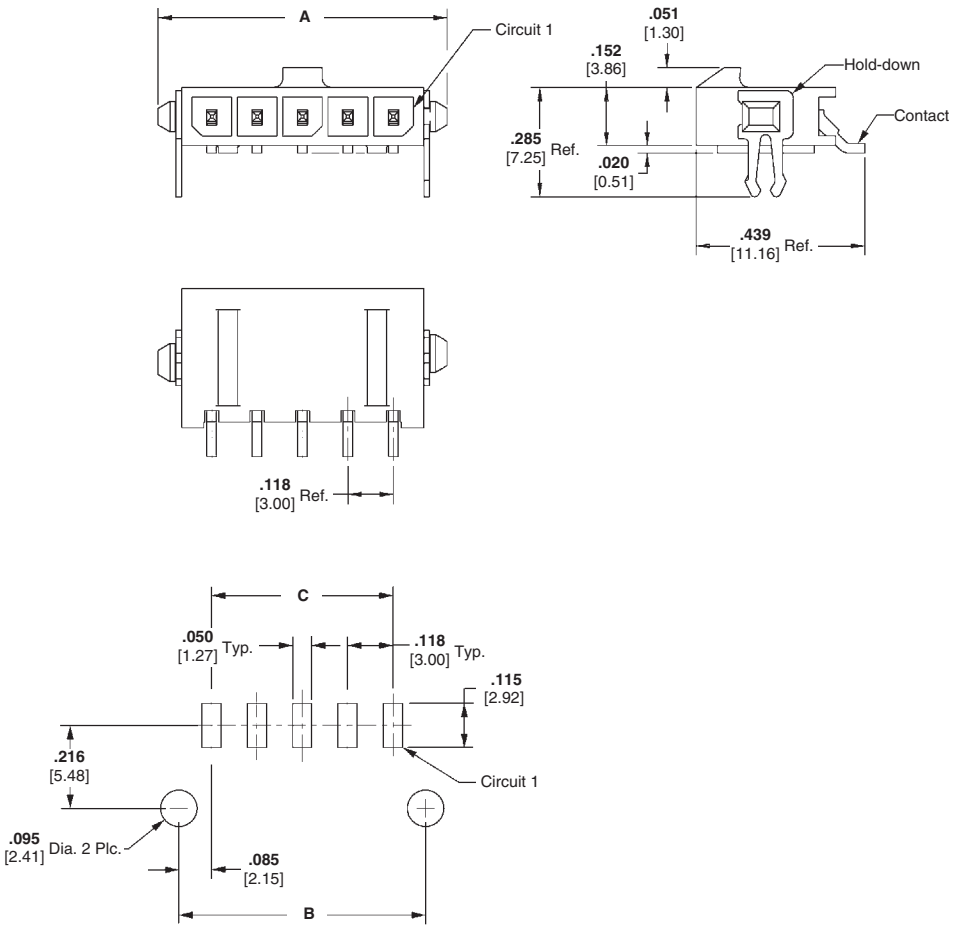
Plating C—.000030 [0.00076] gold in mating area, .000100 [0.00254] min. tin in solder area, with entire contact underplated .000050 [0.00127] min. nickel

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	2-1445056-2	2-1445090-2	2-1445099-2	1445022-2
3	**.512** 13.00	**.411** 10.43	**.236** 6.00	2-1445056-3	2-1445090-3	2-1445099-3	1445022-3
4	**.630** 16.00	**.529** 13.43	**.354** 9.00	2-1445056-4	2-1445090-4	2-1445099-4	1445022-4
5	**.748** 19.00	**.647** 16.43	**.472** 12.00	2-1445056-5	2-1445090-5	2-1445099-5	1445022-5
6	**.866** 22.00	**.765** 19.43	**.591** 15.00	2-1445056-6	2-1445090-6	2-1445099-6	1445022-6
7	**.984** 25.00	**.883** 22.43	**.709** 18.00	2-1445056-7	2-1445090-7	2-1445099-7	1445022-7
8	**1.102** 28.00	**1.001** 25.43	**.827** 21.00	2-1445056-8	2-1445090-8	2-1445099-8	1445022-8
9	**1.220** 31.00	**1.119** 28.43	**0.945** 24.00	2-1445056-9	2-1445090-9	2-1445099-9	1445022-9
10	**1.339** 34.00	**1.237** 31.43	**1.063** 27.00	3-1445056-0	3-1445090-0	3-1445099-0	1-1445022-0
11	**1.457** 37.00	**1.356** 34.43	**1.181** 30.00	3-1445056-1	3-1445090-1	3-1445099-1	1-1445022-1
12	**1.575** 40.00	**1.474** 37.43	**1.299** 33.00	3-1445056-2	3-1445090-2	3-1445099-2	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.

