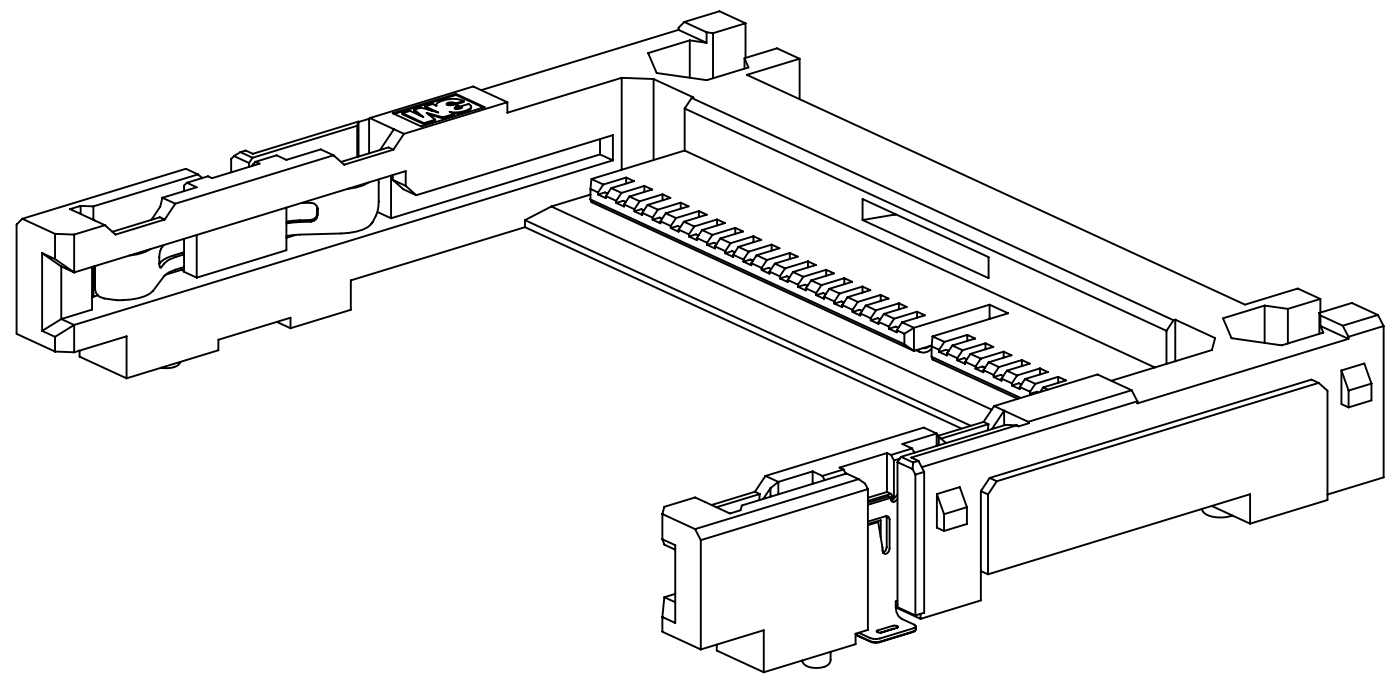
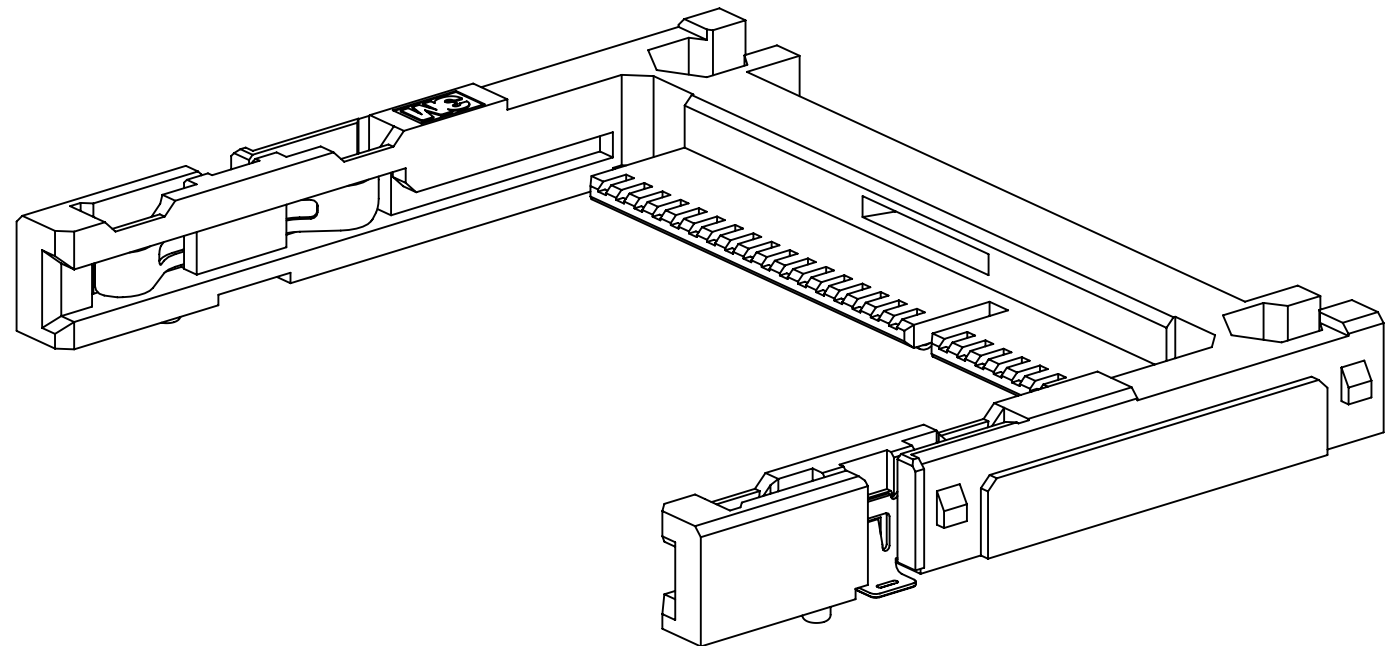


