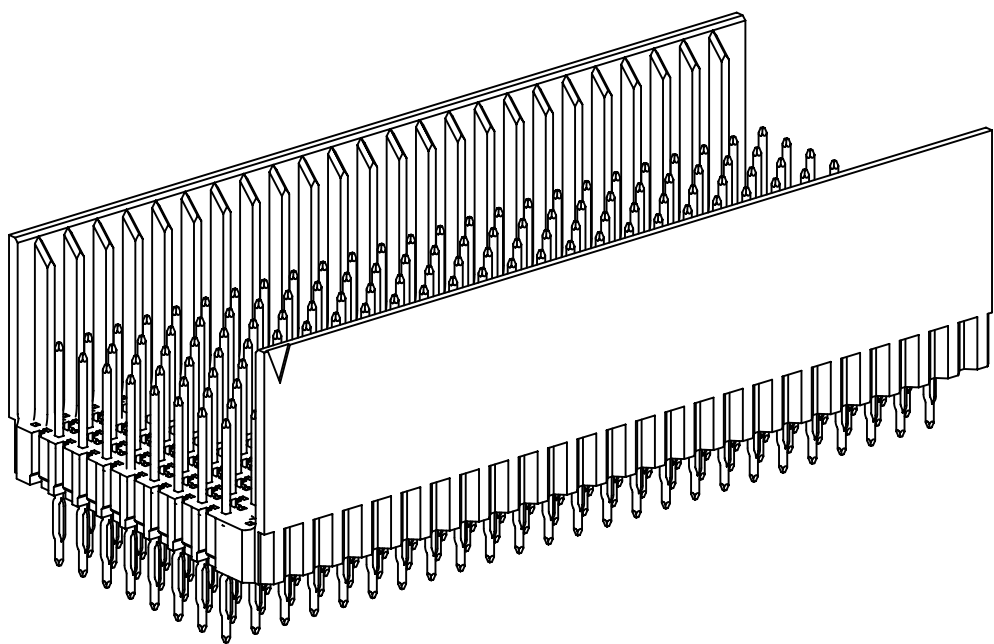
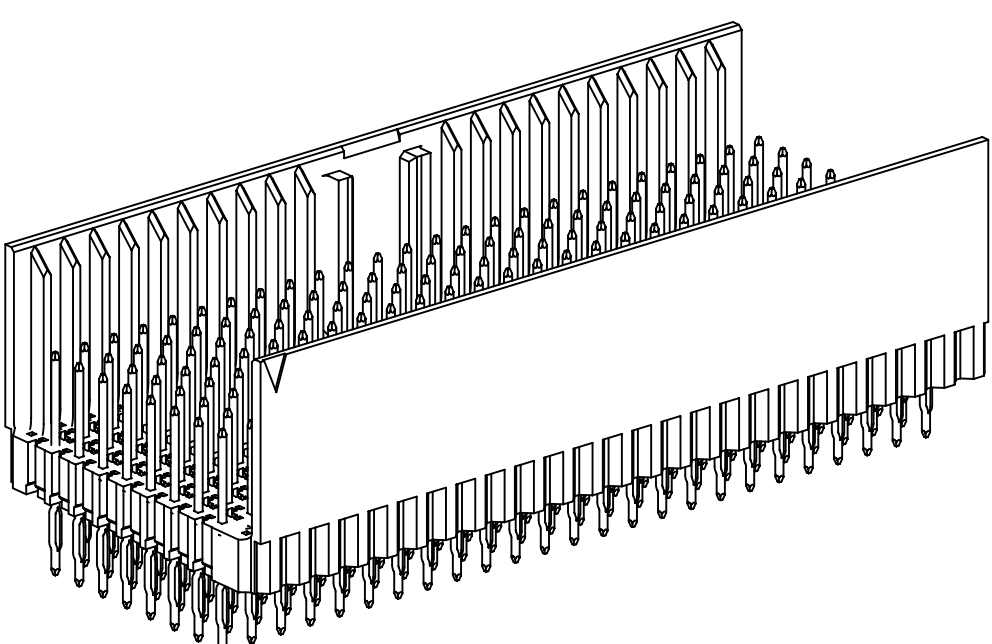


