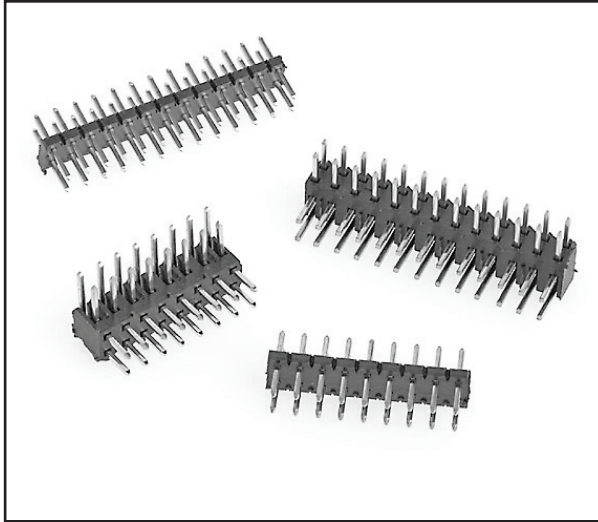


3M™ Pin Strip Header

2 mm × 2 mm Solder Tail Straight & Right Angle, Surface Mount Straight

1512 Series



- Mates with a variety of dual row 2 mm board mount and wire mount sockets
- High temperature insulator compatible with lead-free solder processes
- Extensive pin count availability from 4 to 80 positions
- Available with vacuum cap in tape and reel packaging for automatic placement
- Minimizes use of PC board space
- End and side stackable design
- RoHS Compliant. See the Regulatory Information Appendix (RIA) in the “RoHS Compliance” section of www.3Mconnectors.com for compliance information (RIA E1 & C1 apply)

Date Modified: January 14, 2013

TS-0808-H
Sheet 1 of 4

Physical

Insulation:

Material: Glass-filled LCP

Flammability: UL 94V-0

Color: Black

Contact:

Material: Copper Alloy

Plating:

Underplating: 50 μ" [1.27 μm] Nickel

Wiping Area: 30 μ" [0.76 μm] Gold Avg.

Solder Tails: 200-300 μ" [5.08-7.62 μm] Matte Tin

Marking: None

Electrical

Current Rating: 3.50 A, 1 Line Powered

1.75 A, 6 Adjacent Lines Powered

1.00 A, All Lines Powered

Rating Conditions: EIA-364-070 Method 2, 30°C maximum temperature rise, 20% derated. Reference appropriate 3M Product Specification for detailed current derating curves.

Insulation Resistance: $> 1 \times 10^9 \Omega$ at 250 V_{DC}

Withstanding Voltage: 500 V_{RMS} at Sea Level

Environmental

Temperature Rating: -55°C to +105°C

Process Rating: Maximum 260°C (per J-STD-020C)

Moisture Sensitivity Level: 1 (per J-STD-020C)

UL File No.: E68080

3M

Electronic Solutions Division
Interconnect Solutions
<http://www.3Mconnectors.com>

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For technical, sales or ordering information call
800-225-5373

3M™ Pin Strip Header

2 mm × 2 mm Solder Tail Straight & Right Angle, Surface Mount Straight

1512 Series

Straight



Recommended Mounting Hole Pattern



Pin Cross Section

| Contact Quantity | Dimension C |
|------------------|--------------|
| 04 | 0.157 [4.0] |
| 06 | 0.236 [6.0] |
| 08 | 0.315 [8.0] |
| 10 | 0.394 [10.0] |
| 12 | 0.472 [12.0] |
| 14 | 0.551 [14.0] |
| 16 | 0.63 [16.0] |
| 18 | 0.709 [18.0] |
| 20 | 0.787 [20.0] |
| 22 | 0.866 [22.0] |
| 24 | 0.945 [24.0] |
| 26 | 1.024 [26.0] |
| 28 | 1.102 [28.0] |
| 30 | 1.181 [30.0] |
| 32 | 1.26 [32.0] |
| 34 | 1.339 [34.0] |
| 36 | 1.417 [36.0] |
| 38 | 1.496 [38.0] |
| 40 | 1.575 [40.0] |
| 42 | 1.654 [42.0] |
| 44 | 1.732 [44.0] |
| 46 | 1.811 [46.0] |
| 48 | 1.89 [48.0] |
| 50 | 1.969 [50.0] |
| 52 | 2.047 [52.0] |
| 54 | 2.126 [54.0] |
| 56 | 2.205 [56.0] |
| 58 | 2.283 [58.0] |
| 60 | 2.362 [60.0] |
| 80 | 3.15 [80.0] |

mm
[Inch]

| Tolerance Unless Noted | | |
|------------------------|--------|-------|
| | in. | mm |
| 0.X | - | ±0.5 |
| 0.XX | ±0.01 | ±0.25 |
| 0.XXX | ±0.005 | ±0.13 |

[] Dimensions for Reference Only



Ordering Information

1512XX-8X22-RB (RIA E1 & C1 Apply)

Contact Quantity
(See Table 1)

Pin Length
Dim 'A'
3 = .130"
4 = .152"

