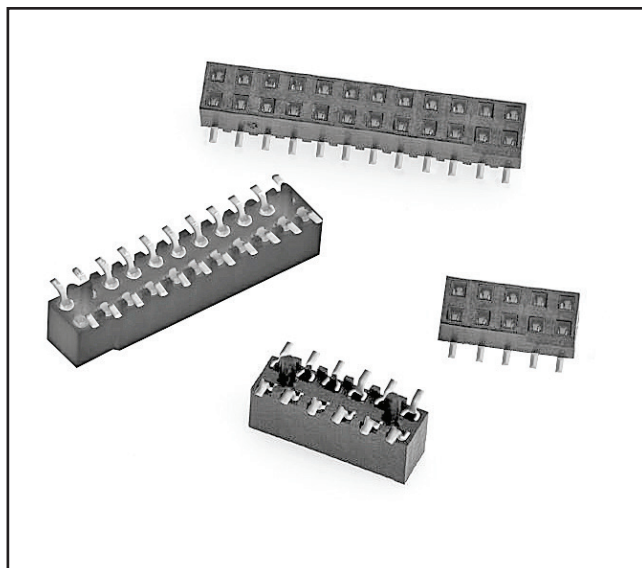


# 3M™ Boardmount Socket

2 mm x 2 mm Straight Surface Mount, Straight and Right Angle Plated Through-Hole 1502 Series



- High Temperature Insulator
- Reflow Solder Compatible
- Low height helps minimize PCB stack height
- End Stackable
- Thru-hole versions are side stackable
- SMT parts are available in tape and reel pack with vacuum cap for automated placement applications
- See the Regulatory Information Appendix (RIA) in the “RoHS compliance” section of [www.3mconnectors.com](http://www.3mconnectors.com) for compliance information (RIA E1 & C1 apply)

Date Modified: February 24, 2014

TS-0519-J  
Sheet 1 of 4

---

## Physical

### Insulation:

Material: High Temperature Thermoplastic

### Contact:

Material: Copper alloy

### Plating:

Underplating: 1.27-3.81  $\mu\text{m}$  [ 50-150  $\mu\text{in}$  ] Nickel overall

Wiping Area: 0.76  $\mu\text{m}$  [ 30  $\mu\text{in}$  ] Gold

Solder Tails: 5.1  $\mu\text{m}$  [ 200  $\mu\text{in}$  ] Matte tin (RIA E1 & C1 apply)

**Marking:** Orientation delta and 3M Logo (except surface mount)

---

## Electrical

**Current Rating:** 1 A

**Voltage Rating:** 150 V<sub>AC</sub> per EIA-364-20

**Insulation Resistance:**  $> 1 \times 10^9 \Omega$  at 250 V<sub>DC</sub>

**Withstanding Voltage:** 500 V<sub>DC</sub> 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



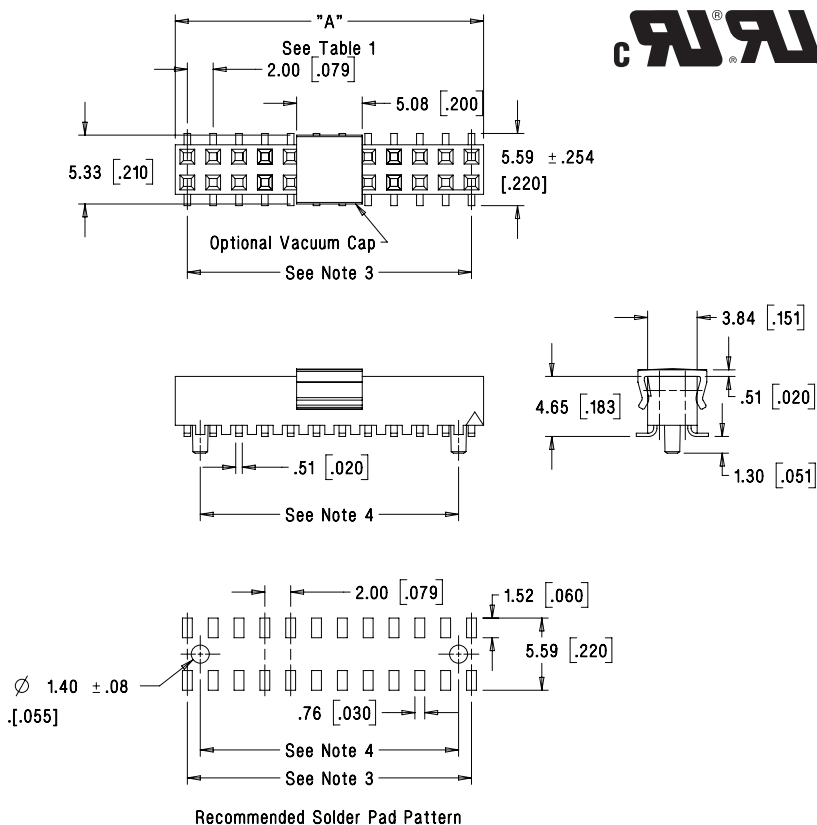
Electronic Solutions Division  
Interconnect Solutions  
<http://www.3Mconnectors.com>