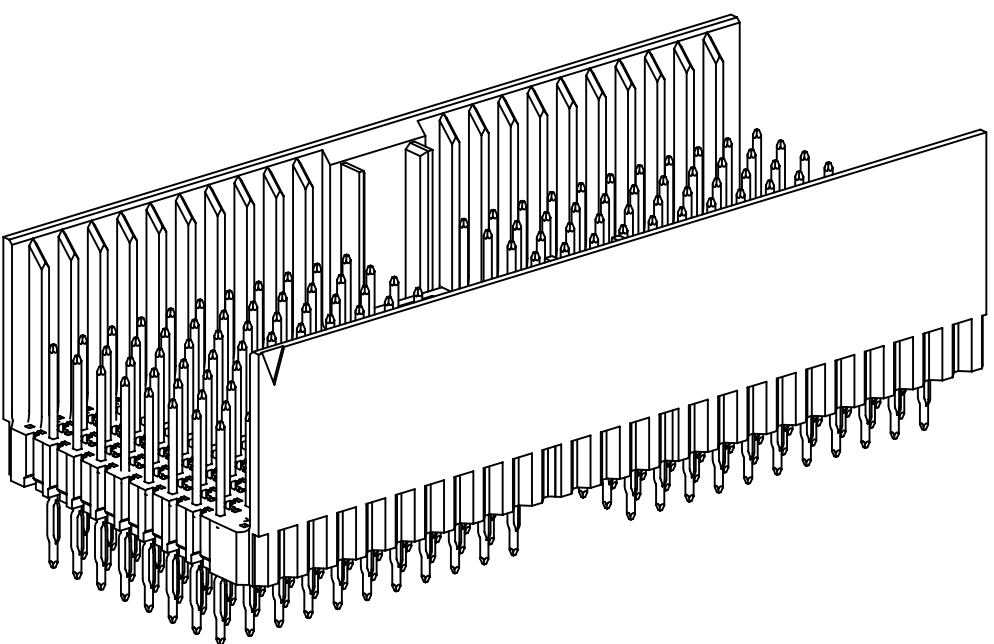
3M™ HM PRESS-FIT HEADER, 8-ROW, HM SERIES
FOR HARD METRIC APPLICATIONS



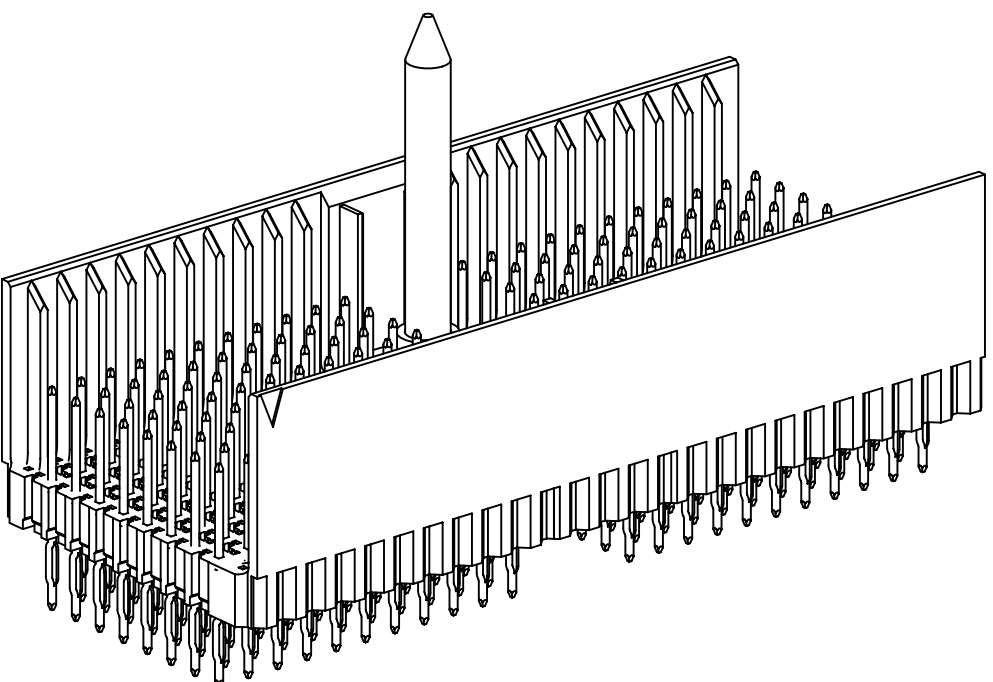
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HM-H244E2-8BX1