3M™ CONNECTOR FOR CFAST™ CARD, 7G24 SERIES

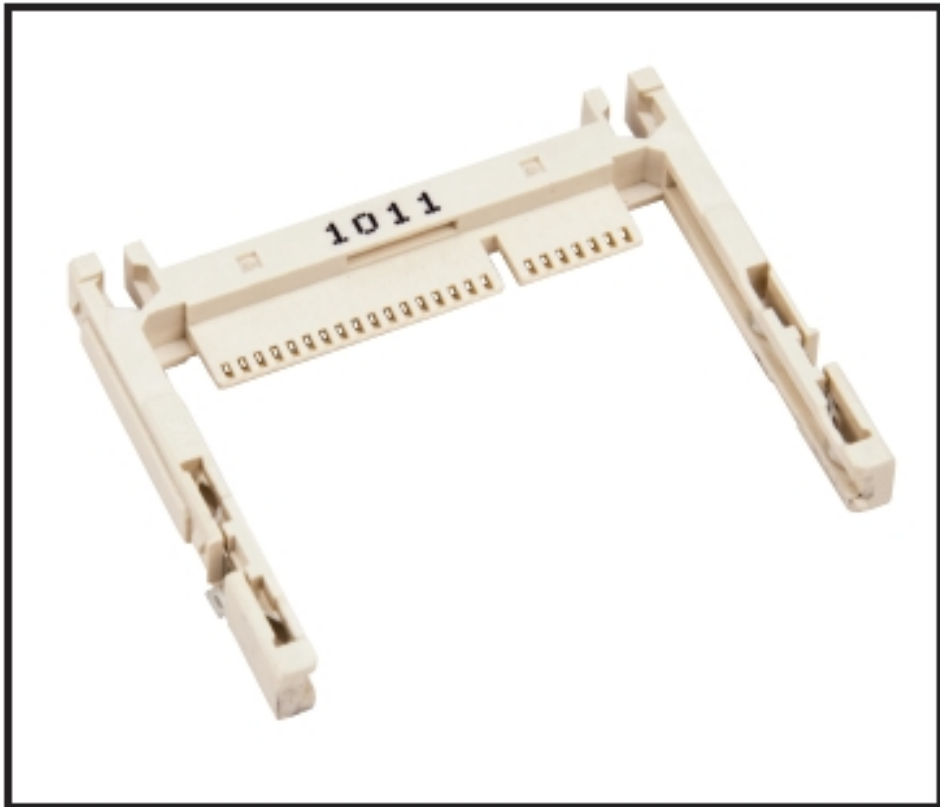


N7G24-A0B2XX-10-X
WITH STANDOFF



N7G24-A0B2XX-00-X
WITHOUT STANDOFF

- * 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 2mm BOARD STANDOFF ENABLES BOARD POPULATION.
- * MEETS CFA STANDARDS FOR KNOWN COMPATIBLTY AND RELIABILITY.
- * OPTIONAL EJECTOR AND CARD RETAINER CAN BE PURCHASED PRE-ASSEMBLED OR SEPARATELY.
- * INTERGRAL SIDE SOLDER TAB WITH CARD GROUNDING FEATURE AND ALSO PREVENT THE CARD FROM "FLYING" OUT OF HEADER DURING EJECTION.



2 PHYSICAL :

INSULATION: MATERIAL: HIGH TEMPERATURE THERMOPLASTIC
FLAMMABILITY: UL94V-0
COLOR: BEIGE
CONTACT: MATERIAL: COPPER ALLOY
TERMINAL PLATING: UNDER PLATING: 80μ" [2.03μm] MIN. NICKEL-OVERALL
WIPING AREA: 15μ" [0.38μm] MIN. GOLD
SOLDER TAILS: 100μ" [2.54μm] MIN. MATTE-TIN

2 ELECTRICAL :

CURRENT RATING: 1.5A PER PIN
INSULATION RESISTANCE: >10³ MΩ AT 500 V_{AC}
WITHSTANDING VOLTAGE: 500V_{AC} FOR 1 MINUTE

2 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)

ORDERING INFORMATION

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

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 = 80μ" MIN. NICKEL UNDERPLATE ALL OVER.
15μ" MIN. GOLD PLATED AT MATED END
GOLD FLASH ON SOLDER TAILS

**EB = 80μ" MIN. NICKEL UNDERPLATE ALL OVER.
30μ" MIN. GOLD PLATED AT MATED END
GOLD FLASH ON SOLDER TAILS

RA = 80μ" MIN. NICKEL UNDERPLATE ALL OVER.
15μ" MIN. GOLD PLATED AT MATED END
100μ" MIN. MATTE-TIN PLATED ON SOLDER TAILS

RB = 80μ" MIN. NICKEL UNDERPLATE ALL OVER.
30μ" MIN. GOLD PLATED AT MATED END
100μ" MIN. MATTE-TIN PLATED ON SOLDER TAILS

PACKAGING OPTION:
HT = HARD TRAY
**WF = TAPE AND REEL

PRE-ASSEMBLY:
0 = NO PRE-ASSEMBLY 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)

STANDOFF:
0 = NO STANDOFF
1 = 2 mm STANDOFF

NOTE:
1) ** ARE FOR FUTURE DEVELOPMENT.

| NOTES | | | |
|-------|--|--|--|
| 1. | REGULATORY INFORMATION: VISIT 3M.com/regs | | |
| 2. | IN THE EVENT OF CONFLICT BETWEEN THIS DATA AND THAT CONTAINED IN THE PRODUCT SPECIFICATION, THE PRODUCT SPECIFICATION TAKES PRECEDENT. | | |

3M ELECTRONICS MATERIALS SOLUTIONS DIVISION
INTERCONNECT SOLUTIONS
<http://www.3M.com/interconnect>

