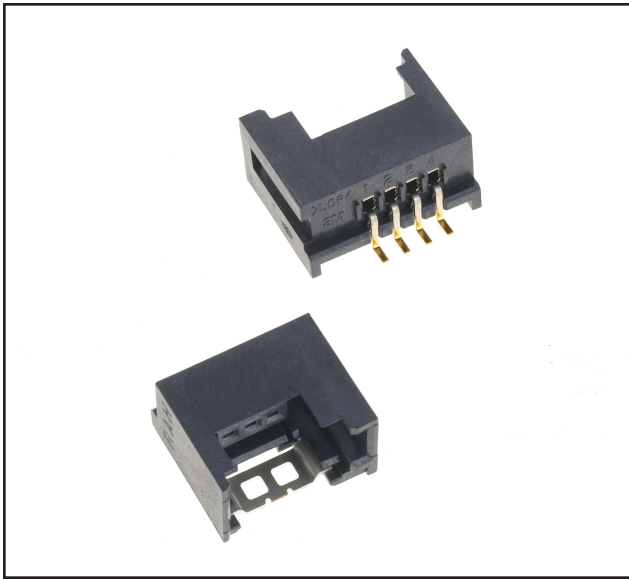


3M™ Mini-Clamp Socket

2 mm, Surfacemount, Right Angle

372 Series



- Low profile design minimizes overall thickness
- Compact design saves board space
- Multiple PCB locating post layouts to ensure competitive compatibility
- Solder tab design helps ensure a reliable solder joint
- Mating Latch feature provides a reliable interconnection in demanding applications
- High number of mating cycles (300)
- Maximum current rating of 3 Amps
- Dust cover accessory available for use in harsh environment - Available in Tape and Reel
- RoHS Compliant. See the Regulatory Information Appendix (RIA) in the “RoHS compliance” section of www.3Mconnector.com for compliance information (RIA E1 & C1 apply)

Date Modified: April 6, 2010

TS-2271-B
Sheet 1 of 4

Physical

Insulation:

Material: LCP
Flammability: UL 94V-0
Color: Black

Contact:

Material: Copper Alloy

Plating:

Underplating: 100 μ" [2.54 μm] Ni
Wiping Area: 0.2 μm [8 μ"] min Gold with Lubricant
Solder Tails: Gold Flash
Solder Tabs: 120 μ" min [3 μm min] Matte Sn over 40 μ" - 120 μ" [1-3 μm] Ni

Marking: 3M Logo, Position Indicator, Insulator Material

Mating Compatibility: 371 Series

Electrical

Current Rating: 3.0 A

Voltage Rating: 32 V

Insulation Resistance: 1,000 MΩ minimum at 500 V_{DC}

Withstanding Voltage: 1,000 V_{RMS} for 1 minute

Environmental

Temperature Rating: -20°C to +85°C ambient (1.0 A max.)
-20°C to +75°C ambient (2.0 A max.)
-20°C to +60°C ambient (3.0 A max.)
(Note: UL rating is 65 C at 3.0 A, 32 V)

Process Rating: 260°C max. SMT reflow (J-STD-020 MSL1)
390°C max. for soldering iron

UL File No.: E68080

3M

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

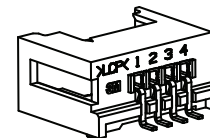
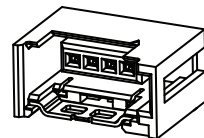
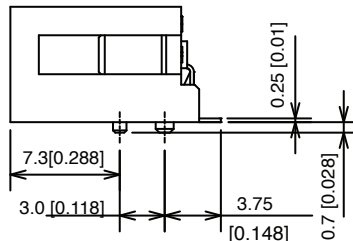
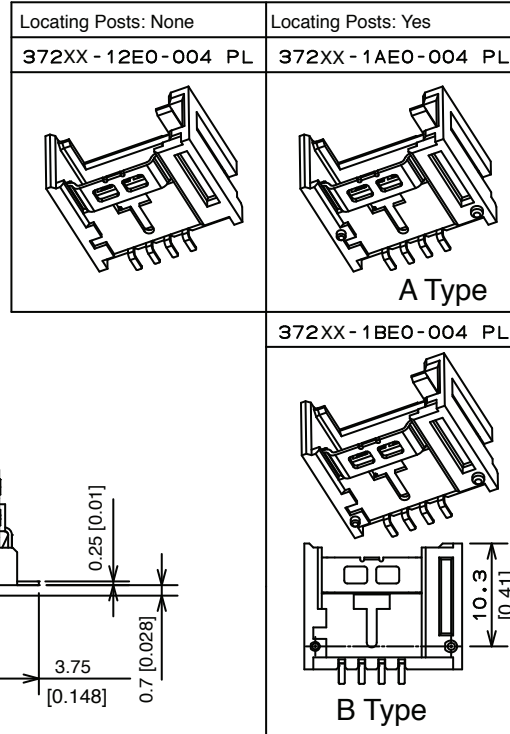
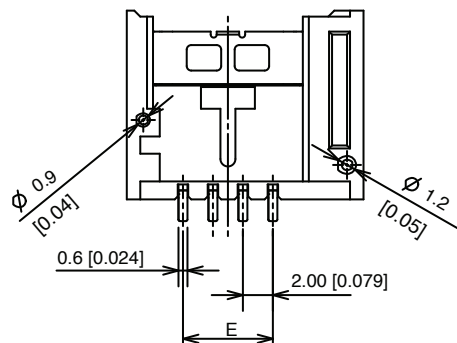
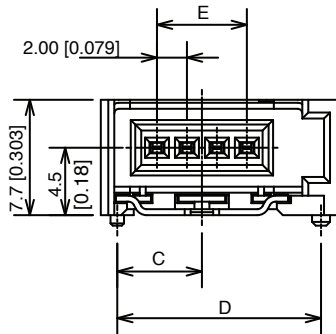
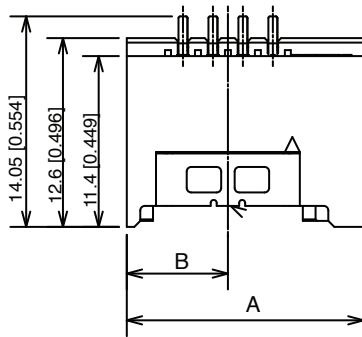
3M is a trademark of 3M Company.
For technical, sales or ordering information call
800-225-5373