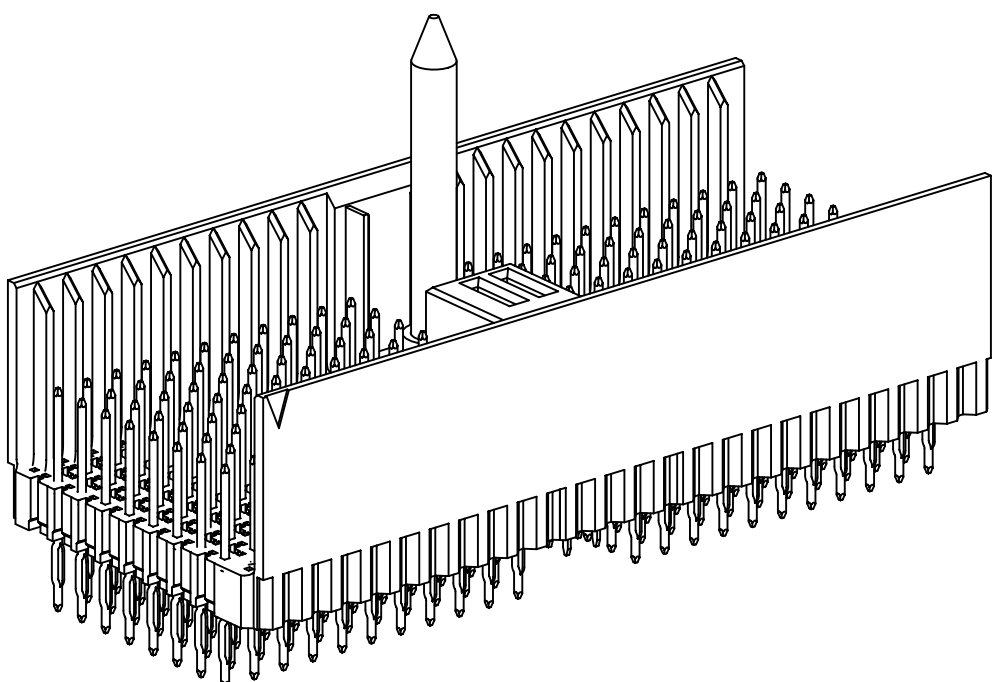
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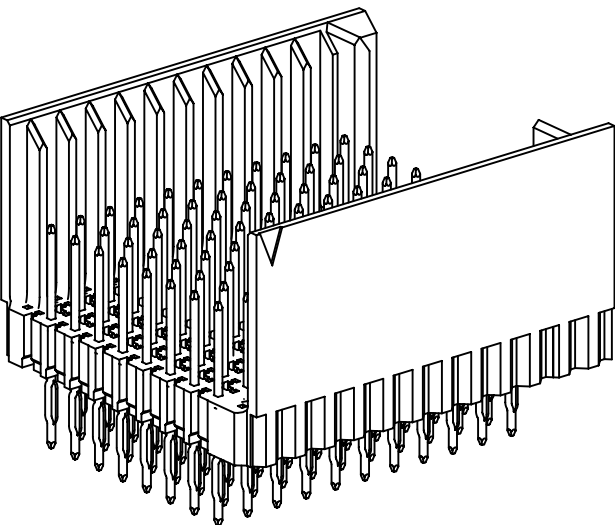
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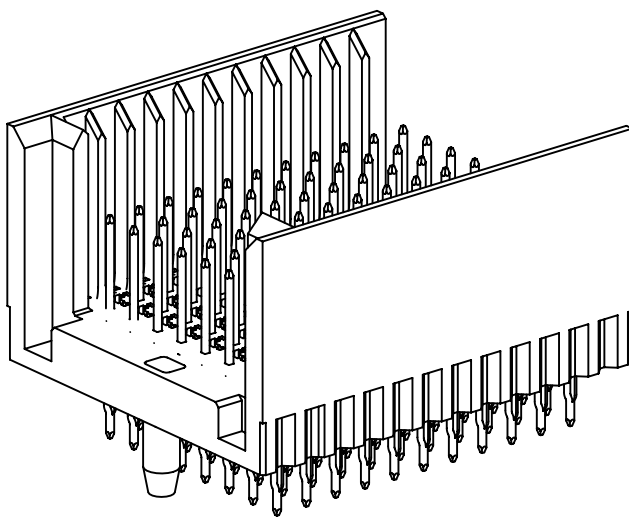
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HM-H220DG2-8BX1