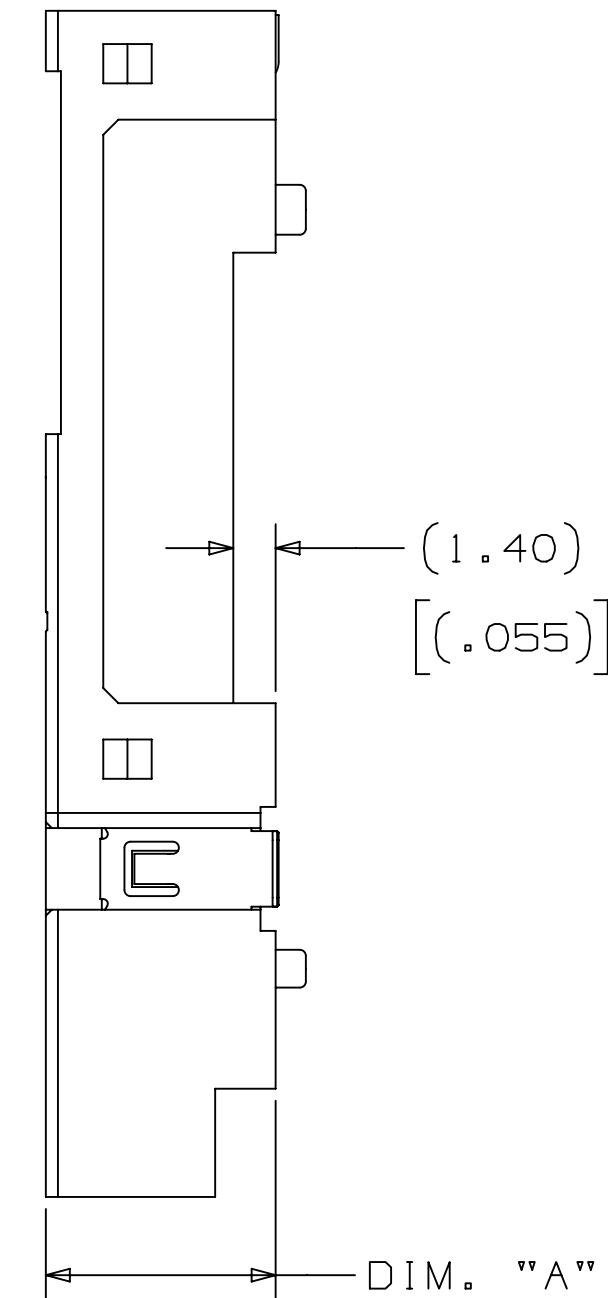
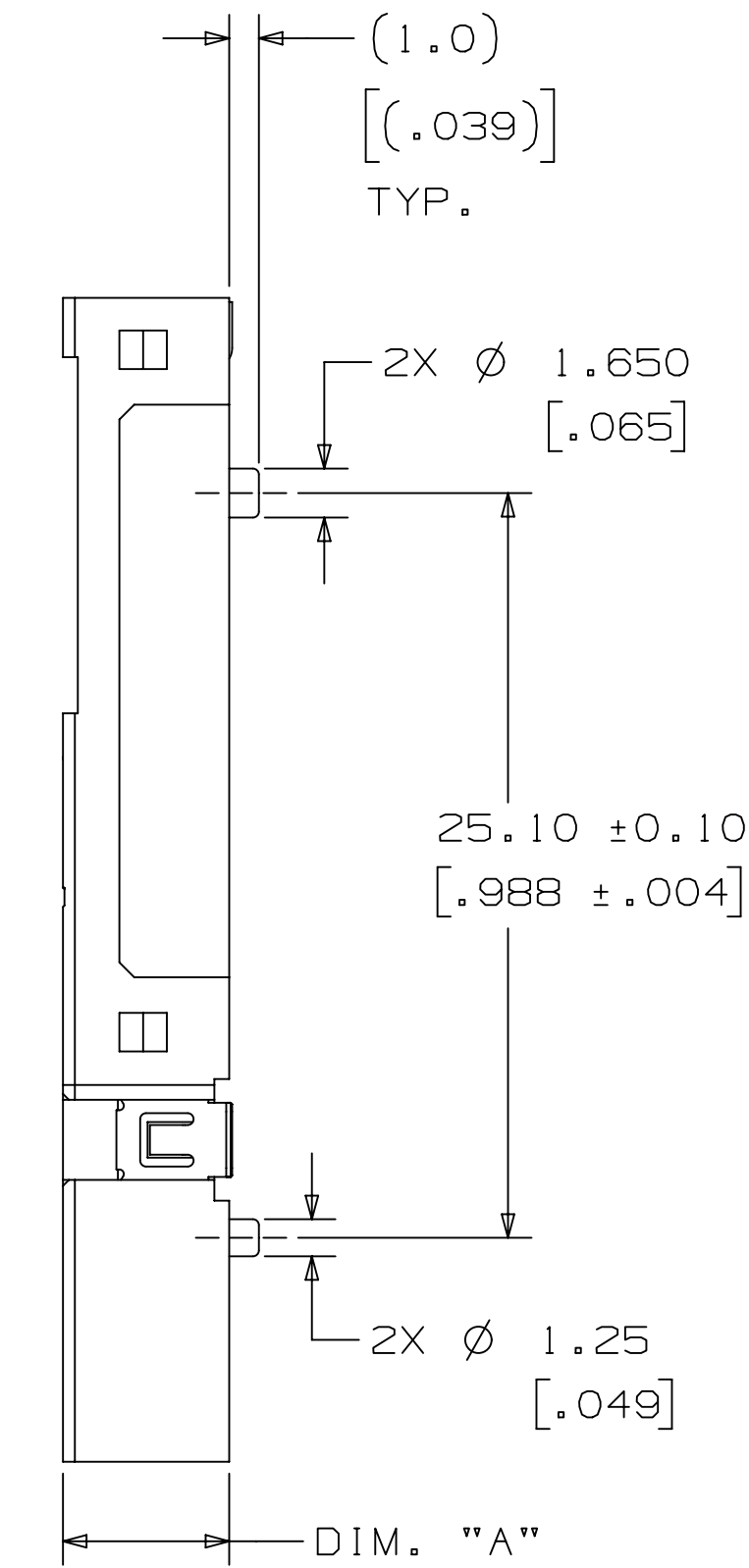
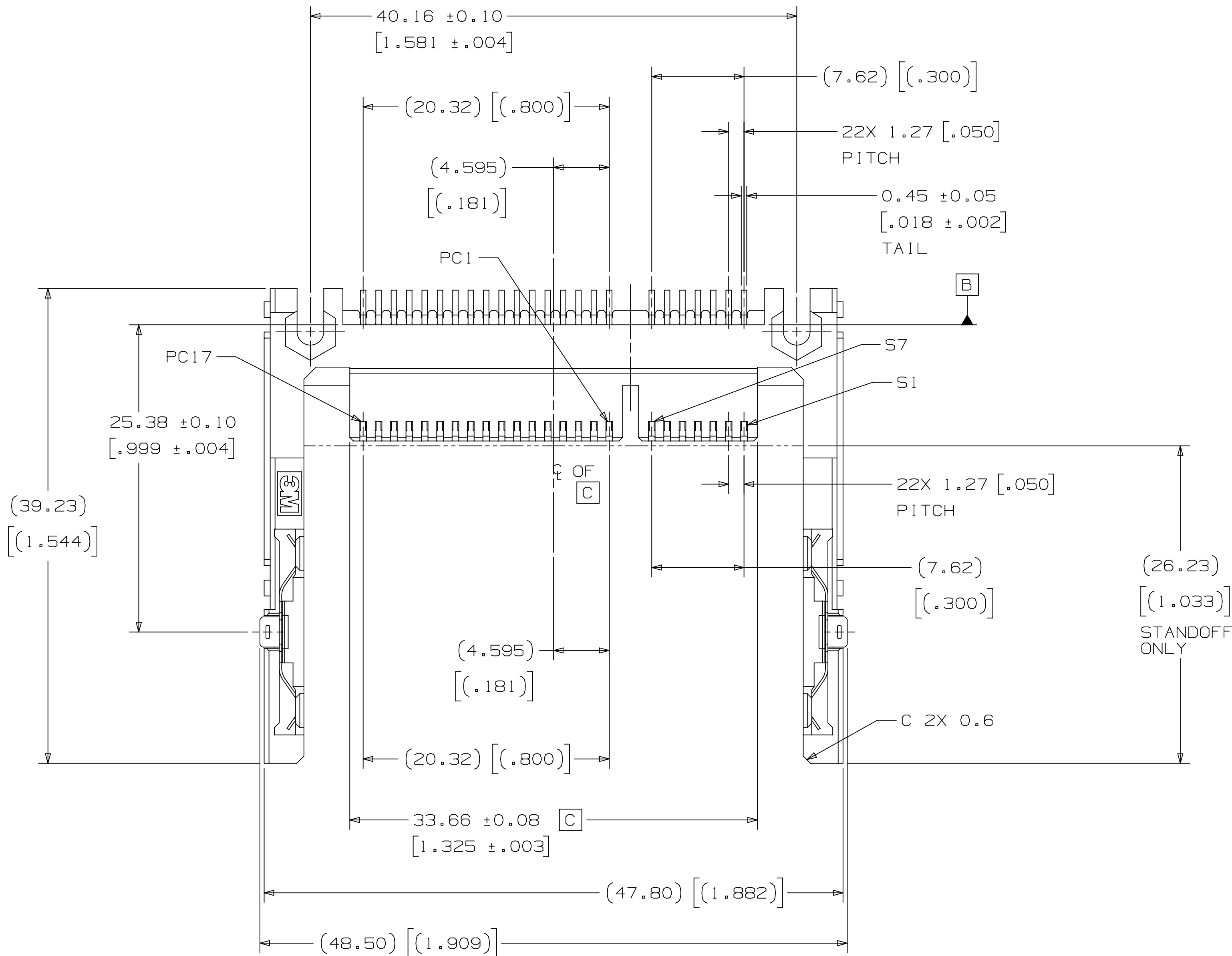
3M IS A TRADEMARK OF 3M COMPANY.
FOR TECHNICAL, SALES OR ORDERING
INFORMATION CALL 800-225-5373