3M™ Mini-Clamp Socket

2 mm, Surfacement, Right Angle

372 Series

3 and 4 Position Socket



Pins	A	B	C	D	E
3	13.8 [0.54]	5.75 [.23]	4.65 [0.18]	11.6 [0.46]	4.00 [0.157]
4	15.8 [0.62]	6.75 [0.27]	5.65 [0.22]	13.6 [0.54]	6.00 [0.236]

mm [inch]			
Tolerance Unless Noted			
	.0	.00	.000
mm	±.3	±.13	

[], () Dimensions for Reference Only

Ordering Information

Available Combinations

- 37203-1AE0-003 PL
- 37203-1BE0-003 PL
- 37203-12E0-003 PL
- 37204-1AE0-004 PL
- 37204-1BE0-004 PL
- 37204-12E0-004 PL

372XX-1XE0-00X PL (RIA E1 and C1 Apply)

Positions
03 or 04

Locating Posts
A = Asymmetric
B = Symmetric
2 = None

Mating Plug Size
3 or 4

TS-2271-B
Sheet 2 of 4



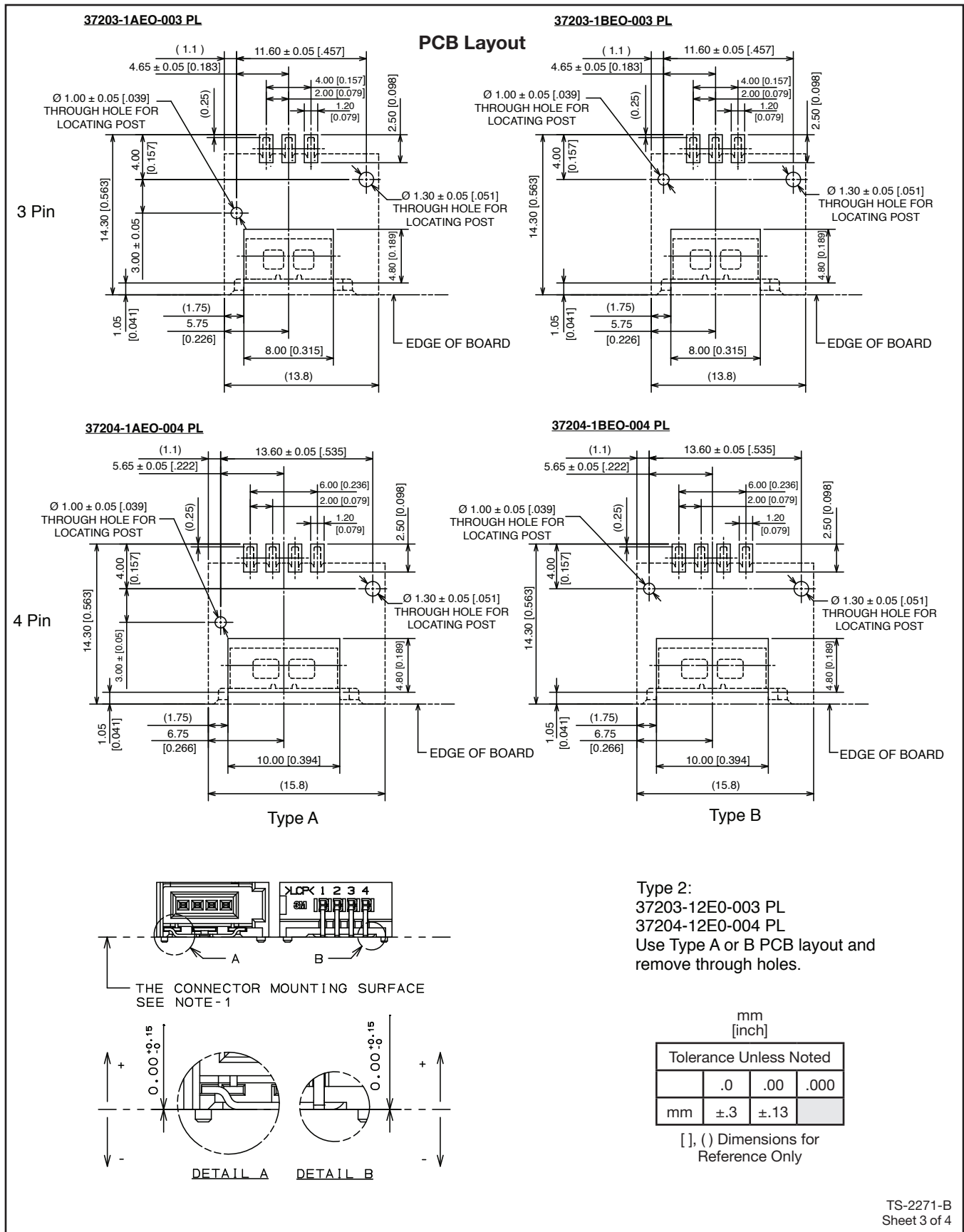
Electronic Solutions Division
Interconnect Solutions
<http://www.3Mconnector.com>