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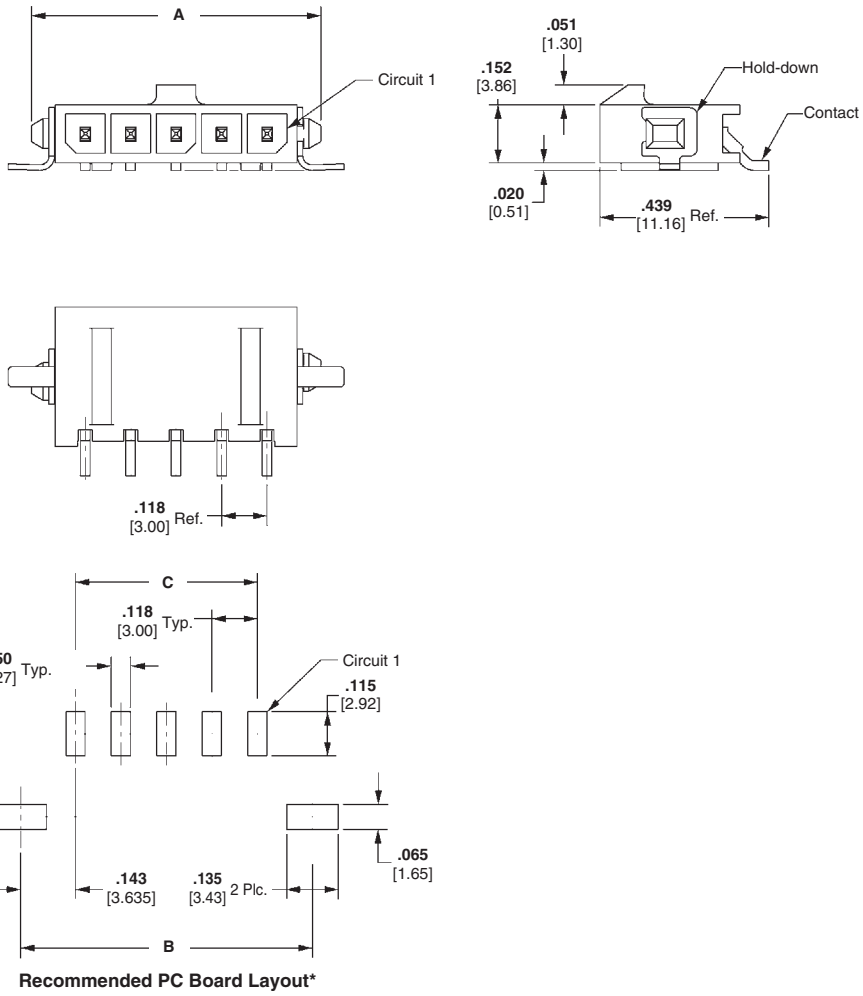
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Micro MATE-N-LOK 3mm Connector System (Continued)

Right-Angle Header Assemblies (Continued)

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



Recommended PC Board Layout*

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

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	2-1445057-2	2-1445091-2	2-1445100-2	1445022-2
3	**.512** 13.00	**.528** 13.41	**.236** 6.00	2-1445057-3	2-1445091-3	2-1445100-3	1445022-3
4	**.630** 16.00	**.646** 16.41	**.354** 9.00	2-1445057-4	2-1445091-4	2-1445100-4	1445022-4
5	**.748** 19.00	**.764** 19.41	**.472** 12.00	2-1445057-5	2-1445091-5	2-1445100-5	1445022-5
6	**.866** 22.00	**.882** 22.41	**.591** 15.00	2-1445057-6	2-1445091-6	2-1445100-6	1445022-6
7	**.984** 25.00	**1.000** 25.41	**.709** 18.00	2-1445057-7	2-1445091-7	2-1445100-7	1445022-7
8	**1.102** 28.00	**1.119** 28.41	**.827** 21.00	2-1445057-8	2-1445091-8	2-1445100-8	1445022-8
9	**1.220** 31.00	**1.237** 31.41	**.945** 24.00	2-1445057-9	2-1445091-9	2-1445100-9	1445022-9
10	**1.339** 34.00	**1.355** 34.41	**1.063** 27.00	3-1445057-0	3-1445091-0	3-1445100-0	1-1445022-0
11	**1.457** 37.00	**1.472** 37.41	**1.181** 30.00	3-1445057-1	3-1445091-1	3-1445100-1	1-1445022-1
12	**1.575** 40.00	**1.591** 40.41	**1.299** 33.00	3-1445057-2	3-1445091-2	3-1445100-2	1-1445022-2

*Always consult customer drawing for PC Board layout dimensions.