HM-H176DPWR1-8CX1
HM-H220DPWR2-8BX1



HM-H088FL1-8CX1
HM-H110FL2-8BX1



HM-H088FR1-8CX1
HM-H110FR2-8BX1

(UNLESS OTHERWISE SHOWN)
ORDERING INFORMATION
(ROWS 1 AND Z NOT LOADED)

HM-HXXXXX1-8CX1-XXXXX

HEADER POSITION AND TYPE

TAIL STYLE:
P = PRESS-FIT TAIL
S = SOLDER TAIL

PLATING

(UNLESS OTHERWISE SHOWN)
ORDERING INFORMATION
(ROWS 1 AND Z LOADED, 8.3MM MATE LENGTH)

HM-HXXXXX2-8BX1-XXXXX

HEADER POSITION AND TYPE

TAIL STYLE:
P = PRESS-FIT TAIL
S = SOLDER TAIL

PLATING

PLATING SPECIFICATIONS:

- TG30L = .76µM [30µIN] MIN. GOLD ON CONTACT AREA, LUBRICATED
2.54µM [100µIN] MIN. TIN/LEAD ON TERMINAL AREA (RIA C2 & E2 APPLY)
1.27µM [50µIN] MIN. NICKEL ALL OVER.
TYPICALLY HIGHER MAKE ORDER QUANTITIES AS COMPARED TO TG30.
- TG30 = .76µM [30µIN] MIN. GOLD ON CONTACT AREA
2.54µM [100µIN] MIN. TIN/LEAD ON TERMINAL AREA (RIA C2 & E2 APPLY)
1.27µM [50µIN] MIN. NICKEL ALL OVER.
STANDARD OPTION.
- TG50 = 1.27µM [50µIN] MIN. GOLD ON CONTACT AREA, LUBRICATED
2.54µM [100µIN] MIN. TIN/LEAD ON TERMINAL AREA (RIA C2 & E2 APPLY)
1.27µM [50µIN] MIN. NICKEL ALL OVER.
NON-STANDARD OPTION (AVAILABLE WITH LONGER LEAD TIMES AND HIGHER MAKE ORDER QUANTITIES, MOQ)
- KR = .76µM [30µIN] MIN. GOLD ON CONTACT AREA
2.54µM [100µIN] MIN. MATTE TIN ON TERMINAL AREA (RIA C2 & E2 APPLY)
1.27µM [50µIN] MIN. NICKEL ALL OVER.

- * MODULAR/SCALABLE FORMAT IEC 61076-4-101
- * PRESS-FIT OF SOLDER TAIL VERSION
- * 101 MATED LINES PER INCH
- * SHIPS WITH PROTECTIVE CAP, WHICH ALSO SERVES AS AN INSERTION TOOL
- * END-TO-END STACKABLE WITH 8 ROW 3M™ HM AND HSHM PRODUCTS
- * INTEGRATED GUIDE AND GUIDE PIN
- * MULTI-PURPOSE CENTER (MPC) KEYING AND GUIDANCE
- * FOUR INTEGRATED 8.25 A POWER CONTACTS AND GUIDE PIN

- NOTES
- MATERIAL:
PLASTIC: HIGH TEMP LCP, UL94V-0
PINS: COPPER ALLOY.
 - REGULATORY INFORMATION:
ROHS COMPLIANT. SEE THE REGULATORY INFORMATION APPENDIX (RIA) IN THE "ROHS COMPLIANCE" SECTION OF WWW.3MCONNECTORS.COM FOR COMPLIANCE INFORMATION (RIA E1 & C1 APPLY)
 - IN THE EVENT OF CONFLICT BETWEEN THIS DATA AND THAT CONTAINED IN THE PRODUCT SPECIFICATION, THE PRODUCT SPECIFICATION TAKES PRECEDENT.

3 MECHANICAL:

NORMAL FORCE (NOMINAL): .57N [58g] SIGNAL
ENGAGEMENT FORCE (NOMINAL): .32N [33g] SIGNAL
SEPARATION FORCE (NOMINAL): .20N [20g] SIGNAL
WIPE (NOMINAL, SHORTEST CONTACT): 2.67 [.105] SIGNAL
MATE/UNMATE CYCLES: 250
APPLICATION: THIS MODULE IS NOT SUITABLE FOR STAND-ALONE USE. (REFER TO IEC-61076-4-101)

3 ELECTRICAL:

CURRENT RATING (FULLY LOADED): 1A @ 70°C SIGNAL
INSULATION RESISTANCE: $1 \times 10^4 \text{ M}\Omega$ @ 100 V_{DC}
WITHSTANDING VOLTAGE: 750V_{RMS}

