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With the principle of "Quality Parts,Customers Priority,Honest Operation,and Considerate Service",our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

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# 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

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## Electrical

Current Rating: 1 A

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

Withstanding Voltage: 30 V

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## Environmental

Temperature Rating: -55°C to +105°C

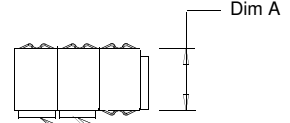
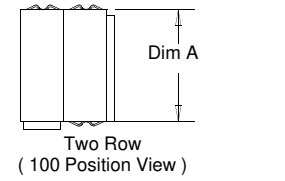
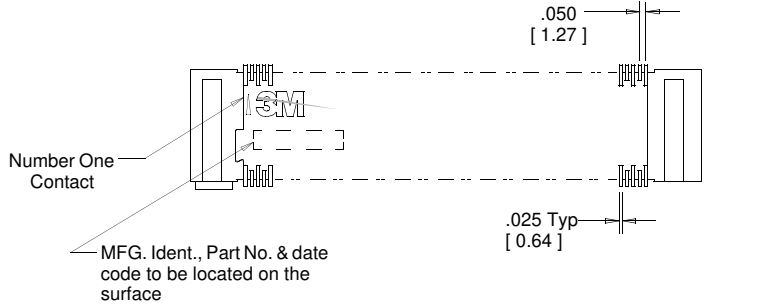
"RoHS compliant" means that the product or part does not contain any of the following substances in excess of the following maximum concentration values in any homogeneous material, unless the substance is in an application that is exempt under RoHS: (a) 0.1% (by weight) for lead, mercury, hexavalent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

# 3M™ Stacking Compression Connector

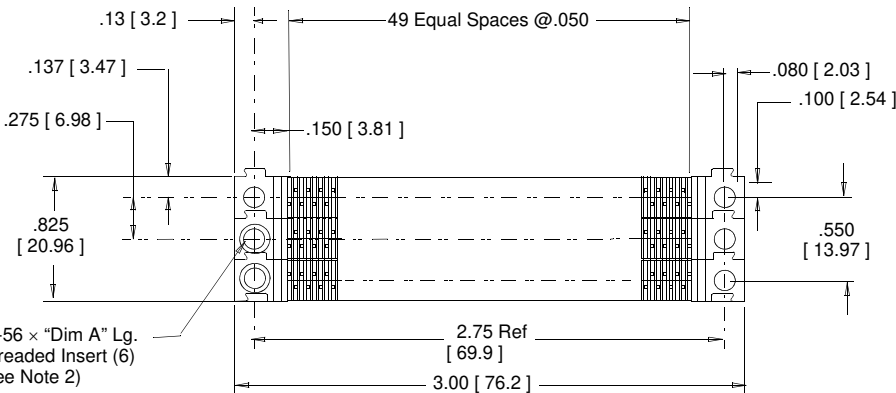
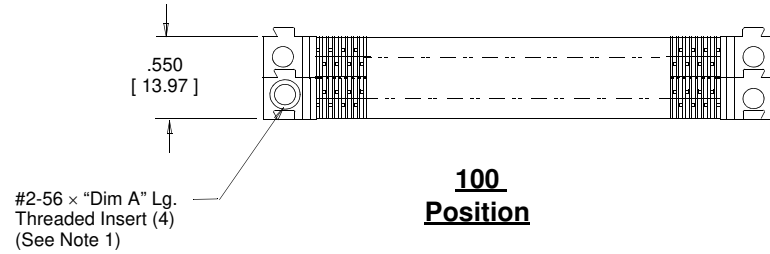
.050", 100 or 150 Position

389 Series



Polarizing Post Boss & Hole (2)  
 ∅ .169 [4.29] × .049 [1.24] Lg.  
 ∅ .109 [2.77] × .049 [1.24] Deep

Three Row  
 (150 Position View)



#2-56 × "Dim A" Lg.  
 Threaded Insert (6)  
 (See Note 2)

**150  
Position**



Inch  
 [mm]

Tolerance Unless Noted			
	.0	.00	.000
inch	±.1	±.01	±.005

[ ] Dimensions for Reference Only

**Notes:**

1. The connector is supplied with one plastic stiffener and one spring steel stiffener (3448-75 for 100 position and -76 for 150 position).
2. Eight (for 100 pos) or 12 (for 150 pos) #2-56 x 5/16" long Philips flat head stainless screws are required for assembly (not included).
3. Spring steel stiffeners (3448-7X) are available separately.

