

# 3M™ Pak 50 Stacking Compression Connector

130 Position

388 Series



- No solder joints, compression stacking connector
- Standardized interface for Intel Modular Interface eXtension (MIX) Bus (module to module and module to baseboard connector)
- Connector heights tailored for Multibus II environment
- 130 contacts to fully accommodate “MIX” bus signals
- RoHS\* compliant

Date Modified: February 9, 2005

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## Physical

### Insulation

Material: Glass Filled Polyester (PPS)  
Flammability: UL 94V-0  
Color: Black

**Marking:** 3M Logo & Ink Stamped Part Number

### Stiffener

Material: Spring Steel  
Coating: Black Epoxy

### 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

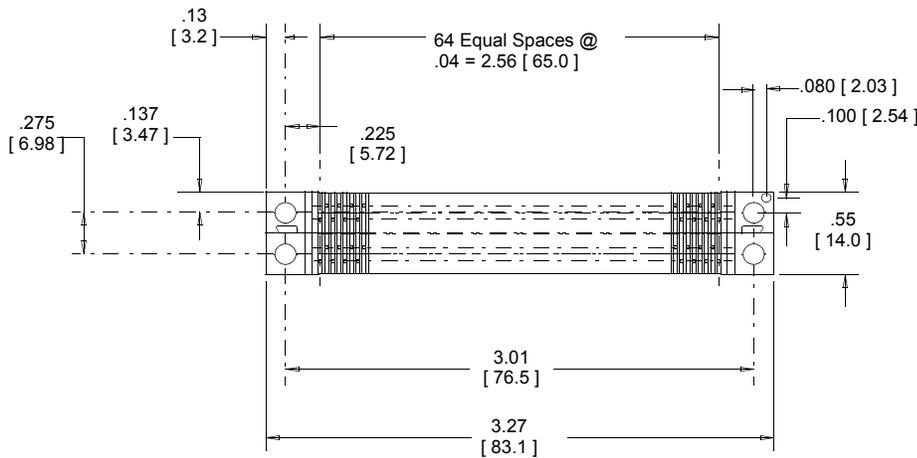
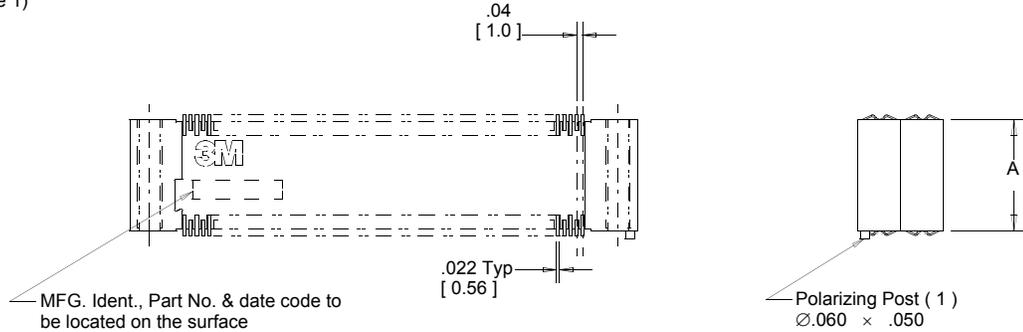
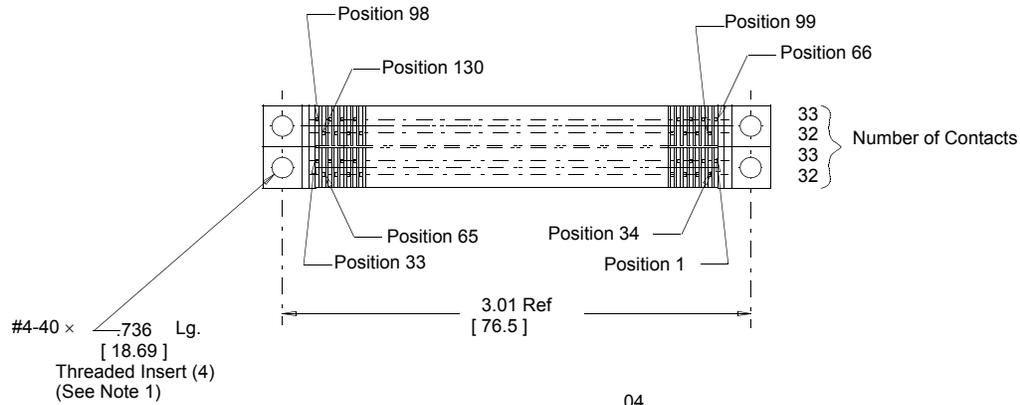
UL File No.: E68080