Note: All part numbers are RoHS Compliant.

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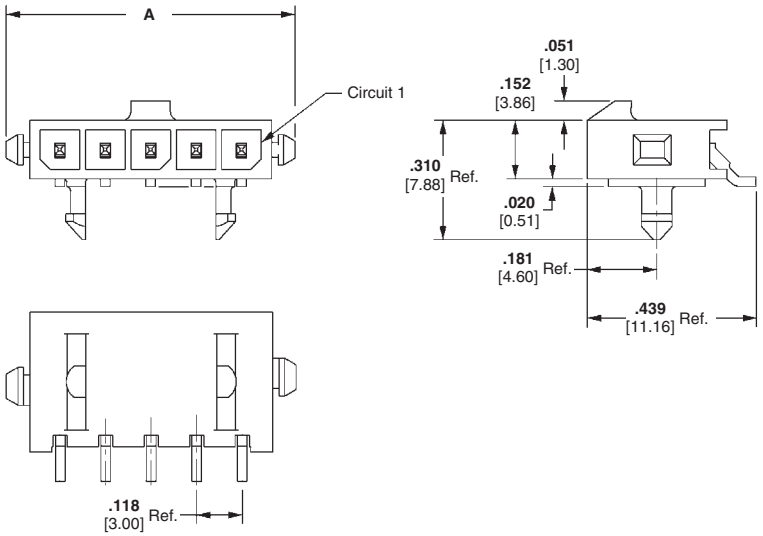
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UK: 44-208-420-8341

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

Right-Angle Header Assemblies (Continued)

Single Row, Surface Mount, with Plastic Boardlock



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

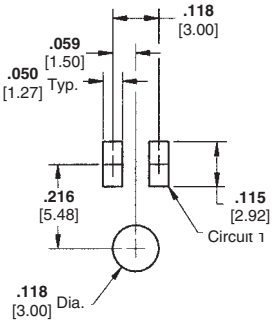
Plating B—.000015 [0.00038] gold in mating area, .000100 [0.00254] min. tin in solder area, with entire contact underplated .000050 [0.00127] min. nickel

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

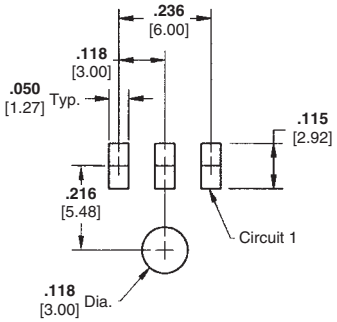
Related Product Data

Mateable Housings:

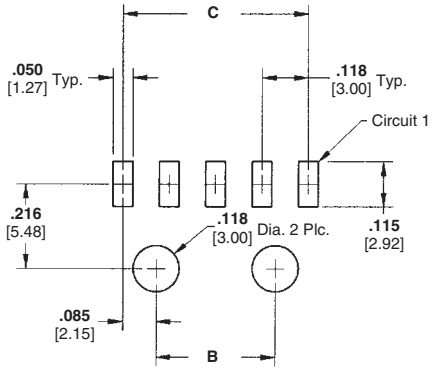
Single Row Receptacle Housing—page 23



Recommended PC Board Layout * 2 Position



Recommended PC Board Layout * 3 Position



Recommended PC Board Layout* 4-12 Positions

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	—	—	2-1445058-2	2-1445092-2	2-1445101-2	1445022-2
3	**.512** 13.00	—	—	2-1445058-3	2-1445092-3	2-1445101-3	1445022-3
4	**.630** 16.00	**.185** 4.70	**.354** 9.00	2-1445058-4	2-1445092-4	2-1445101-4	1445022-4
5	**.748** 19.00	**.303** 7.70	**.472** 12.00	2-1445058-5	2-1445092-5	2-1445101-5	1445022-5
6	**.866** 22.00	**.421** 10.70	**.591** 15.00	2-1445058-6	2-1445092-6	2-1445101-6	1445022-6
7	**.984** 25.00	**.539** 13.70	**.709** 18.00	2-1445058-7	2-1445092-7	2-1445101-7	1445022-7
8	**1.102** 28.00	**.657** 16.70	**.827** 21.00	2-1445058-8	2-1445092-8	2-1445101-8	1445022-8
9	**1.220** 31.00	**.776** 19.70	**.945** 24.00	2-1445058-9	2-1445092-9	2-1445101-9	1445022-9
10	**1.339** 34.00	**.894** 22.70	**1.063** 27.00	3-1445058-0	3-1445092-0	3-1445101-0	1-1445022-0
11	**1.457** 37.00	**1.012** 25.70	**1.181** 30.00	3-1445058-1	3-1445092-1	3-1445101-1	1-1445022-1
12	**1.575** 40.00	**1.130** 28.70	**1.299** 33.00	3-1445058-2	3-1445092-2	3-1445101-2	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.

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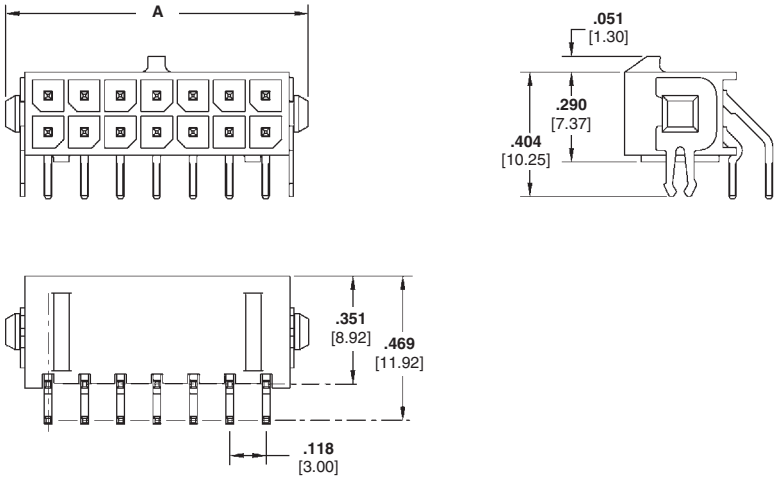
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UK: 44-208-420-8341

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

Right-Angle Header Assemblies (Continued)

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



Recommended PC Board Layout*

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

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	—	3-794677-2	3-794678-2	3-794679-2	794617-2
4	**.394** 10.00	**.287** 7.30	**.118** 3.00	3-794677-4	3-794678-4	3-794679-4	794617-4
6	**.512** 13.00	**.406** 10.30	**.236** 6.00	3-794677-6	3-794678-6	3-794679-6	794617-6
8	**.630** 16.00	**.524** 13.30	**.354** 9.00	3-794677-8	3-794678-8	3-794679-8	794617-8
10	**.748** 19.00	**.642** 16.30	**.472** 12.00	4-794677-0	4-794678-0	4-794679-0	1-794617-0
12	**.866** 22.00	**.760** 19.30	**.591** 15.00	4-794677-2	4-794678-2	4-794679-2	1-794617-2
14	**.984** 25.00	**.878** 22.30	**.709** 18.00	4-794677-4	4-794678-4	4-794679-4	1-794617-4
16	**1.102** 28.00	**.996** 25.30	**.827** 21.00	4-794677-6	4-794678-6	4-794679-6	1-794617-6
18	**1.220** 31.00	**1.114** 28.30	**.945** 24.00	4-794677-8	4-794678-8	4-794679-8	1-794617-8
20	**1.339** 34.00	**1.232** 31.30	**1.063** 27.00	5-794677-0	5-794678-0	5-794679-0	2-794617-0
22	**1.457** 37.00	**1.350** 34.30	**1.181** 30.00	5-794677-2	5-794678-2	5-794679-2	2-794617-2
24	**1.575** 40.00	**1.469** 37.30	**1.299** 33.00	5-794677-4	5-794678-4	5-794679-4	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.