DIMENSIONS: MM [INCHES]
[INCHES] IS FOR REF. ONLY

| DESIGN REFERENCE | | NEXT ASSEMBLY | |
|---------------------------------|-------|----------------------------|------|
| HEADER CODES | | | |
| DIVISION | | DIVISION CODE | EMSD |
| DO NOT SCALE DRAWING | SCALE | TOLERANCES EXCEPT AS NOTED | |
| THIRD ANGLE PROJECTION | | INCHES | |
| INTERPRET PER ASME Y14.5 - 2018 | | MILLIMETERS | |
| MAX. SURFACE ROUGHNESS | | ALL SURFACES | |
| | | MARKED ONLY | |

| | | | | |
|--|-------------|----------------------------|------|------|
| B | 115992 | SEP 24,2024 | JNC | FJR |
| A | 0028103 | MAY 12,2010 | OKC | OKC |
| REV | ECO | ISSUE DATE AND DESCRIPTION | DRFT | CHKD |
| DRFT | CASTIGLIONE | DATE | DATE | DATE |
| CHKD | | DATE | DATE | DATE |
| © 3M COPYRIGHT 2024 | | | | |
| This document and the information it contains are 3M property and may not be reproduced or further distributed without 3M permission, or used or disclosed other than for 3M authorized purposes. All rights reserved. | | | | |
| CONNECTOR FOR CFAST CARD, 7G24 SERIES | | | | |
| CAGE NUMBER | SIZE | DRAWING NO. | REV. | |
| D | | 78-5100-2329-0 | B | |
| MODEL | | | | |
| | | | | |

