# 3M<sup>™</sup> Stacking Compression Connector

.050", 100 or 150 Position

389 Series



- One-piece connector
- Surface-pressure contact
- · Bus applications
- RoHS\* compliant

Date Modified: October 12, 2006

TS-0798-08 Sheet 1 of 4

# **Physical**

Insulation

Material: Glass Filled Polyester (PPS)

Flammability: UL 94V-0 Color: Black

Marking: 3M Logo and Ink Stamped Part Number

Stiffeners

Material: Glass Filled Thermoplastic and Spring Steel (3448-7X)

Coating: Black Epoxy (3448-7X only)

Contact

Material: Beryllium Copper

Plating:

Underplating:  $50 \mu''$  [ 1.27  $\mu$ m ] Nickel - QQ-N-290, Class 2

Wiping Area:  $30 \mu''$  [  $0.76 \mu m$  ] Gold, MIL-G-45204, Type II, Grade C

## **Electrical**

**Current Rating:** 1 A

**Insulation Resistance:**  $> 1 \times 10^9 \Omega$  at 500 VDC

Withstanding Voltage: 30 V

### **Environmental**

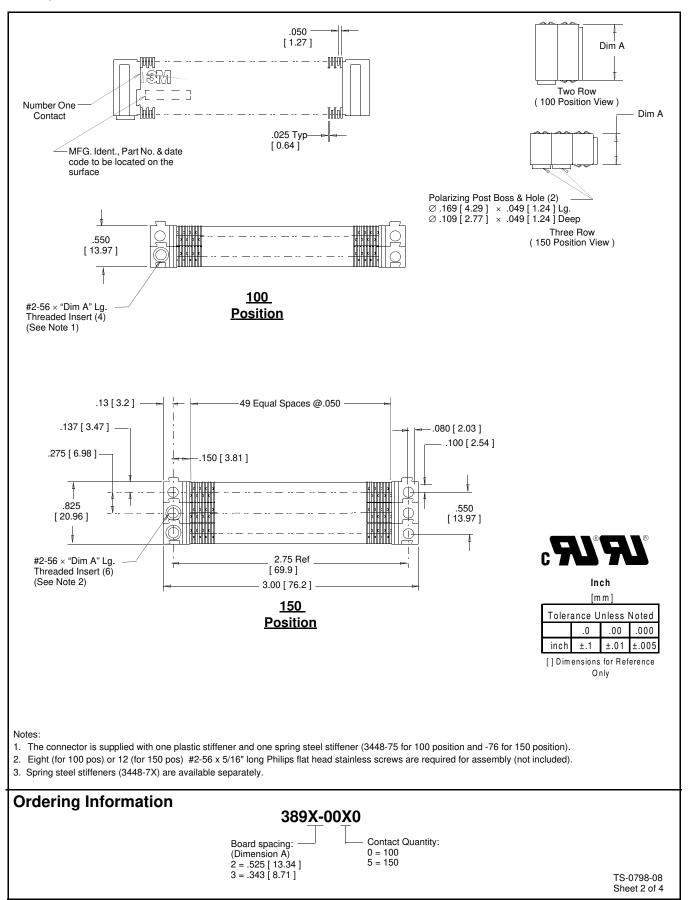
**Temperature Rating:** -55°C to +105°C

"RoHS compliant" means that the product or part does not contain any of the following substances in excess of the following maximum concentration values in any homogeneous material, unless the substance is in an application that is exempt under RoHS: (a) 0.1% (by weight) for lead, mercury, hexavalent chromium, polybrominated biphenyls or prolybromianted diphenyl ethers; or (b) 0.01% (by weight) for cadmium. Unless otherwise stated by 3M in writing, this information represents 3M's knowledge and belief based upon information provided by third party suppliers to 3M.