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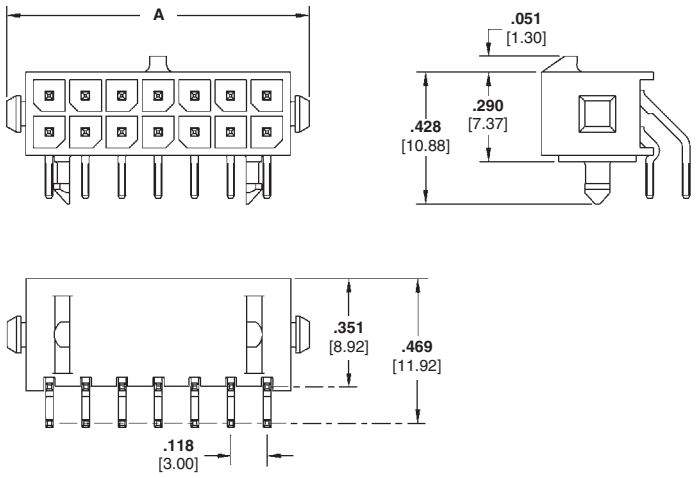
USA: 1-800-522-6752
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Micro MATE-N-LOK 3mm Connector System (Continued)

Right-Angle Header Assemblies (Continued)

Dual Row, Through-Hole, with Plastic Boardlock



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

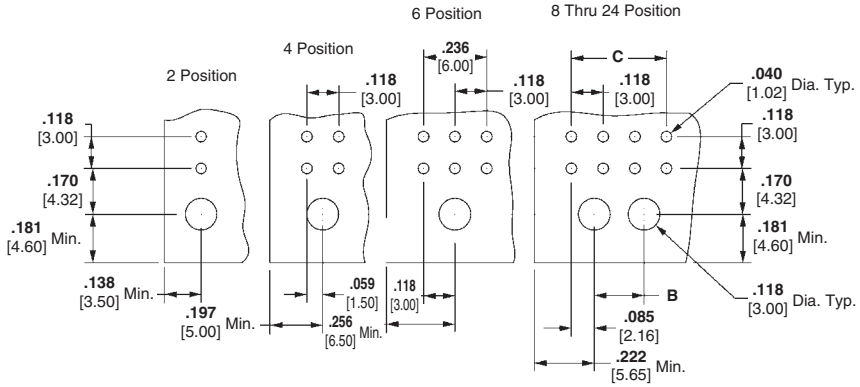
Plating B—.000015 [0.00038] gold in mating area, .000100 [0.00254] min. tin in solder area, with entire contact underplated .000050 [0.00127] min. nickel

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:

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	—	—	3-794618-2	3-794619-2	3-794620-2	794617-2
4	**.394** 10.00	—	**.118** 3.00	3-794618-4	3-794619-4	3-794620-4	794617-4
6	**.512** 13.00	—	**.236** 6.00	3-794618-6	3-794619-6	3-794620-6	794617-6
8	**.630** 16.00	**.185** 4.70	**.354** 9.00	3-794618-8	3-794619-8	3-794620-8	794617-8
10	**.748** 19.00	**.303** 7.70	**.472** 12.00	4-794618-0	4-794619-0	4-794620-0	1-794617-0
12	**.866** 22.00	**.421** 10.70	**.591** 15.00	4-794618-2	4-794619-2	4-794620-2	1-794617-2
14	**.984** 25.00	**.539** 13.70	**.709** 18.00	4-794618-4	4-794619-4	4-794620-4	1-794617-4
16	**1.102** 28.00	**.657** 16.70	**.827** 21.00	4-794618-6	4-794619-6	4-794620-6	1-794617-6
18	**1.220** 31.00	**.776** 19.70	**.945** 24.00	4-794618-8	4-794619-8	4-794620-8	1-794617-8
20	**1.339** 34.00	**.894** 22.70	**1.063** 27.00	5-794618-0	5-794619-0	5-794620-0	2-794617-0
22	**1.457** 37.00	**1.012** 25.70	**1.181** 30.00	5-794618-2	5-794619-2	5-794620-2	2-794617-2
24	**1.575** 40.00	**1.130** 28.70	**1.299** 33.00	5-794618-4	5-794619-4	5-794620-4	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.

Catalog 82181
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Micro MATE-N-LOK 3mm Connector System (Continued)