3M is a trademark of 3M Company.  
For technical, sales or ordering information call  
**800-225-5373**

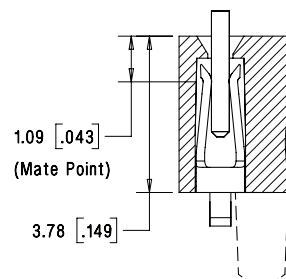
# 3M™ Boardmount Socket

2 mm x 2 mm Straight Surface Mount, Straight and Right Angle Plated Through-Hole 1502 Series

| Table 1          |               |            |            |
|------------------|---------------|------------|------------|
| Contact Quantity | Dimension A   | Tape Width | Order Code |
| 04               | 3.96 [0.156]  | n/a        | n/a        |
| 06               | 5.87 [0.231]  | n/a        | n/a        |
| 08               | 7.87 [0.310]  | 24 mm      | WB         |
| 10               | 9.88 [0.389]  | 24 mm      | WB         |
| 12               | 11.86 [0.467] | 24 mm      | WB         |
| 14               | 13.87 [0.546] | 24 mm      | WB         |
| 16               | 15.88 [0.625] | 24 mm      | WB         |
| 18               | 17.88 [0.704] | 44 mm      | WD         |
| 20               | 19.86 [0.782] | 44 mm      | WD         |
| 22               | 21.87 [0.861] | 44 mm      | WD         |
| 24               | 23.88 [0.940] | 44 mm      | WD         |
| 26               | 25.88 [1.019] | 44 mm      | WD         |
| 28               | 27.86 [1.097] | 44 mm      | WD         |
| 30               | 29.87 [1.176] | 44 mm      | WD         |
| 32               | 31.88 [1.255] | 56 mm      | WE         |
| 34               | 33.88 [1.334] | 56 mm      | WE         |
| 36               | 35.86 [1.412] | 56 mm      | WE         |
| 38               | 37.87 [1.491] | 56 mm      | WE         |
| 40               | 39.88 [1.570] | 56 mm      | WE         |
| 42               | 41.88 [1.649] | 56 mm      | WE         |
| 44               | 43.87 [1.727] | 72 mm      | WF         |
| 46               | 45.87 [1.806] | 72 mm      | WF         |
| 48               | 47.88 [1.885] | 72 mm      | WF         |
| 50               | 49.89 [1.964] | 72 mm      | WF         |
| 52               | 51.87 [2.042] | 72 mm      | WF         |
| 54               | 53.87 [2.121] | 72 mm      | WF         |
| 56               | 55.88 [2.200] | 72 mm      | WF         |
| 58               | 57.86 [2.278] | 88 mm      | WG         |
| 60               | 59.87 [2.357] | 88 mm      | WG         |



| mm<br>[Inch]                      |        |
|-----------------------------------|--------|
| Tolerance Unless Noted            |        |
| .0                                | .00    |
| mm ± 2.54                         | ± .127 |
| [ ] Dimensions for Reference only |        |



Note: Mate point same for all board mount types.

## 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.
3. Positions per row, subtract 1, multiply by 2 mm spacing.
4. Optional locator posts: Positions per row, multiply by 2 mm, then subtract 4 mm.

\*\*Optional Locator Posts available for positions eight and greater.