## Ordering Information

**389X-00X0**

Board spacing:  
 (Dimension A)  
 2 = .525 [13.34]  
 3 = .343 [8.71]

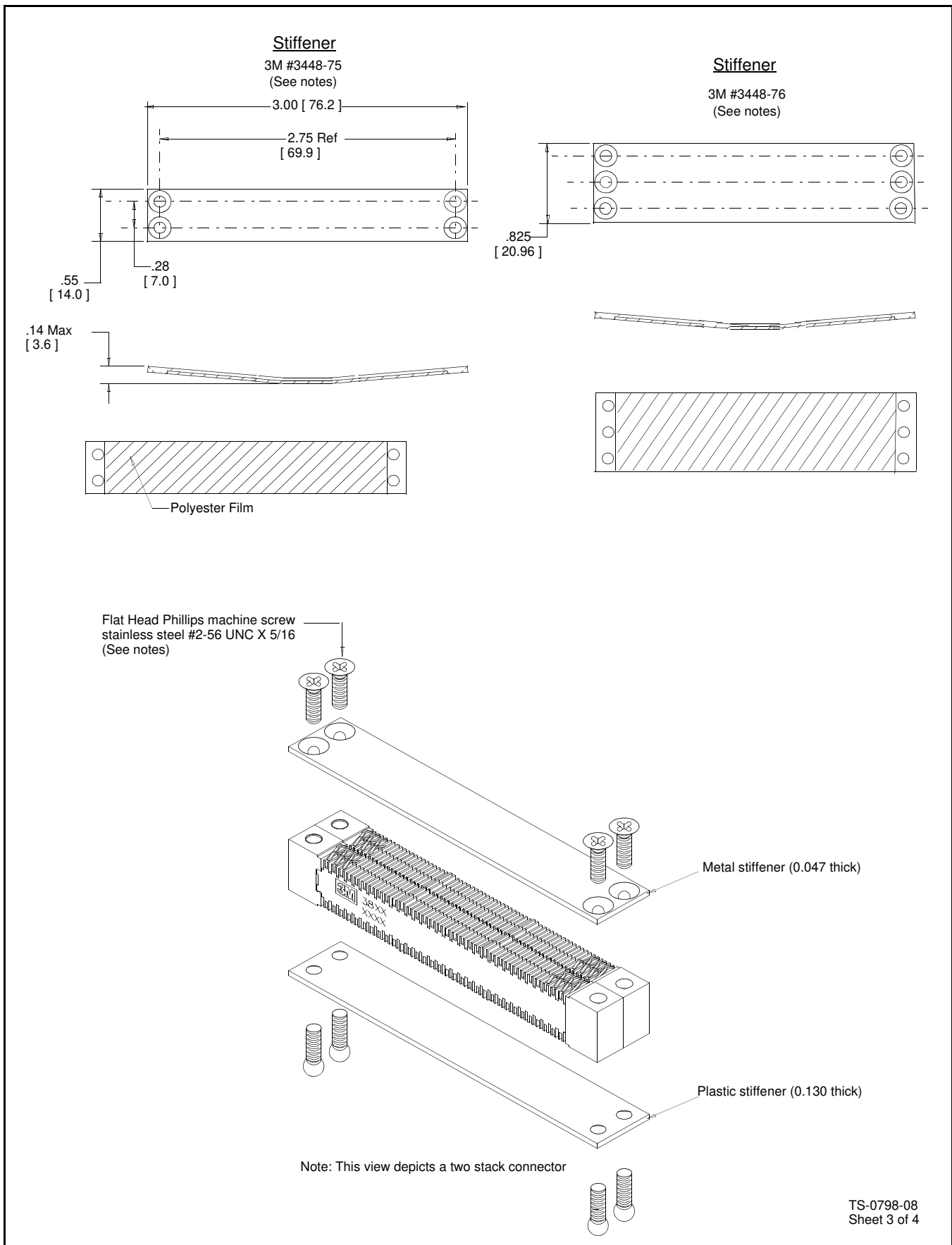
Contact Quantity:  
 0 = 100  
 5 = 150

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# 3M™ Stacking Compression Connector

.050", 100 or 150 Position

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# 3M™ Stacking Compression Connector

.050", 100 or 150 Position

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## Board & Footprint Specification