Right-Angle 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

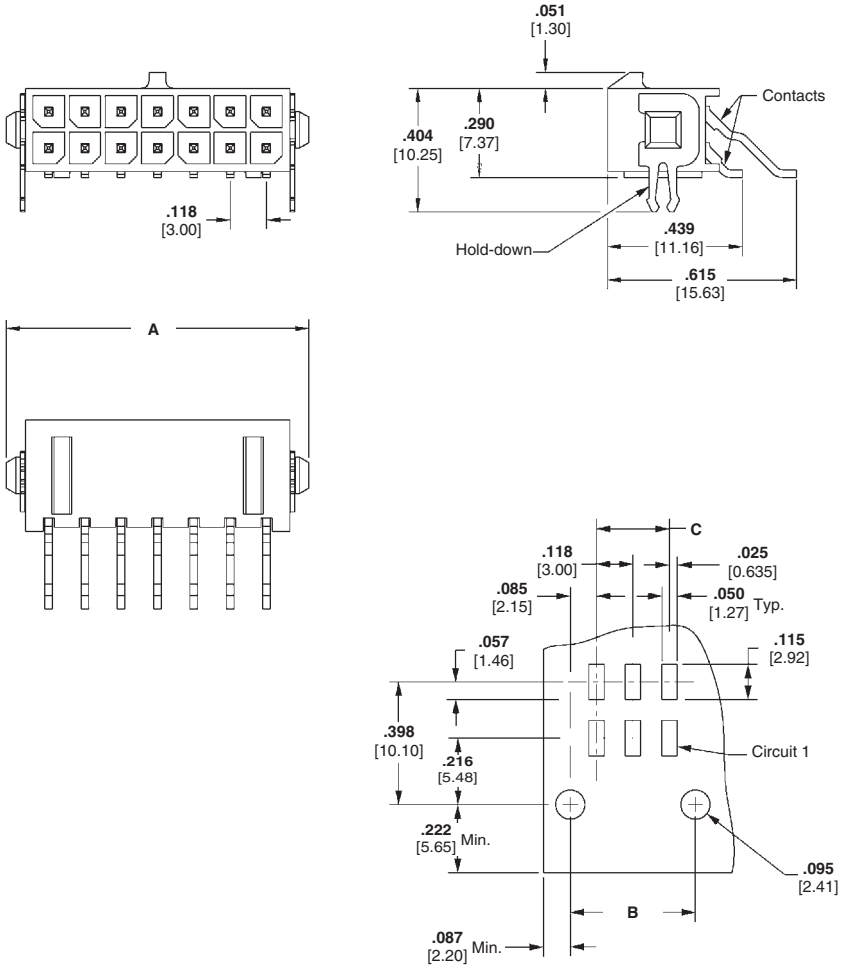
Plating C—.000030 [0.00076] gold in mating area, .000100 [0.00254] min. tin in solder area, with entire contact underplated .000050 [0.00127] min. nickel

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

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	—	3-794624-2	3-794625-2	3-794626-2	794617-2
4	**.394** 10.00	**.287** 7.30	**.118** 3.00	3-794624-4	3-794625-4	3-794626-4	794617-4
6	**.512** 13.00	**.406** 10.30	**.236** 6.00	3-794624-6	3-794625-6	3-794626-6	794617-6
8	**.630** 16.00	**.524** 13.30	**.354** 9.00	3-794624-8	3-794625-8	3-794626-8	794617-8
10	**.748** 19.00	**.642** 16.30	**.472** 12.00	4-794624-0	4-794625-0	4-794626-0	1-794617-0
12	**.866** 22.00	**.760** 19.30	**.591** 15.00	4-794624-2	4-794625-2	4-794626-2	1-794617-2
14	**.984** 25.00	**.878** 22.30	**.709** 18.00	4-794624-4	4-794625-4	4-794626-4	1-794617-4
16	**1.102** 28.00	**.996** 25.30	**.827** 21.00	4-794624-6	4-794625-6	4-794626-6	1-794617-6
18	**1.220** 31.00	**1.114** 28.30	**.945** 24.00	4-794624-8	4-794625-8	4-794626-8	1-794617-8
20	**1.339** 34.00	**1.232** 31.30	**1.063** 27.00	5-794624-0	5-794625-0	5-794626-0	2-794617-0
22	**1.457** 37.00	**1.350** 34.30	**1.181** 30.00	5-794624-2	5-794625-2	5-794626-2	2-794617-2
24	**1.575** 40.00	**1.469** 37.30	**1.299** 33.00	5-794624-4	5-794625-4	5-794626-4	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.

