

# 3M™ Connector for CFast™ Card

7G24 Series



- Headers mate with both CFast™ Type I and Type II cards
- Extended guide rails enable accurate and easy card insertion
- Single row surface mount solder tails facilitate auto placement and IR soldering
- Optional 2 mm board standoff enables board population
- Meets CFA standards for known compatibility and reliability
- Optional ejector and card retainer can be purchased pre-assembled or separately
- Integral side solder tab with card grounding feature and also prevent the card from 'flying' out of header during ejection
- See the Regulatory Information Appendix (RIA) in the "RoHS compliance" section of [www.3Mconnector.com](http://www.3Mconnector.com) for compliance information (RIA E1 & C1 apply)

Date Modified: May 12, 2010

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## Physical

### Insulation:

Material: High Temperature Thermoplastic  
Flammability: UL 94V-0  
Color: Beige

### Contact:

Material: Copper Alloy

### Terminal Plating:

Underplating:  $80 \mu$ " [2.03  $\mu$ m] Min. Nickel  
Wiping Area:  $15 \mu$ " or  $30 \mu$ " [0.38 – 0.76  $\mu$ m] Min. Gold  
Solder Tail:  $100 \mu$ " [2.54  $\mu$ m] Min. Matte Tin

## Electrical

**Current Rating:** 1.5 A per pin

**Insulation Resistance:**  $10^3 \text{ M}\Omega$  at 500 V<sub>AC</sub>

**Withstanding Voltage:** 500 V<sub>AC</sub> for 1 minute

## Environmental

**Temperature Rating:** -40°C to 85°C

**Process Temperature Rating:** Max. 260°C (per J-STD-020C)

**Moisture Sensitivity Level:** 1 (per J-STD-020C)

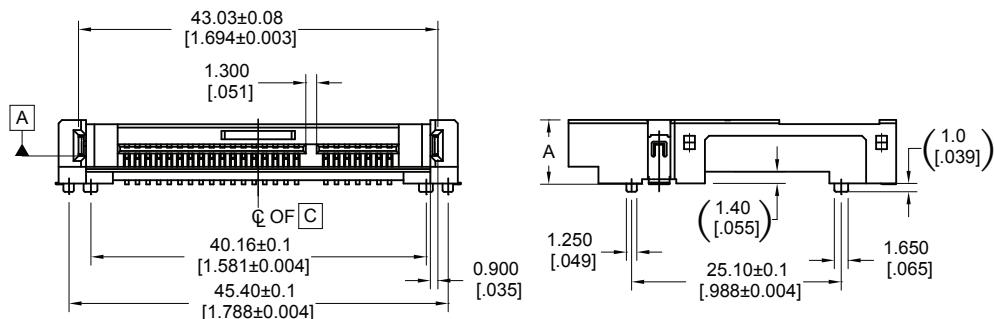
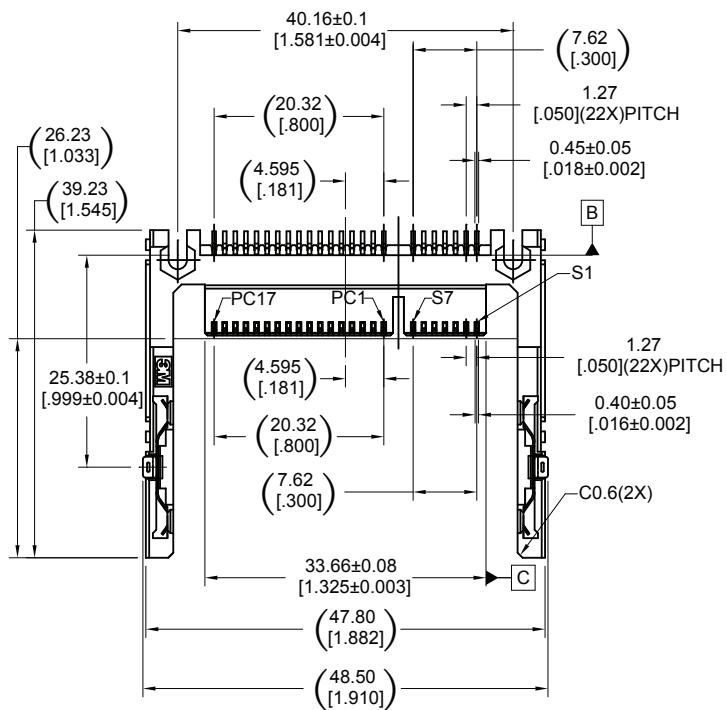
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Part No.	Dimension 'A' mm [inch]
N7G24-A0B2XX-00-XHT	5.70 [.224]
N7G24-A0B2XX-10-XHT	7.70 [.303]