\*RoHS = Directive 2002/95/EC,  
Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment

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Inch  
[mm]

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

[ ] Dimensions for Reference Only

Note:

- Each connector includes (8) screws, 3M #3342-8 and (2) stiffeners, 3M #3448-38.

## Ordering Information

**388X-100A**

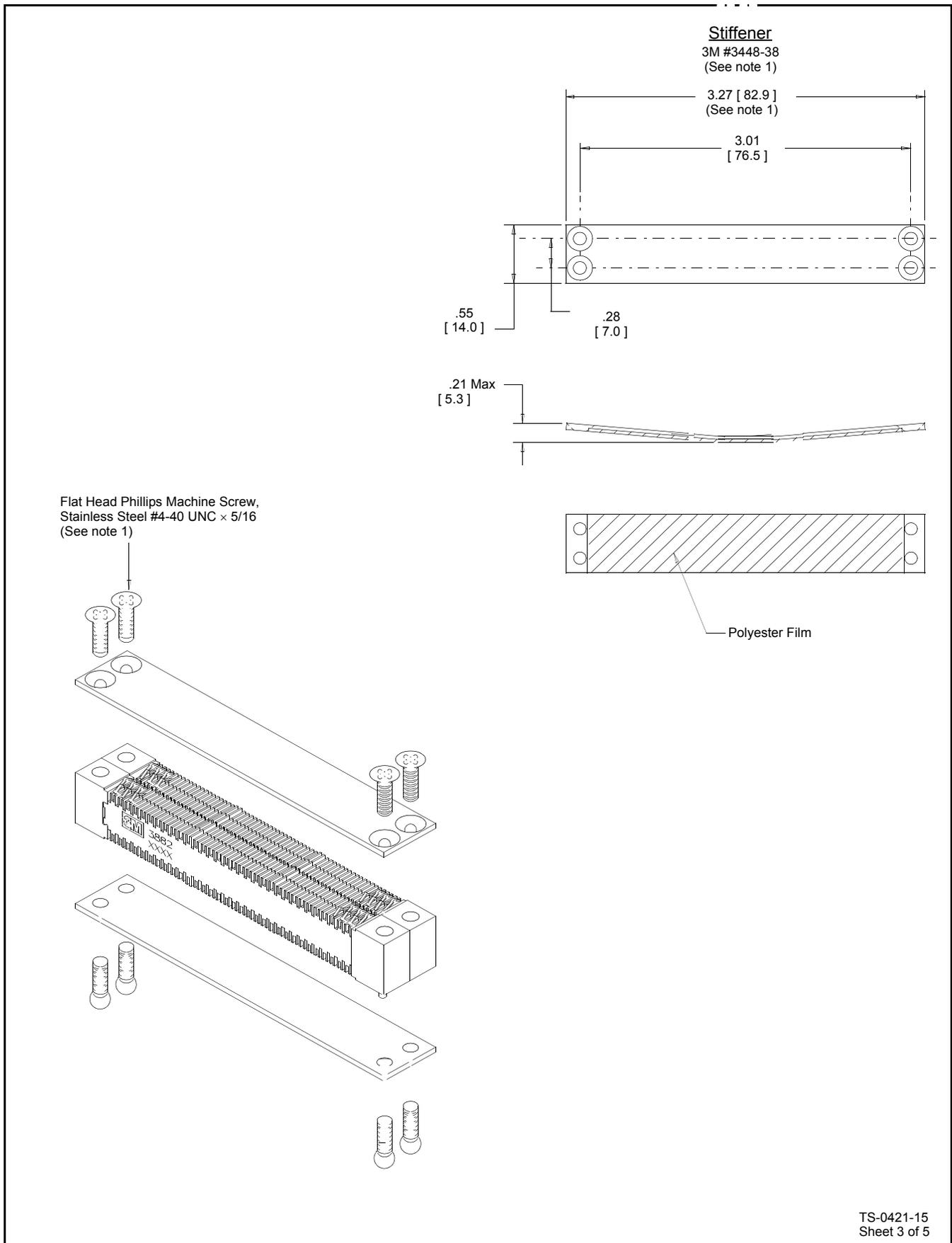
Board spacing (Dimension A)  
2 = .476 [12.09]  
7 = .738 [18.75]