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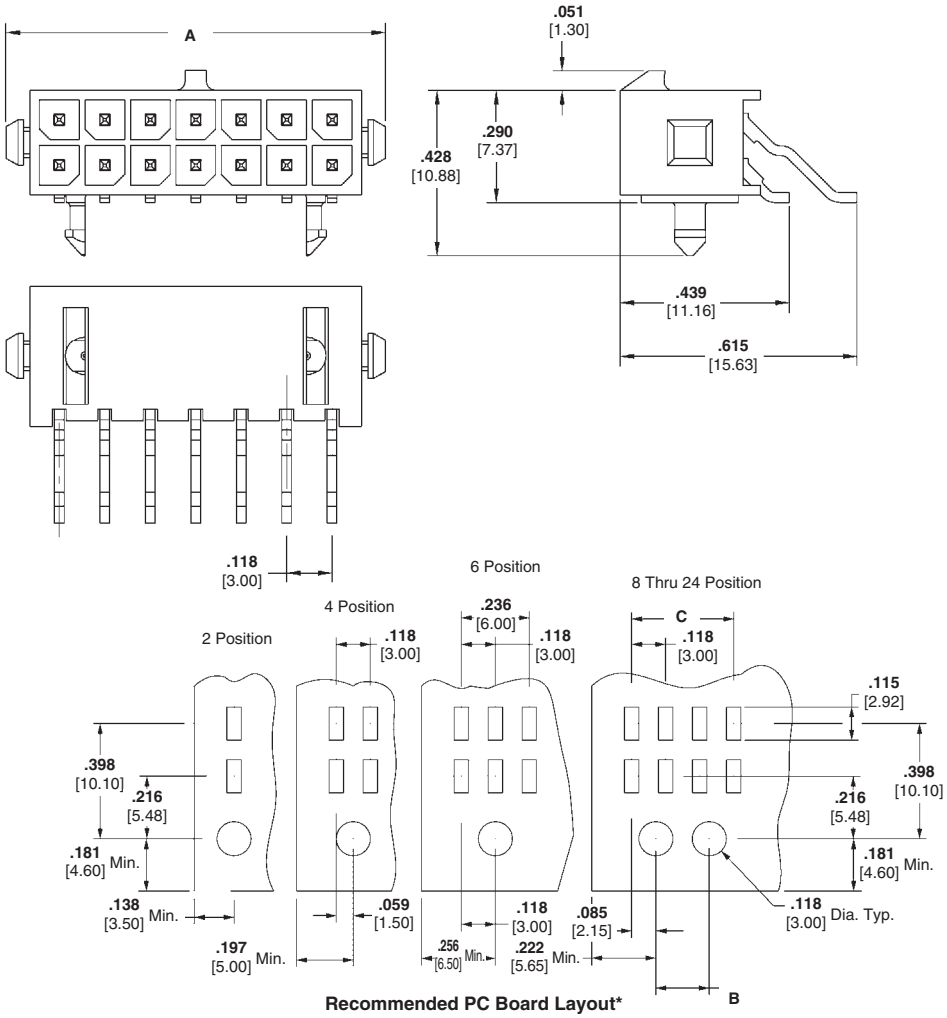
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Micro MATE-N-LOK 3mm Connector System (Continued)

Right-Angle Header Assemblies (Continued)

Dual Row, Surface Mount, with Plastic Boardlock



Recommended PC Board Layout*

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:

Dual Row Receptacle Housing—page 24

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	—	—	3-794621-2	3-794622-2	3-794623-2	794617-2
4	**.394** 10.00	—	**.118** 3.00	3-794621-4	3-794622-4	3-794623-4	794617-4
6	**.512** 13.00	—	**.236** 6.00	3-794621-6	3-794622-6	3-794623-6	794617-6
8	**.630** 16.00	**.185** 4.70	**.354** 9.00	3-794621-8	3-794622-8	3-794623-8	794617-8
10	**.748** 19.00	**.303** 7.70	**.472** 12.00	4-794621-0	4-794622-0	4-794623-0	1-794617-0
12	**.866** 22.00	**.421** 10.70	**.591** 15.00	4-794621-2	4-794622-2	4-794623-2	1-794617-2
14	**.984** 25.00	**.539** 13.70	**.709** 18.00	4-794621-4	4-794622-4	4-794623-4	1-794617-4
16	**1.102** 28.00	**.657** 16.70	**.827** 21.00	4-794621-6	4-794622-6	4-794623-6	1-794617-6
18	**1.220** 31.00	**.776** 19.70	**.945** 24.00	4-794621-8	4-794622-8	4-794623-8	1-794617-8
20	**1.339** 34.00	**.894** 22.70	**1.063** 27.00	5-794621-0	5-794622-0	5-794623-0	2-794617-0
22	**1.457** 37.00	**1.012** 25.70	**1.181** 30.00	5-794621-2	5-794622-2	5-794623-2	2-794617-2
24	**1.575** 40.00	**1.130** 28.70	**1.299** 33.00	5-794621-4	5-794622-4	5-794623-4	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.