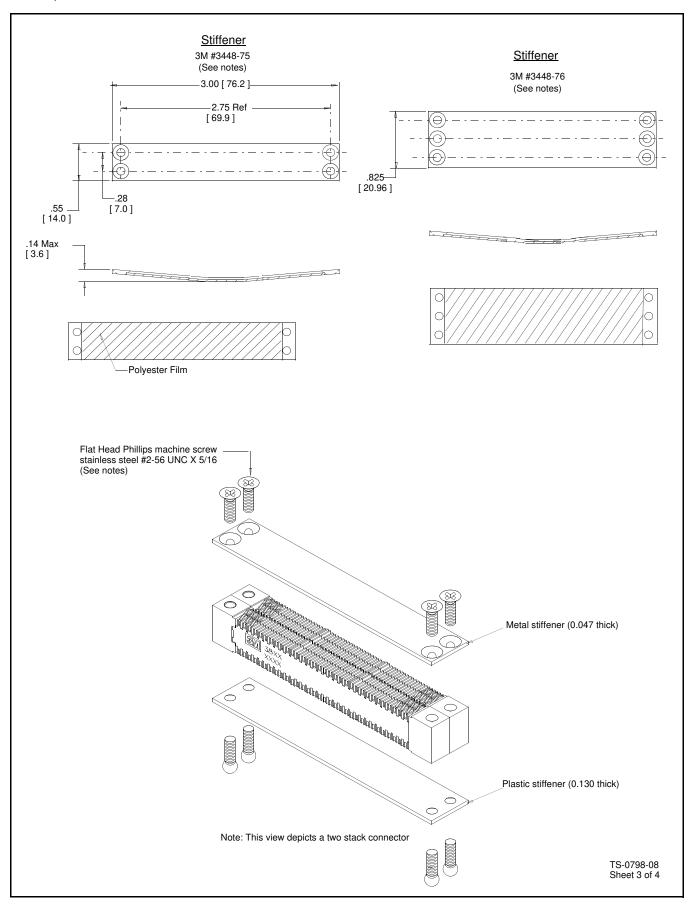
UL File No.: E68080

.050", 100 or 150 Position

389 Series



389 Series



.050", 100 or 150 Position

389 Series

#### **Board & Footprint Specification** Material: G10 Glass Filled Epoxy Thickness: $.062'' \pm .0008''$ Pad Material: 1.0 ounce Copper Size: .055" x .090" Oval Thickness: .0012" minimum Underplating: $100 \mu'' (2.54 \mu m)$ Nickel - QQ-N-290 Plating: $30 \mu'' (0.76 \mu m)$ Gold - MIL-G-45204, Type II, Grade C, 130-220 Knoop hardness 100 Position Connector Footprint pad and hole locations **Primary and Secondary Sides** (Viewed from primary side) ⊘.109 (NPTH) [2.77] ⊕ A B .004 2.750 [ 69.85 ] ⊘.180 [ 4.57 ] (NPTH) ⊕ A B .004 49 Equal Spacing @.050 Basic Equals 2.450 .150 [ 3.81 ] .100 [ 2.54 ] Typ 4X .050 [ 1.27 ] [2.54] 100 49 -B-.275 [6.99] .050 [ 1.27 ] Typ .070 imes .090 imes Ref⊘.089 [ 2.26 ] (NPTH) [1.78] [2.29] .089 × .110 Oval Surface Mount Pad [2.26] [2.79] 150 Position Connector Footprint pad and hole locations **Primary and Secondary Sides** (Viewed from primary side) 2X Ø.109 (NPTH) [2.77] -A-2.750 [ 69.85 ] ⊕ A B .004 2X Ø.180 [ 4.57 ] (NPTH) ⊕ A B .004 49 Equal Spacing @.050 Basic Equals 2.450 .150 [ 3.81 ] 3X .100 6X .050 [ 1.27 ] [2.54] 101 102 2X .275 [ 6.99 ] -B-.050 [ 1.27 ] Typ .070 × .090 Y Ref ⊘.089 [ 2.26 ] (NPTH) [1.78] [2.29] .089 × .110 – [2.26] [2.79] Oval Surface Mount Pad TS-0798-08 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.



**3M Electronics** 

6801 River Place Blvd. Austin, TX 78726-9000 800/225-5373 www.3M.com/electronics

#### 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.



Minimum 10% Post-Consumer Fiber Printed in USA.

© 3M 2006