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

3M™ Mini-Clamp Socket

2 mm, Surfacement, Right Angle

372 Series



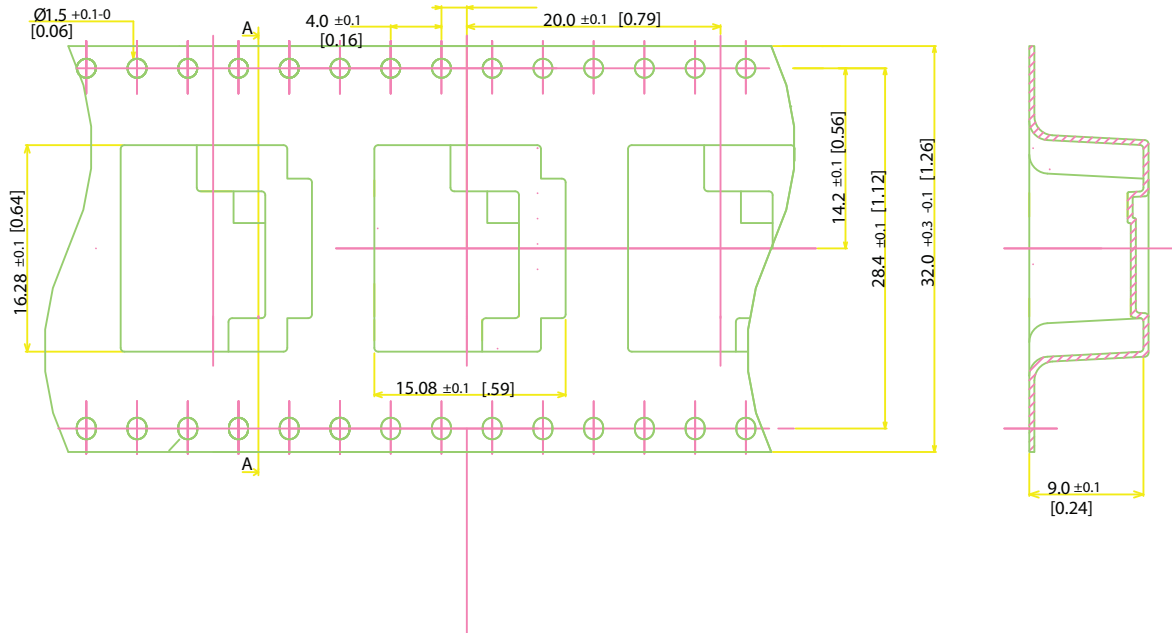
TS-2271-B
Sheet 3 of 4

3M™ Mini-Clamp Socket

2 mm, Surfacement, Right Angle

372 Series

Tape and Reel Packaging



Accessories

Dust Cover Accessory



Ordering Information:

3 pos - 37803-1000-00

4 pos - 37804-1000-00

TS-2271-B
Sheet 4 of 4

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.3Mconnector.com

Please recycle. Printed in USA.
© 3M 2010. All rights reserved.
RIA-2217B-E

3M is a trademark of 3M Company.