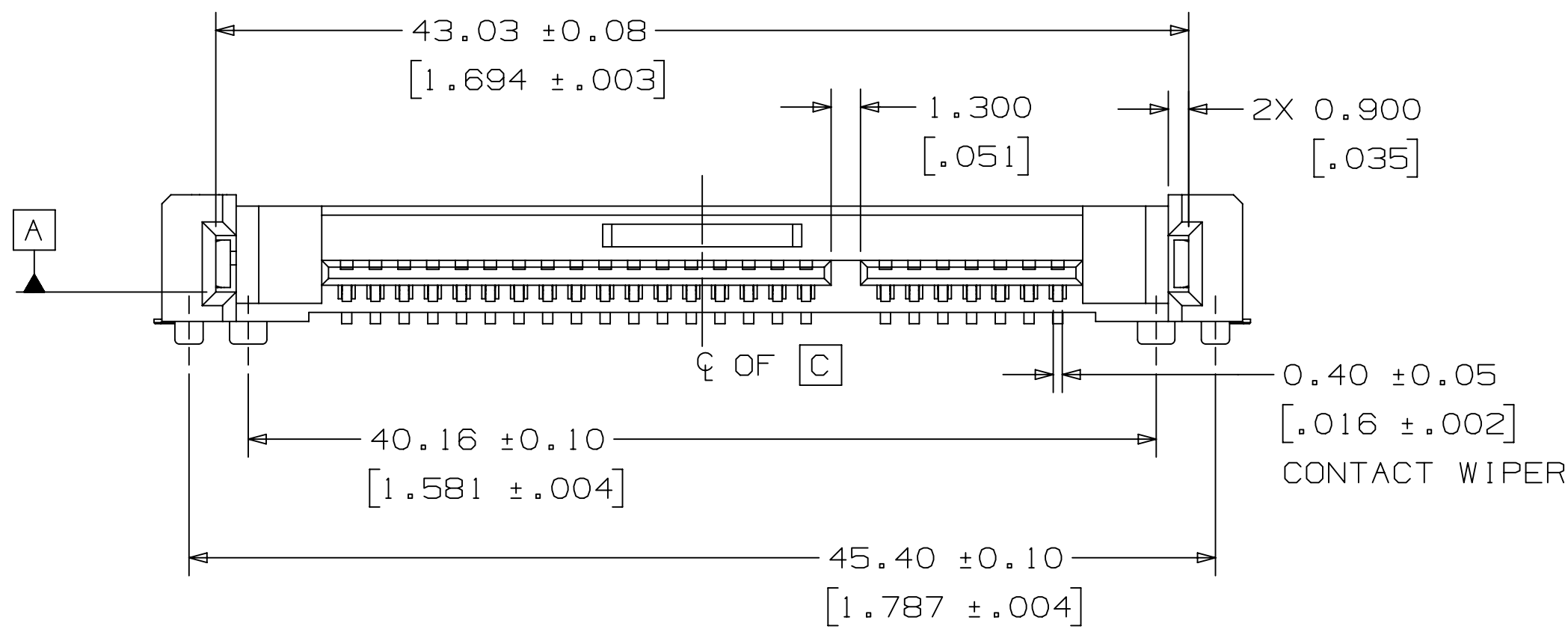
3M™ CONNECTOR FOR CFAST™ CARD, 7G24 SERIES



WITHOUT
STANDOFF

WITH
STANDOFF

| PART No. | DIM. "A" | STANDOFF |
|---------------------|---------------|----------|
| N7G24-A0B2XX-00-XHT | 5.70 [.224] | NO |
| N7G24-A0B2XX-10-XHT | 7.70 [.303] | YES |