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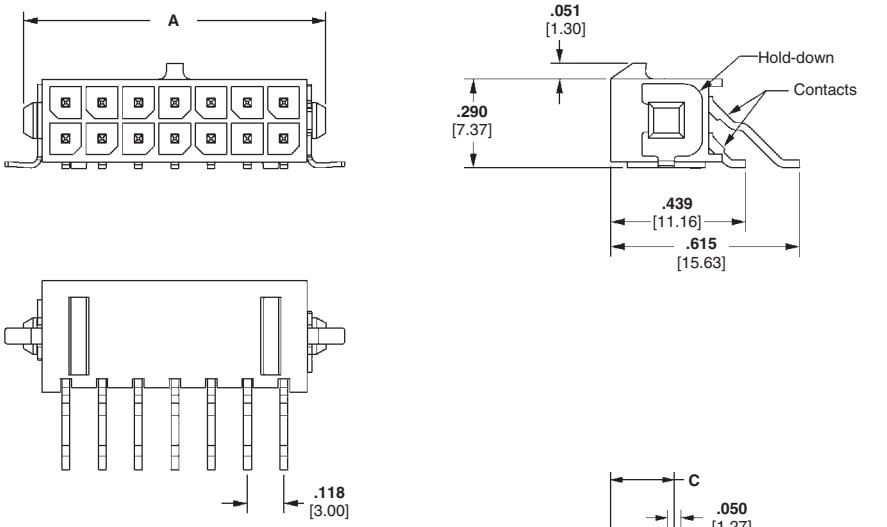
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Micro MATE-N-LOK 3mm Connector System (Continued)

Right-Angle 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

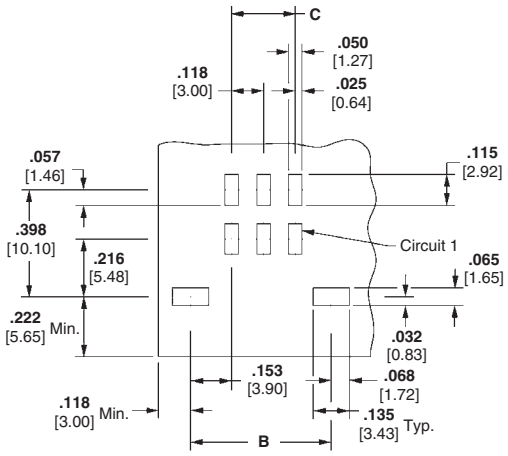
Plating C—.000030 [0.00076] gold in mating area, .000100 [0.00254] min. tin in solder area, with entire contact underplated .000050 [0.00127] min. nickel

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

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	**.276** 7.27	—	3-794627-2	3-794628-2	3-794629-2	794617-2
4	**.394** 10.00	**.394** 10.27	**.118** 3.00	3-794627-4	3-794628-4	3-794629-4	794617-4
6	**.512** 13.00	**.512** 13.27	**.236** 6.00	3-794627-6	3-794628-6	3-794629-6	794617-6
8	**.630** 16.00	**.630** 16.27	**.354** 9.00	3-794627-8	3-794628-8	3-794629-8	794617-8
10	**.748** 19.00	**.748** 19.27	**.472** 12.00	4-794627-0	4-794628-0	4-794629-0	1-794617-0
12	**.866** 22.00	**.866** 22.27	**.591** 15.00	4-794627-2	4-794628-2	4-794629-2	1-794617-2
14	**.984** 25.00	**.984** 25.27	**.709** 18.00	4-794627-4	4-794628-4	4-794629-4	1-794617-4
16	**1.102** 28.00	**1.102** 28.27	**.827** 21.00	4-794627-6	4-794628-6	4-794629-6	1-794617-6
18	**1.220** 31.00	**1.220** 31.27	**.945** 24.00	4-794627-8	4-794628-8	4-794629-8	1-794617-8
20	**1.339** 34.00	**1.339** 34.27	**1.063** 27.00	5-794627-0	5-794628-0	5-794629-0	2-794617-0
22	**1.457** 37.00	**1.457** 37.27	**1.181** 30.00	5-794627-2	5-794628-2	5-794629-2	2-794617-2
24	**1.575** 40.00	**1.575** 40.27	**1.299** 33.00	5-794627-4	5-794628-4	5-794629-4	2-794617-4

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