TS-0808-H
Sheet 2 of 4

3M™ Pin Strip Header

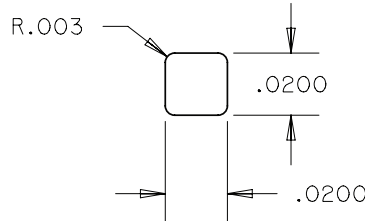
2 mm × 2 mm Solder Tail Straight & Right Angle, Surface Mount Straight

1512 Series

Right Angle



Recommended Mounting Hole Pattern



Pin Cross Section

| Contact Quantity | Dimension C |
|------------------|--------------|
| 04 | 0.157 [4.0] |
| 06 | 0.236 [6.0] |
| 08 | 0.315 [8.0] |
| 10 | 0.394 [10.0] |
| 12 | 0.472 [12.0] |
| 14 | 0.551 [14.0] |
| 16 | 0.63 [16.0] |
| 18 | 0.709 [18.0] |
| 20 | 0.787 [20.0] |
| 22 | 0.866 [22.0] |
| 24 | 0.945 [24.0] |
| 26 | 1.024 [26.0] |
| 28 | 1.102 [28.0] |
| 30 | 1.181 [30.0] |
| 32 | 1.26 [32.0] |
| 34 | 1.339 [34.0] |
| 36 | 1.417 [36.0] |
| 38 | 1.496 [38.0] |
| 40 | 1.575 [40.0] |
| 42 | 1.654 [42.0] |
| 44 | 1.732 [44.0] |
| 46 | 1.811 [46.0] |
| 48 | 1.89 [48.0] |
| 50 | 1.969 [50.0] |
| 52 | 2.047 [52.0] |
| 54 | 2.126 [54.0] |
| 56 | 2.205 [56.0] |
| 58 | 2.283 [58.0] |
| 60 | 2.362 [60.0] |
| 80 | 3.15 [80.0] |

mm
[Inch]

| Tolerance Unless Noted | | |
|------------------------|-------------|------------|
| | in. | mm |
| 0.X | - | ± 0.5 |
| 0.XX | ± 0.01 | ± 0.25 |
| 0.XXX | ± 0.005 | ± 0.13 |

[] Dimensions for Reference Only



Ordering Information

1512XX-7X22-RB (RIA E1 & C1 Apply)

Contact Quantity
(See Table 1)

Pin Length
Dim 'A'
3 = .130"
4 = .152"

TS-0808-H
Sheet 3 of 4

3M™ Pin Strip Header

2 mm x 2 mm Solder Tail Straight & Right Angle, Surface Mount Straight

1512 Series



| Contact Quantity | Dimension C | Tape Width | Order Code |
|------------------|--------------|------------|------------|
| 04 | 0.157 [4.0] | n/a | n/a |
| 06 | 0.236 [6.0] | n/a | n/a |
| 08 | 0.315 [8.0] | 24 mm | WB |
| 10 | 0.394 [10.0] | 24 mm | WC |
| 12 | 0.472 [12.0] | 24 mm | WC |
| 14 | 0.551 [14.0] | 24 mm | WC |
| 16 | 0.63 [16.0] | 24 mm | WC |
| 18 | 0.709 [18.0] | 32 mm | WC |
| 20 | 0.787 [20.0] | 32 mm | WC |
| 22 | 0.866 [22.0] | 44 mm | WD |
| 24 | 0.945 [24.0] | 44 mm | WD |
| 26 | 1.024 [26.0] | 44 mm | WD |
| 28 | 1.102 [28.0] | 44 mm | WD |
| 30 | 1.181 [30.0] | 44 mm | WD |
| 32 | 1.26 [32.0] | 56 mm | WE |
| 34 | 1.339 [34.0] | 56 mm | WE |
| 36 | 1.417 [36.0] | 56 mm | WE |
| 38 | 1.496 [38.0] | 56 mm | WE |
| 40 | 1.575 [40.0] | 56 mm | WE |
| 42 | 1.654 [42.0] | 56 mm | WE |
| 44 | 1.732 [44.0] | 72 mm | WF |
| 46 | 1.811 [46.0] | 72 mm | WF |
| 48 | 1.89 [48.0] | 72 mm | WF |
| 50 | 1.969 [50.0] | 72 mm | WF |
| 52 | 2.047 [52.0] | 72 mm | WF |
| 54 | 2.126 [54.0] | 72 mm | WF |
| 56 | 2.205 [56.0] | 72 mm | WF |
| 58 | 2.283 [58.0] | 88 mm | WG |
| 60 | 2.362 [60.0] | 88 mm | WG |
| 80 | 3.15 [80.0] | n/a | n/a |

Notes: 1. Tape & reel include vacuum pick-up cap for pick n place handling equipment.
2. Parts in tray packaging are supplied without vacuum cap.

mm
[Inch]

| Tolerance Unless Noted | | |
|------------------------|--------|-------|
| | in. | mm |
| 0.X | - | ±0.5 |
| 0.XX | ±0.01 | ±0.25 |
| 0.XXX | ±0.005 | ±0.13 |

[] Dimensions for Reference Only



Ordering Information

1512XX-2X20-RB-XX (RIA E1 & C1 Apply)

Contact Quantity
(See Table 1)

Pin Length
Dim 'A'
3 = .130"
4 = .152"

Packaging suffix:
Blank = Tray Packaging
WX = Tape & Reel Packaging
(see table 1)

TS-0808-H
Sheet 4 of 4

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RIA-2217B-E

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JONHON

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