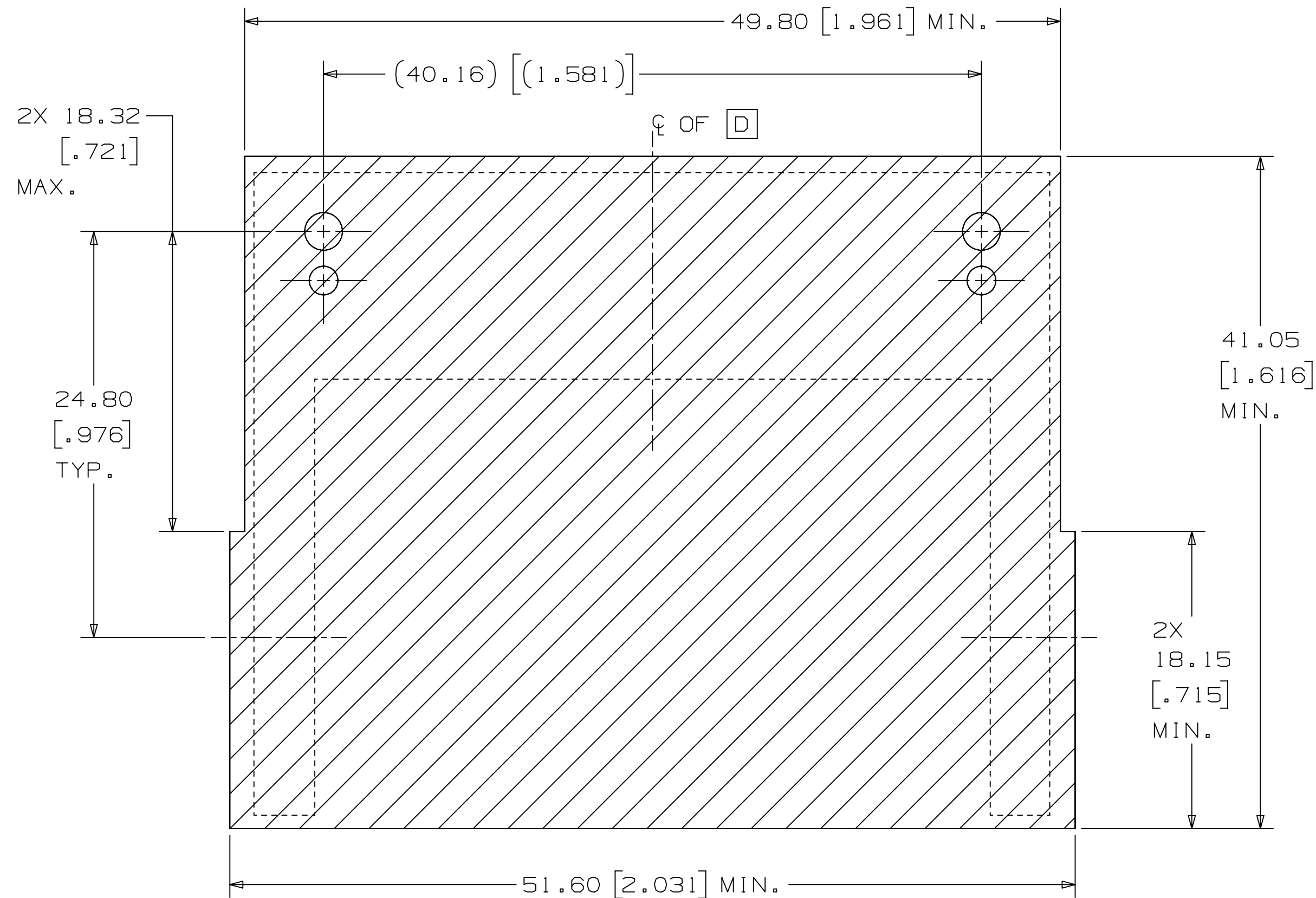


3M ELECTRONICS MATERIALS SOLUTIONS DIVISION
INTERCONNECT SOLUTIONS
<http://www.3M.com/interconnect>

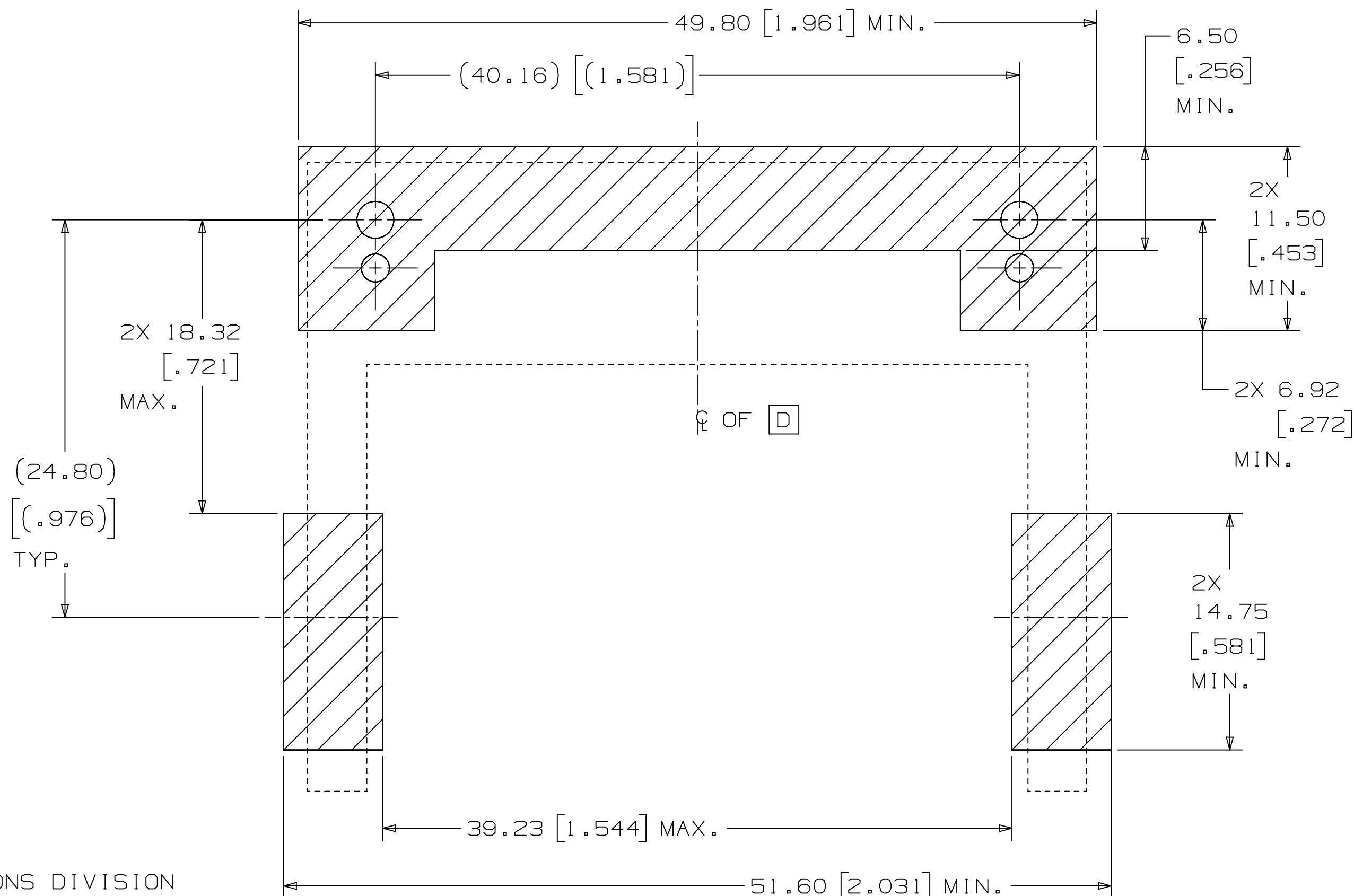
3M IS A TRADEMARK OF 3M COMPANY.
FOR TECHNICAL, SALES OR ORDERING
INFORMATION CALL 800-225-5373