## Ordering Information

**1502XX-20X0-RB-XX**

Number of positions  
(See Table 1)

Board Location Post  
0 = None (Standard)  
2 = With board location post  
(Special order)

Packaging style:  
Blank = tray packaging  
WX = tape & reel pkg (see Table 1 for  
ordering code)

TS-0519-J  
Sheet 2 of 4



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

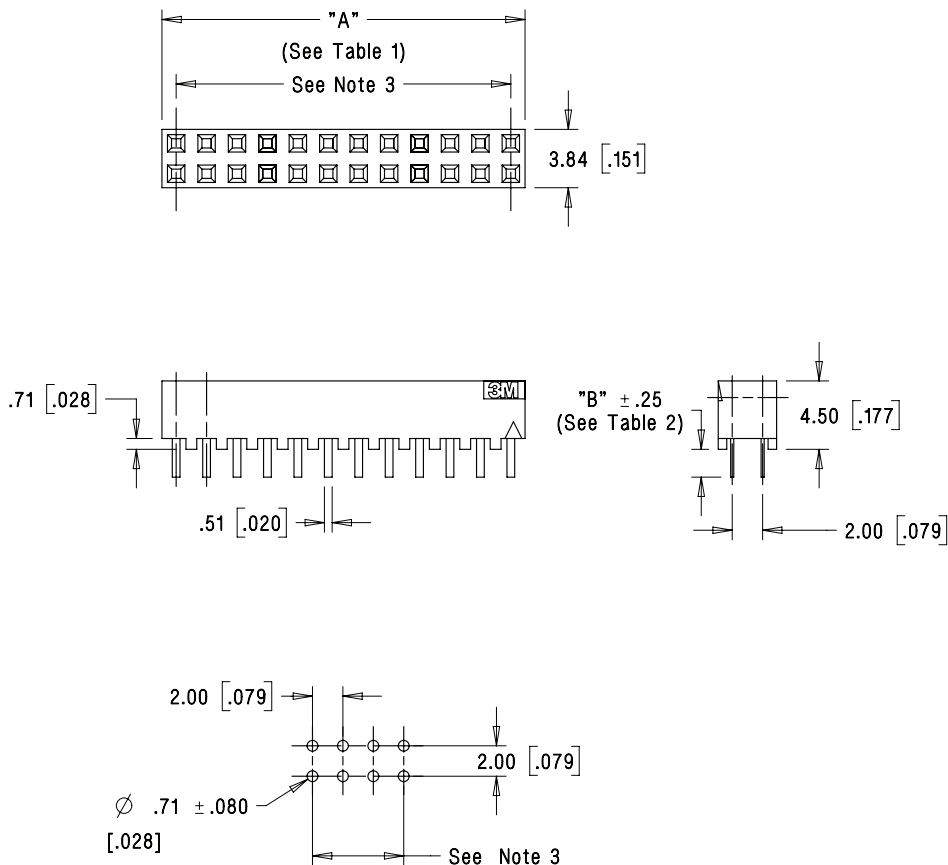
3M is a trademark of 3M Company.  
For technical, sales or ordering information call  
**800-225-5373**

# 3M™ Boardmount Socket

2 mm x 2 mm Straight Surface Mount, Straight and Right Angle Plated Through-Hole 1502 Series



| Table 1          |               |
|------------------|---------------|
| Contact Quantity | Dimension A   |
| 04               | 3.96 [0.156]  |
| 06               | 5.87 [0.231]  |
| 08               | 7.87 [0.310]  |
| 10               | 9.88 [0.389]  |
| 12               | 11.86 [0.467] |
| 14               | 13.87 [0.546] |
| 16               | 15.88 [0.625] |
| 18               | 17.88 [0.704] |
| 20               | 19.86 [0.782] |
| 22               | 21.87 [0.861] |
| 24               | 23.88 [0.940] |
| 26               | 25.88 [1.019] |
| 28               | 27.86 [1.097] |
| 30               | 29.87 [1.176] |
| 32               | 31.88 [1.255] |
| 34               | 33.88 [1.334] |
| 36               | 35.86 [1.412] |
| 38               | 37.87 [1.491] |
| 40               | 39.88 [1.570] |
| 42               | 41.88 [1.649] |
| 44               | 43.87 [1.727] |
| 46               | 45.87 [1.806] |
| 48               | 47.88 [1.885] |
| 50               | 49.89 [1.964] |
| 52               | 51.87 [2.042] |
| 54               | 53.87 [2.121] |
| 56               | 55.88 [2.200] |
| 58               | 57.86 [2.278] |
| 60               | 59.87 [2.357] |



| mm<br>[Inch]           |        |        |      |
|------------------------|--------|--------|------|
| Tolerance Unless Noted |        |        |      |
|                        | .0     | .00    | .000 |
| mm                     | ± 2.54 | ± .254 | ±    |

