3M[™] 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

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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

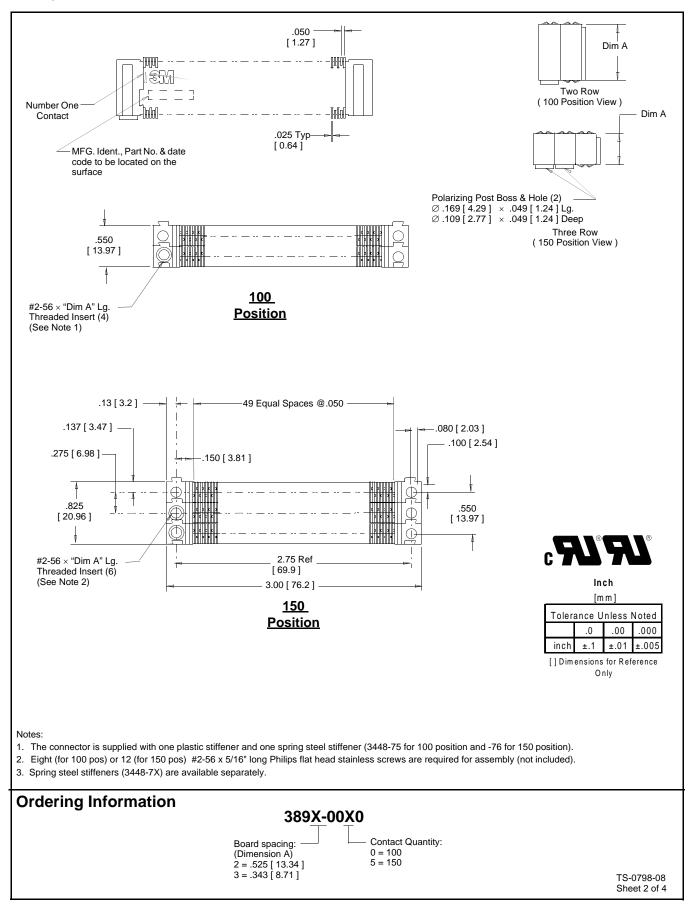
Temperature Rating: -55° C to $+105^{\circ}$ C

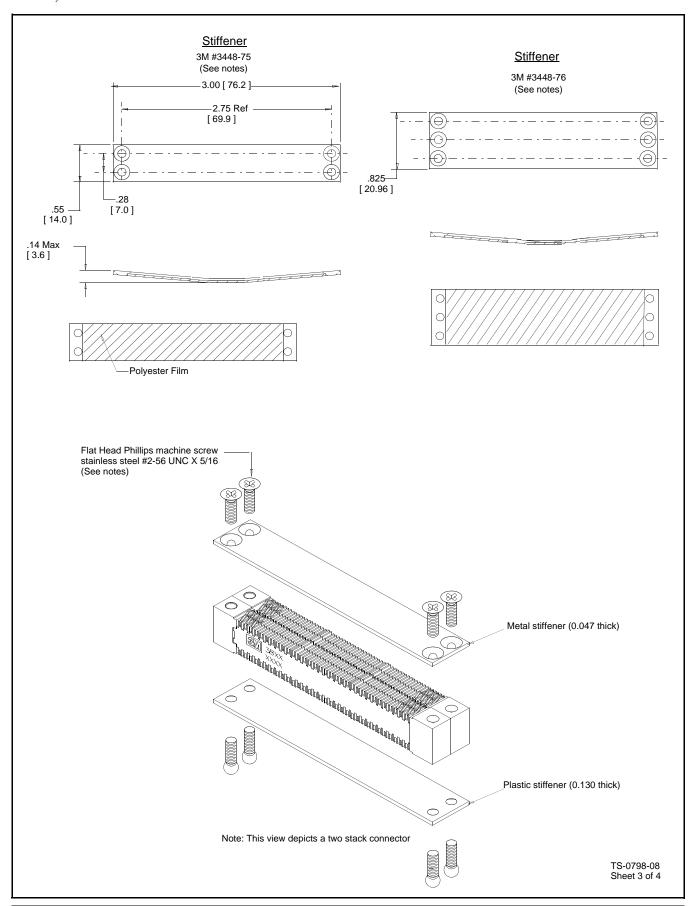
"RoHS compliant" means that the product or part does not contain any of the following substances in excess of the following maximum concentration values in any homogeneous material, unless the substance is in an application that is exempt under RoHS: (a) 0.1% (by weight) for lead, mercury, hexavalent 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

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Board & Footprint Specification Material: G10 Glass Filled Epoxy Thickness: .062" ± .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

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Minimum 10% Post-Consumer Fiber Printed in USA.

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