| | | | | | | | | |
|---------------------------------|--|---------------|--|----------------------------|--------|--|------|--------------|
| DESIGN REFERENCE | | NEXT ASSEMBLY | | B | 115992 | SEP 24, 2024 | JNC | FJR |
| A | | 0028103 | | REVISE AND REDRAWN | | MAY 12, 2010 | OKC | OKC |
| REV | | ECO | | ISSUE DATE AND DESCRIPTION | | SEP 24, 2024 | DRFT | CHKD |
| DRFT | | CASTIGLIONE | | DATE | | SEP 24, 2024 | DATE | DATE |
| CHKD | | DATE | | APPR | | F. RODRIGUEZ | DATE | SEP 24, 2024 |
| DIVISION | | DIVISION CODE | | EMSD | | © 3M COPYRIGHT 2024 | | |
| DO NOT SCALE DRAWING | | SCALE | | TOLERANCES EXCEPT AS NOTED | | 3M Center St. Paul, MN 55144 | | |
| THIRD ANGLE PROJECTION | | INCHES | | MILLIMETERS | | This document and the information it contains are 3M property and may not be reproduced or further distributed without 3M permission, or used or disclosed other than for 3M authorized purposes. All rights reserved. | | |
| INTERPRET PER ASME Y14.5 - 2018 | | 0 ±.00 | | 0 ±.00 | | TITLE | | |
| MAX SURFACE ROUGHNESS | | 0 ±.00 | | 0 ±.00 | | CONNECTOR FOR CFAST CARD, 7G24 SERIES | | |
| ALL SURFACES MARKED ONLY | | 0 ±.00 | | 0 ±.00 | | CAGE NUMBER | | |
| ANGLES | | 0 ±.00 | | 0 ±.00 | | D 78-5100-2329-0 | | |
| MODEL | | DET | | YES | | REV. B | | |
| LISTS | | YES | | NO | | SHT 2 OF 4 | | |

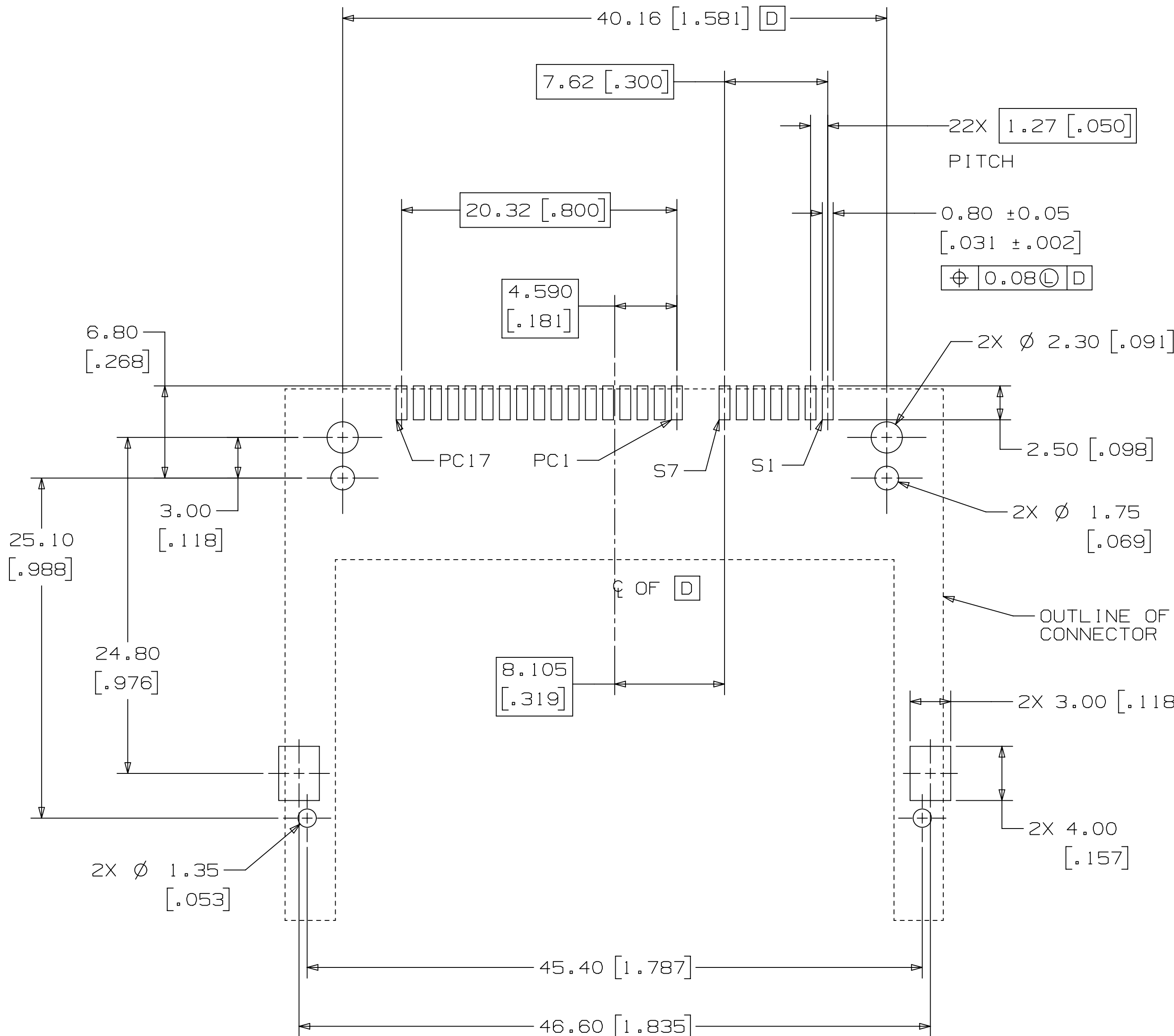
3M™ CONNECTOR FOR CFAST™ CARD, 7G24 SERIES



COMPONENT REFLOW KEEP OUT ZONE
(FOR WITHOUT STANDOFF HEIGHT CONNECTORS)



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



RECOMMENDED PCB HOLE AND PAD PATTERN
THICKNESS 1.65 [.066] NOMINAL
TOLERANCE ± 0.05 [.002]