[ ] Dimensions for Reference only

## Recommended Hole Pattern

## Ordering Information

**1502XX-600X-RB**

Number of positions  
(See Table 1)

Solder Tail Length  
Dimension B  
1 = .14 mm (Special order)  
2 = 2.54 mm (Standard)

TS-0519-J  
Sheet 3 of 4



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

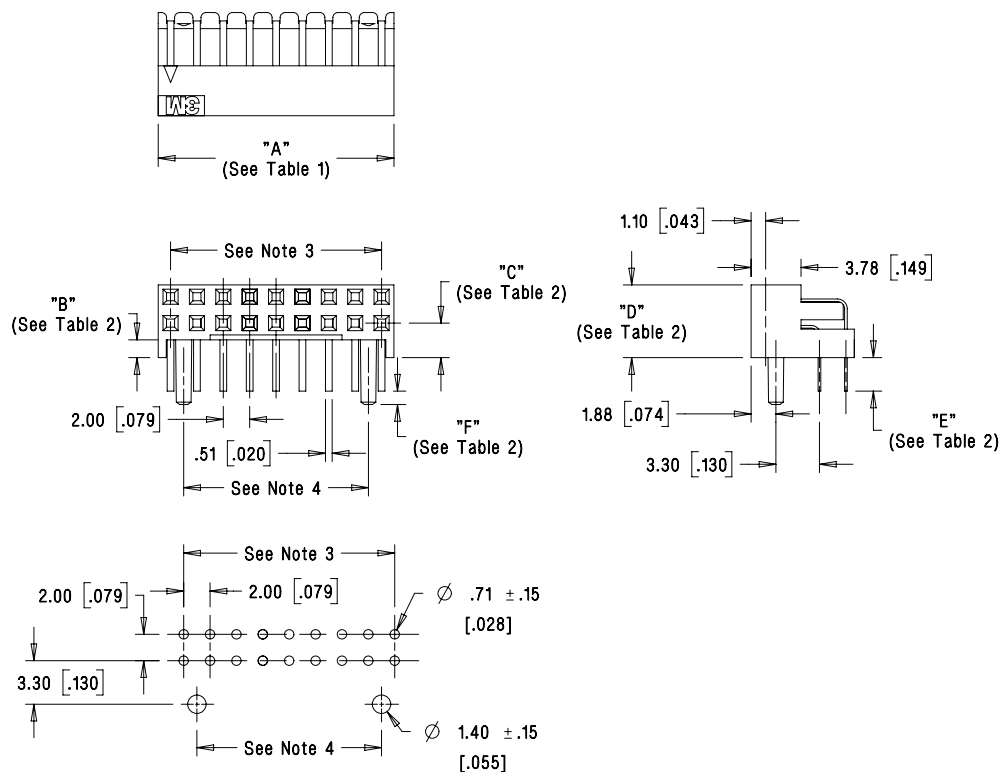
3M is a trademark of 3M Company.  
For technical, sales or ordering information call  
**800-225-5373**

# 3M™ Boardmount Socket

2 mm x 2 mm Straight Surface Mount, Straight and Right Angle Plated Through-Hole 1502 Series



| Table 1          |               |
|------------------|---------------|
| Contact Quantity | Dimension A   |
| 08               | 7.87 [0.310]  |
| 10               | 9.88 [0.389]  |
| 12               | 11.86 [0.467] |
| 14               | 13.87 [0.546] |
| 16               | 15.88 [0.625] |
| 18               | 17.88 [0.704] |
| 20               | 19.86 [0.782] |
| 22               | 21.87 [0.861] |
| 24               | 23.88 [0.940] |
| 26               | 25.88 [1.019] |
| 28               | 27.86 [1.097] |
| 30               | 29.87 [1.176] |
| 32               | 31.88 [1.255] |
| 34               | 33.88 [1.334] |
| 36               | 35.86 [1.412] |
| 38               | 37.87 [1.491] |
| 40               | 39.88 [1.570] |
| 42               | 41.88 [1.649] |
| 44               | 43.87 [1.727] |
| 46               | 45.87 [1.806] |
| 48               | 47.88 [1.885] |
| 50               | 49.89 [1.964] |
| 52               | 51.87 [2.042] |
| 54               | 53.87 [2.121] |
| 56               | 55.88 [2.200] |
| 58               | 57.86 [2.278] |
| 60               | 59.87 [2.357] |