Tolerance Unless Noted			
	.0	.00	.000
mm	±.25	±.15	±.05
inch	±.010	±.006	±.002

[ ] Dimensions for Reference Only

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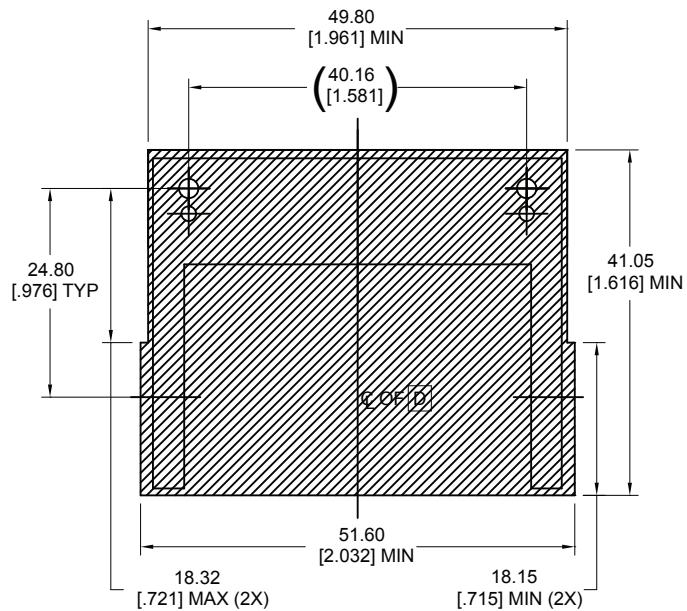
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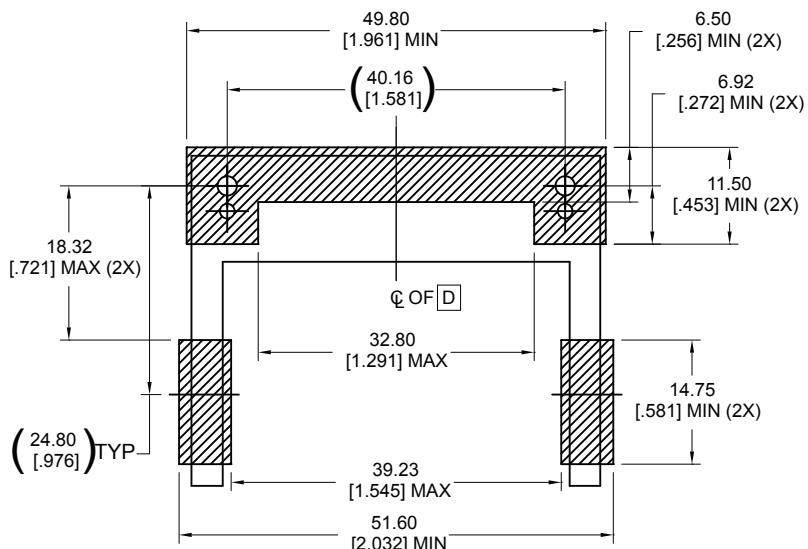
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# 3M™ Connector for CFast™ Card

7G24 Series



COMPONENT REFLOW KEEP OUT ZONE  
(FOR NO STANDOFF HEIGHT CONNECTOR)



COMPONENT REFLOW KEEP OUT ZONE  
(FOR 2MM STANDOFF CONNECTOR)

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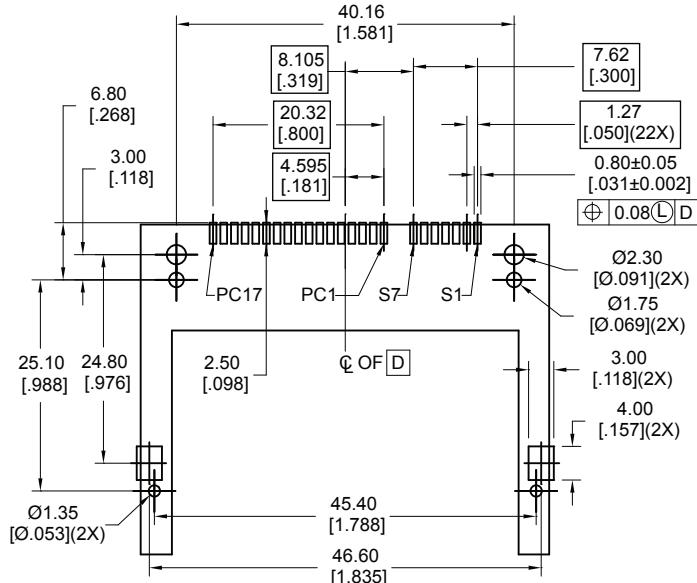
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# 3M™ Connector for CFast™ Card

7G24 Series



RECOMMENDED PCB THICKNESS 1.65 [0.066] NOMINAL  
HOLE & PAD PATTERN TOL ±0.05 [0.002]

## Ordering Information

### Physical Configuration (Total Arm Length)

A = 39.23 mm

### Card Polarization

B = Normal

\*\*D = Inverse

### Mounting Style

2 = Surface Mount, Right Angle  
1.27 mm Tail Pitch

### Plating Suffix

\*\*EA=15  $\mu$ " min. Gold plated at mated end and Gold Flash at soldertail. 80  $\mu$ " min.  
Nickel underplated all over.

\*\*EB=30  $\mu$ " min. Gold plated at mated end and Gold Flash a soldertail. 80  $\mu$ " min.  
Nickel underplated all over.

RA=15  $\mu$ " min. Gold plated at mated end and 100  $\mu$ " min. Matte-Tin plated at soldertail.  
80  $\mu$ " min. Nickel underplated all over.

RB=30  $\mu$ " min. Gold plated at mated end and 100  $\mu$ " min. Matte-Tin plated at soldertail.  
80  $\mu$ " min. Nickel underplated all over.

N7G24 - A 0 X X XX - X 0 - X XX

### Packaging Option

HT = Hard Tray  
\*\*WF = Tape & Reel

### Preassembly

0 = No preassembly accessory  
3 = Right Dual-Push Ejector  
(P/N: 7G24-B5A6-05)  
5 = Left Dual-Push Ejector  
(P/N: 7G24-B6A6-05)  
7 = Latching Retainer  
(P/N: 7E50-C016-00)

0 = No Standoff  
1 = 2 mm Standoff

### Notes:

\*\* are for future development

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### **3M Electronics Solutions Division**

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