3M ELECTRONICS MATERIALS SOLUTIONS DIVISION
INTERCONNECT SOLUTIONS
<http://www.3M.com/interconnect>

3M IS A TRADEMARK OF 3M COMPANY.
FOR TECHNICAL, SALES OR ORDERING
INFORMATION CALL 800-225-5373

| | | | | | | | | | | | | | |
|-----------------------|--|---------------|--|----------------|--|------------------------|--|----------------------------|--|-------------------|--|-------------|--|
| DESIGN REFERENCE | | NEXT ASSEMBLY | | REV | | ECO | | ISSUE DATE AND DESCRIPTION | | DRFT | | CHKD | |
| XREF | | XREF | | DRFT | | CAST | | GLIONE | | DATE | | DATE | |
| DIVISION | | DIVISION CODE | | EMSD | | TOLERANCES | | EXCEPT AS | | NOTED | | INCHES | |
| DO NOT | | SCALE | | DRAWING | | THIRD ANGLE PROJECTION | | INTERPRET PER | | ASME Y14.5 - 2018 | | MILLIMETERS | |
| MAX SURFACE ROUGHNESS | | R | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | |
| MARKED ONLY | | YES | | NO | | SHT 3 OF 4 | | REV | | B | | REV | |
| CAGE NUMBER | | D | | 78-5100-2329-0 | | REV | | B | | REV | | B | |
| MODEL | | LISTS | | YES | | NO | | SHT 3 OF 4 | | REV | | B | |

Regulatory: For regulatory information about this product, visit 3M.com/regs or contact your 3M representative.

Technical Information: The technical information, guidance, and other statements contained in this document or otherwise provided by 3M are based upon records, tests, or experience that 3M believes to be reliable, but the accuracy, completeness, and representative nature of such information is not guaranteed. Such information is intended for people with knowledge and technical skills sufficient to assess and apply their own informed judgment to the information. No license under any 3M or third party intellectual property rights is granted or implied with this information.

Product Use: Many factors beyond 3M's control and uniquely within user's knowledge and control can affect the use and performance of a 3M product in a particular application. As a result, customer is solely responsible for evaluating the product and determining whether it is appropriate and suitable for customer's application, including conducting a workplace hazard assessment and reviewing all applicable regulations and standards (e.g., OSHA, ANSI, etc.). Failure to properly evaluate, select, and use a 3M product in accordance with all applicable instructions and with appropriate safety equipment, or to meet all applicable safety regulations, may result in injury, sickness, death, and/or harm to property.

Warranty, Limited Remedy, and Disclaimer: Unless a different warranty is specifically stated on the applicable 3M product packaging or product literature (in which case such warranty governs), 3M warrants that each 3M product meets the applicable 3M product specification at the time 3M ships the product. 3M MAKES NO OTHER WARRANTIES OR CONDITIONS, EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OR CONDITION OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, OR ANY IMPLIED WARRANTY OR CONDITION ARISING OUT OF A COURSE OF DEALING, CUSTOM, OR USAGE OF TRADE. If a 3M product does not conform to this warranty, then the sole and exclusive remedy is, at 3M's option, replacement or repair of the 3M product or refund of the purchase price.


Limitation of Liability: Except for the limited remedy stated above, and except to the extent prohibited by applicable law, 3M will not be liable for any loss or damage arising from or related to the 3M product, whether direct, indirect, special, incidental, or consequential (including, but not limited to, lost profits or business opportunity), regardless of the legal or equitable theory asserted, including, but not limited to, warranty, contract, negligence, or strict liability.

Disclaimer: For industrial use only. Not intended, labeled or packaged for consumer sale or use.

3M Company
Electronics Materials Solutions Division
13011 McCallen Pass, Bldg. C
Austin, TX 78753-5380
1-800-225-5373
www.3M.com/interconnect

3M ELECTRONICS MATERIALS SOLUTIONS DIVISION
INTERCONNECT SOLUTIONS
<http://www.3M.com/interconnect>

3M IS A TRADEMARK OF 3M COMPANY.
FOR TECHNICAL, SALES OR ORDERING
INFORMATION CALL 800-225-5373

| | | | | | | | | | |
|---------------------------------|--|----------------------------|--|--|--|----------------|--|---|--|
| B | | 115992 | | SEP 24, 2024 | | JNC | | FJR | |
| A | | 0028103 | | REVISE AND REDRAWN | | MAY 12, 2010 | | OKC OKC | |
| DESIGN REFERENCE | | | | NEXT ASSEMBLY | | | | | |
| REV | | ECO | | ISSUE DATE AND DESCRIPTION | | | | DATE | |
| CHD | | CASTIGLIONE | | DATE SEP 24, 2024 | | | | MFG DATE | |
| DIVISION | | DIVISION CODE | | APPR. | | | | DATE | |
| DO NOT SCALE DRAWING | | EMSD | | F. RODRIGUEZ | | | | SEP 24, 2024 | |
| SCALE | | TOLERANCES EXCEPT AS NOTED | |  3M Center St. Paul, MN 55144 | | | | © 3M COPYRIGHT 2024 This document and the information it contains are 3M property and may not be reproduced or further distributed without 3M permission, or used or disclosed other than for 3M authorized purposes. All rights reserved. | |
| THIRD ANGLE PROJECTION | | INCHES | | TITLE | | | | | |
| INTERPRET PER ASME Y14.5 - 2018 | | MILLIMETERS | | CONNECTOR FOR CFAST CARD, 7G24 SERIES | | | | | |
| MAX SURFACE ROUGHNESS | | 0.00 ± .25 | | CASE NUMBER | | SIZE | | DRAWING NO. | |
| ALL SURFACES | | 0.00 ± 0.15 | | D | | 78-5100-2329-0 | | REV. B | |
| MARKED ONLY | | 0.00 ± .05 | | MODEL | | DET. LISTS | | YES <input checked="" type="checkbox"/> NO <input type="checkbox"/> | |
| | | ANGLES | | | | SHT 4 OF 4 | | | |