Recommended Hole Pattern

| Table 2              |             |             |             |             |             |
|----------------------|-------------|-------------|-------------|-------------|-------------|
| Standoff Height Code | Dimensions  |             |             |             |             |
|                      | B           | C           | D           | E           | F           |
| 0                    | .015 [0.38] | .065 [1.65] | .179 [4.55] | .100 [2.54] | .040 [1.02] |
| 1                    | .053 [1.35] | .103 [2.62] | .217 [5.51] | .100 [2.54] | .040 [1.02] |
| 2                    | .028 [0.71] | .078 [1.98] | .192 [4.88] | .125 [3.18] | .015 [0.38] |

| mm<br>[Inch]           |            |            |            |
|------------------------|------------|------------|------------|
| Tolerance Unless Noted |            |            |            |
|                        | .0         | .00        | .000       |
| mm                     | $\pm 2.54$ | $\pm .254$ | $\pm .127$ |

[ ] Dimensions for Reference only

## Ordering Information

### 1502XX-5XX2-RB

Number of positions  
(See Table 1)

Standoff Height Code  
(see table 2, Dim B)  
0 = 0.38 mm (Standard)  
1 = 1.135 mm (Special order)  
2 = 0.71 mm (Special order  
- Avail. for 40, 44 and 50  
position only)

Board Location Post  
0=None (Standard)  
2=Board locating Post

TS-0519-J  
Sheet 4 of 4



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

3M is a trademark of 3M Company.  
For technical, sales or ordering information call  
800-225-5373

3M is a trademark of 3M Company.

### **Important Notice**

All statements, technical information, and recommendations related to 3M's products are based on information believed to be reliable, but the accuracy or completeness is not guaranteed. Before using this product, you must evaluate it and determine if it is suitable for your intended application. You assume all risks and liability associated with such use. Any statements related to the product which are not contained in 3M's current publications, or any contrary statements contained on your purchase order shall have no force or effect unless expressly agreed upon, in writing, by an authorized officer of 3M.

### **Warranty; Limited Remedy; Limited Liability.**

This product will be free from defects in material and manufacture for a period of one (1) year from the time of purchase. **3M MAKES NO OTHER WARRANTIES INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.** If this product is defective within the warranty period stated above, your exclusive remedy shall be, at 3M's option, to replace or repair the 3M product or refund the purchase price of the 3M product. **Except where prohibited by law, 3M will not be liable for any indirect, special, incidental or consequential loss or damage arising from this 3M product, regardless of the legal theory asserted.**



### **3M Electronics Solutions Division**

6801 River Place Blvd.  
Austin, TX 78726-9000  
U.S.A.  
1-800-225-5373  
[www.3Mconnectors.com](http://www.3Mconnectors.com)

Please recycle. Printed in USA.  
© 3M 2014. All rights reserved.  
RIA-2217B-E

Компания «Life Electronics» занимается поставками электронных компонентов импортного и отечественного производства от производителей и со складов крупных дистрибьюторов Европы, Америки и Азии.

С конца 2013 года компания активно расширяет линейку поставок компонентов по направлению коаксиальный кабель, кварцевые генераторы и конденсаторы (керамические, пленочные, электролитические), за счёт заключения дистрибьюторских договоров

Мы предлагаем:

- Конкурентоспособные цены и скидки постоянным клиентам.
- Специальные условия для постоянных клиентов.
- Подбор аналогов.
- Поставку компонентов в любых объемах, удовлетворяющих вашим потребностям.
- Приемлемые сроки поставки, возможна ускоренная поставка.
- Доставку товара в любую точку России и стран СНГ.
- Комплексную поставку.
- Работу по проектам и поставку образцов.
- Формирование склада под заказчика.
- Сертификаты соответствия на поставляемую продукцию (по желанию клиента).
- Тестирование поставляемой продукции.
- Поставку компонентов, требующих военную и космическую приемку.
- Входной контроль качества.
- Наличие сертификата ISO.

В составе нашей компании организован Конструкторский отдел, призванный помогать разработчикам, и инженерам.

Конструкторский отдел помогает осуществить:

- Регистрацию проекта у производителя компонентов.
- Техническую поддержку проекта.
- Защиту от снятия компонента с производства.
- Оценку стоимости проекта по компонентам.
- Изготовление тестовой платы монтаж и пусконаладочные работы.



Тел: +7 (812) 336 43 04 (многоканальный)

Email: [org@lifeelectronics.ru](mailto:org@lifeelectronics.ru)

[www.lifeelectronics.ru](http://www.lifeelectronics.ru)