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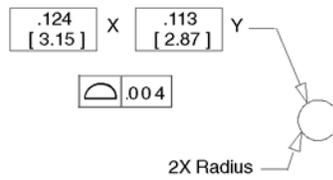
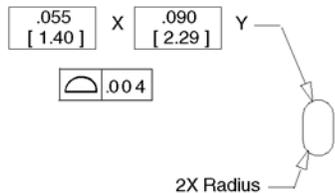
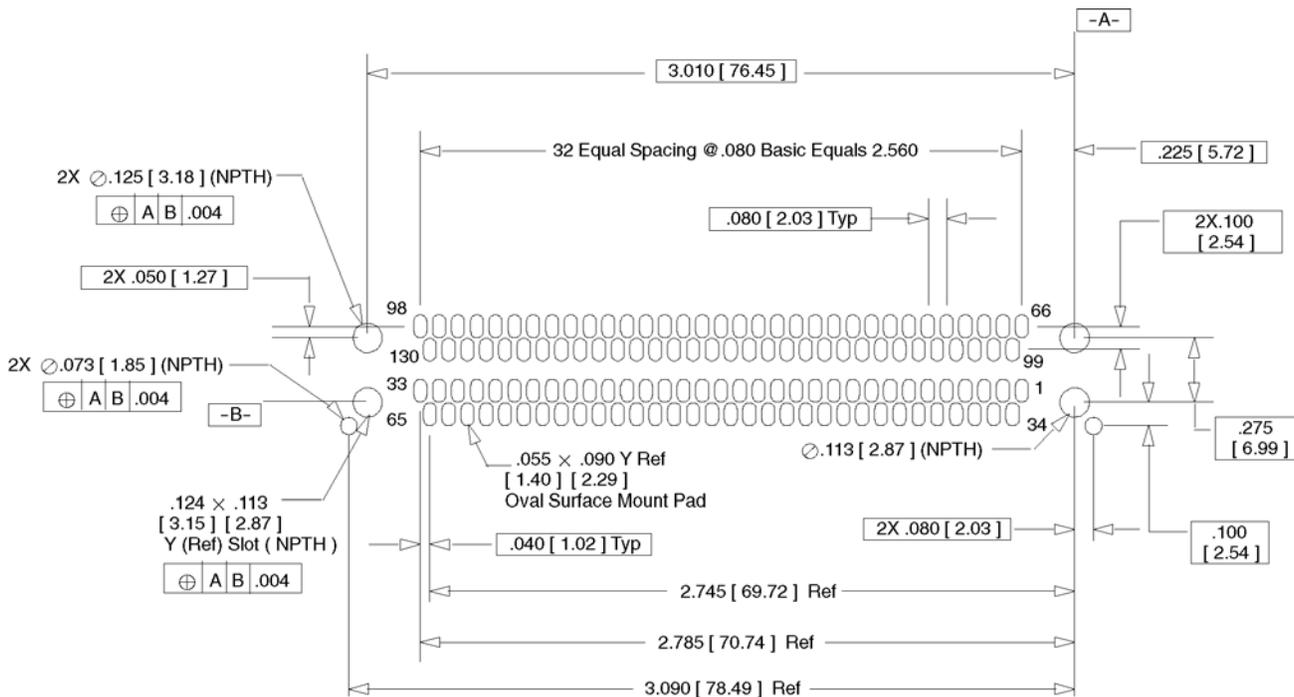
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## Board and Footprint Specification