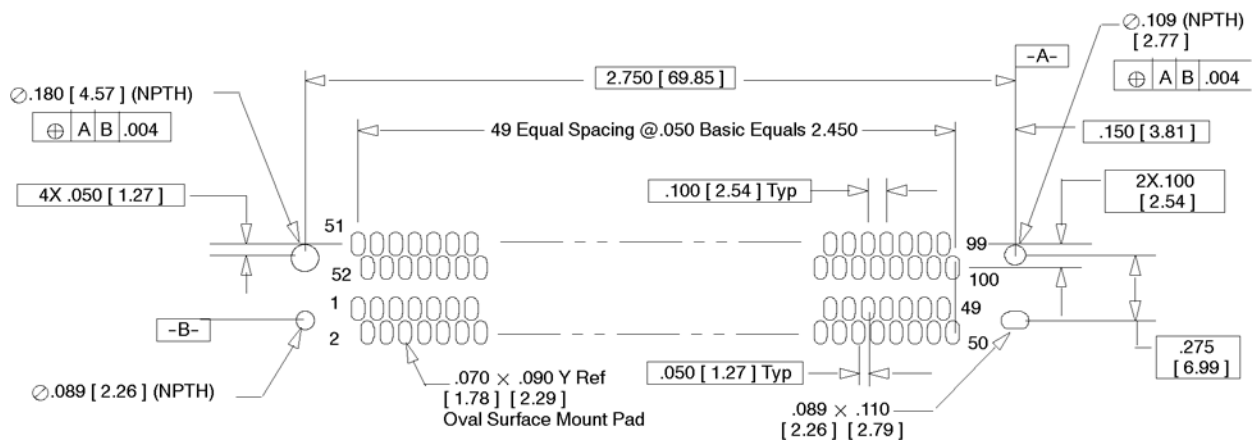
### Board

Material: G10 Glass Filled Epoxy  
 Thickness: .062" ± .0008"

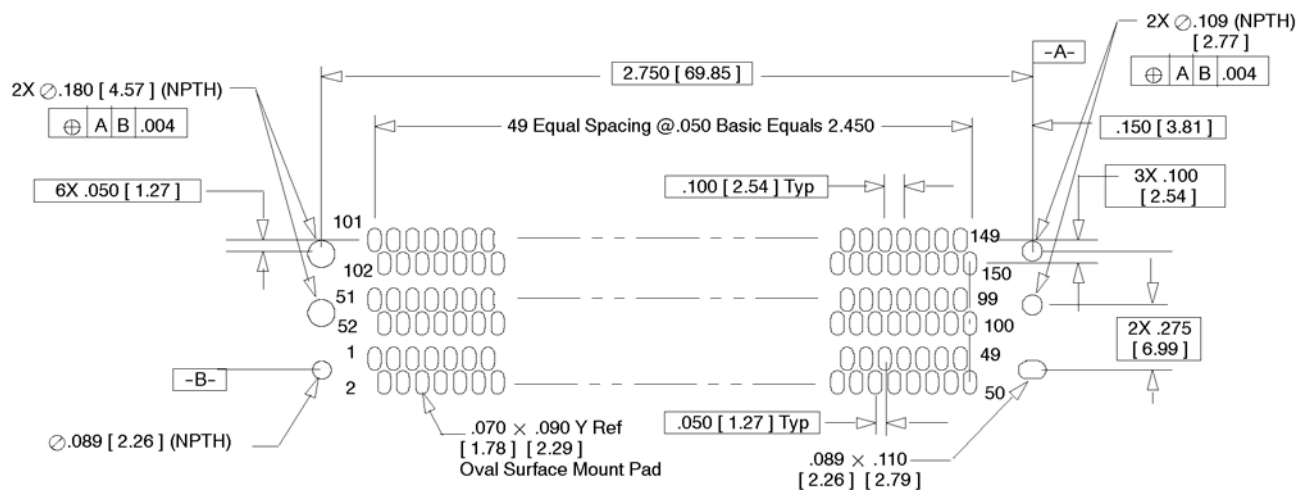
### Pad

Material: 1.0 ounce Copper  
 Size: .055" x .090" Oval  
 Thickness: .0012" minimum  
 Underplating: 100 μ" (2.54 μm) Nickel - QQ-N-290  
 Plating: 30 μ" (0.76 μm) 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)



### 150 Position Connector Footprint pad and hole locations Primary and Secondary Sides (Viewed from primary side)



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