- 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

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



**Oval SMT Pad  
Detail**

**Slot Detail  
(NPTH)**

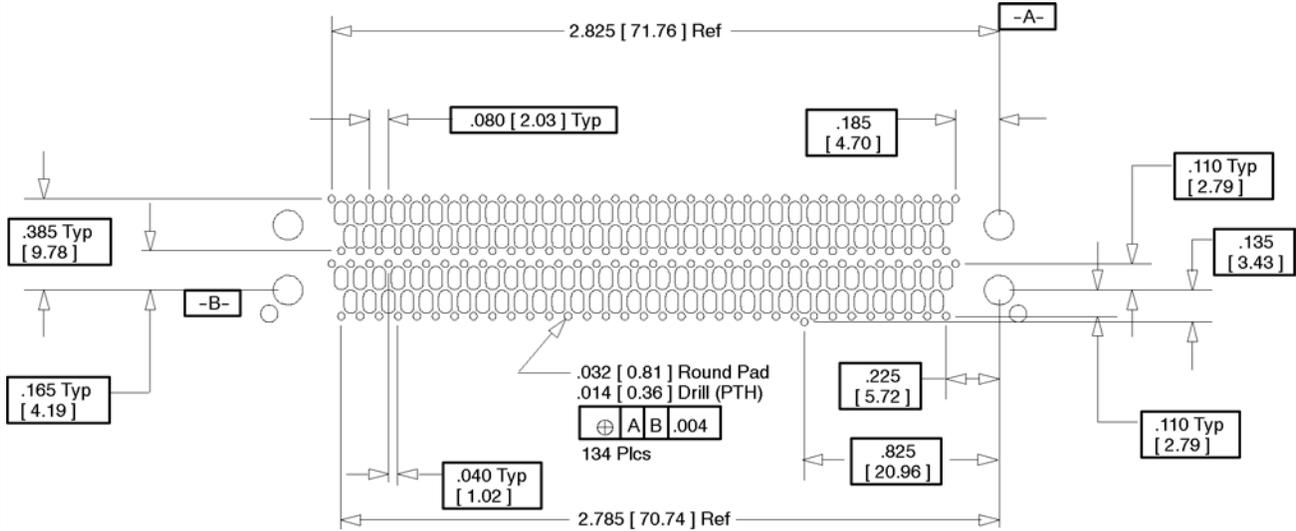
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# 3M™ Pak 50 Stacking Compression Connector

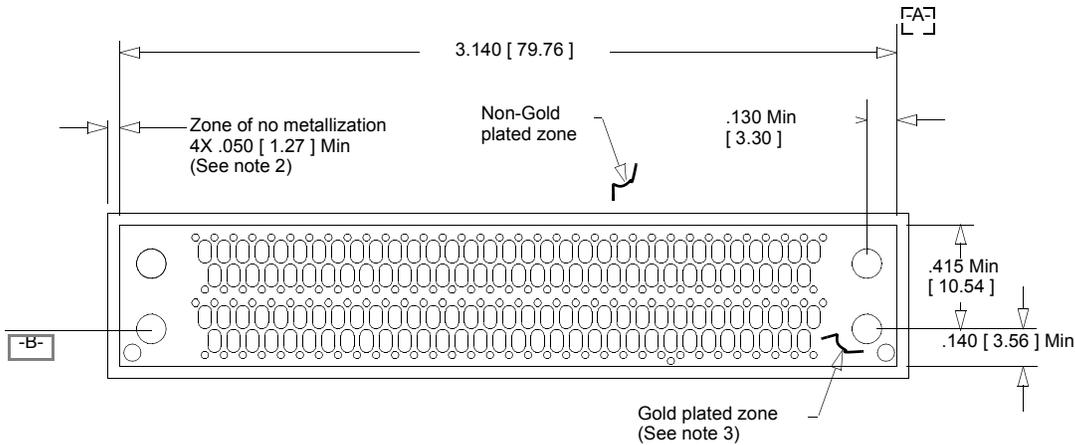
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**MIX Connector Footprint**  
**Via Locations**  
**Primary and Secondary**  
**Sides**  
 (Viewed from primary side)



**MIX Connector Footprint**  
**Gold and Non-Gold Zones**



Notes:

2. Zone of no metallization is to be clear of any copper on the primary and secondary sides.
3. Gold plated zone is to be clear of any vias other than the established via pattern.

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# 3M

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