3 ENVIRONMENTAL:

TEMPERATURE RATING: -55°C TO 125°C
PROCESS RATING: MAX. 260°C (PER J-STD-020C)
WITHSTANDING VOLTAGE: 1 (PER J-STD-020C)

3M™ ELECTRONIC SOLUTIONS DIVISION
INTERCONNECT SOLUTIONS
<http://www.3mconnectors.com>

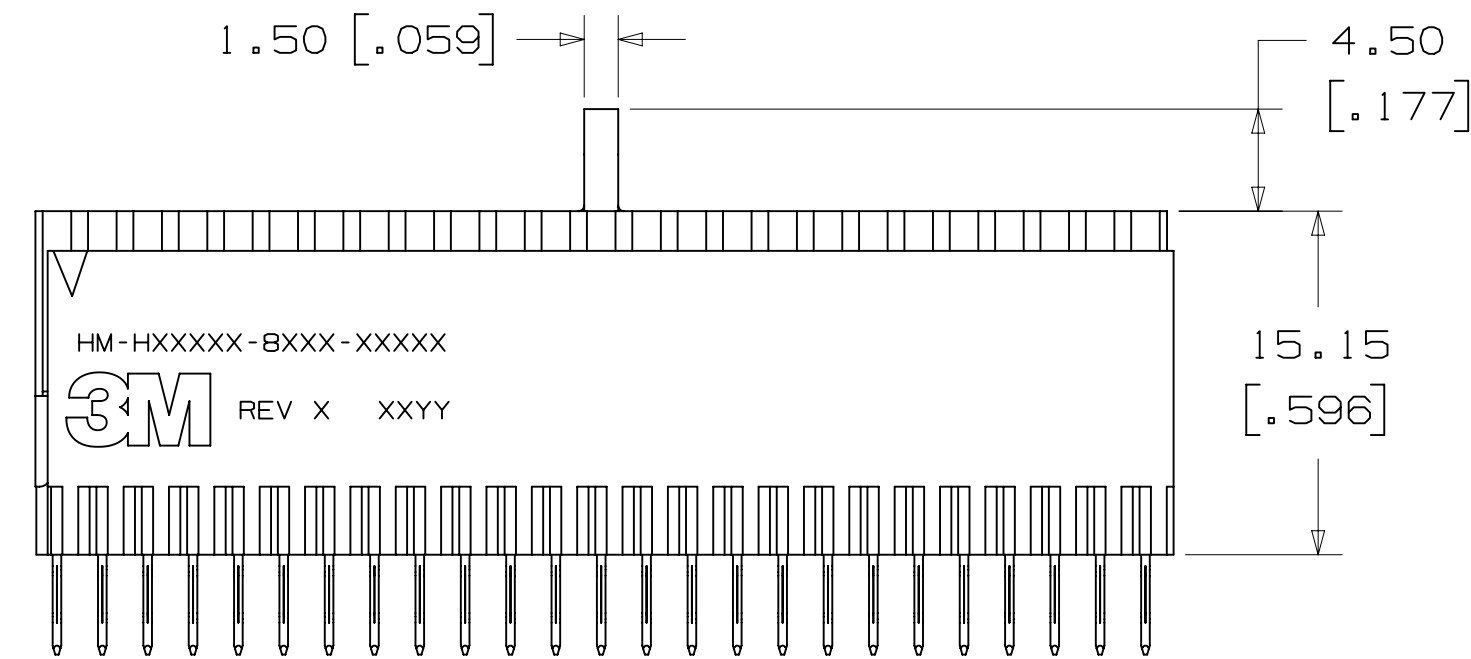
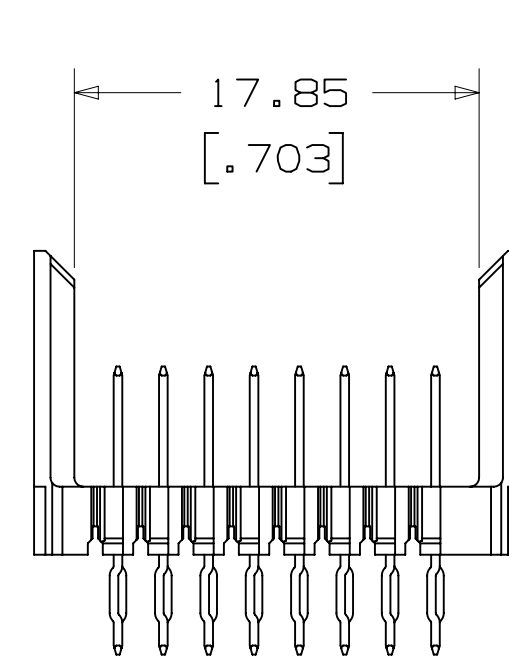
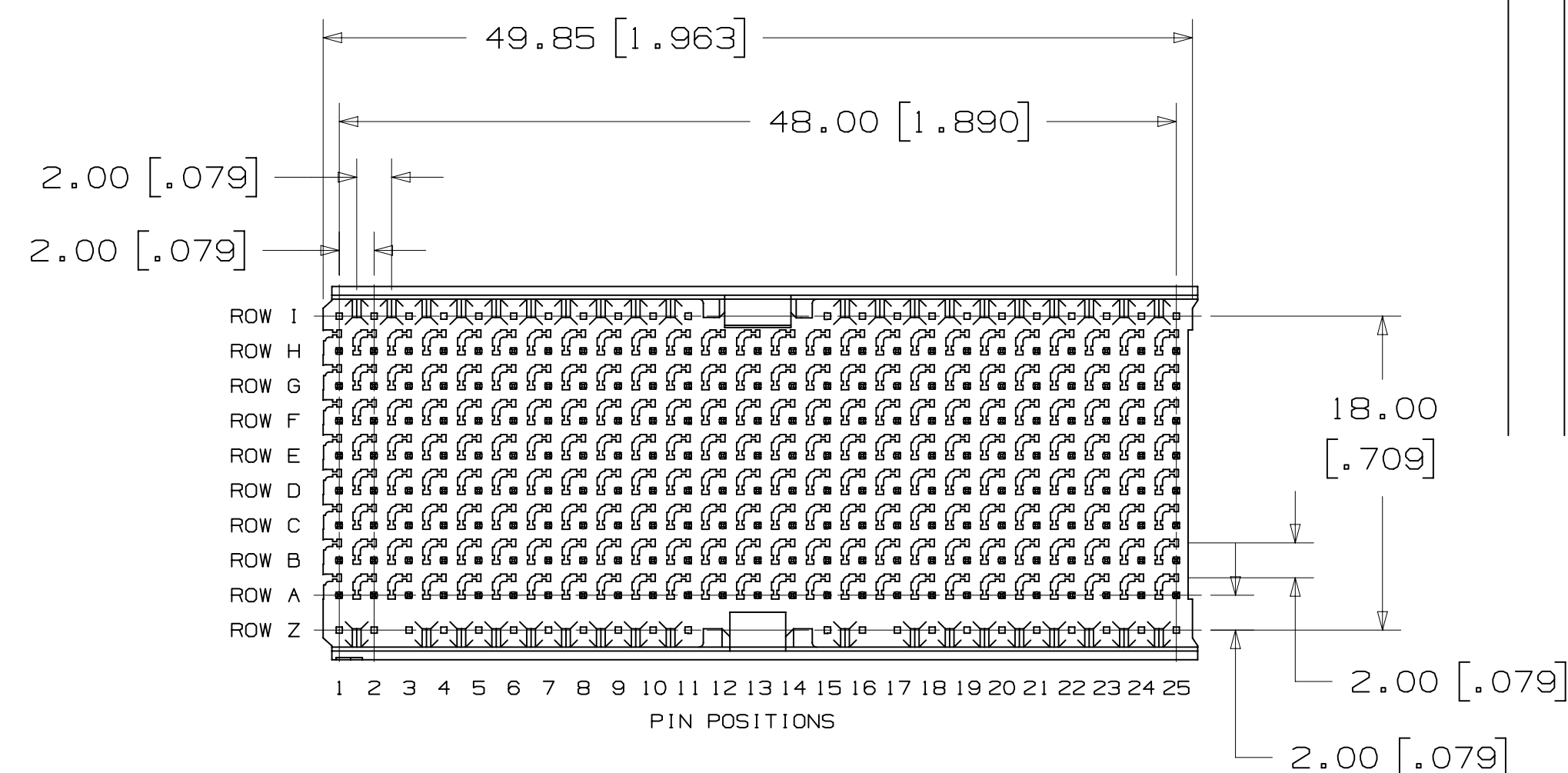
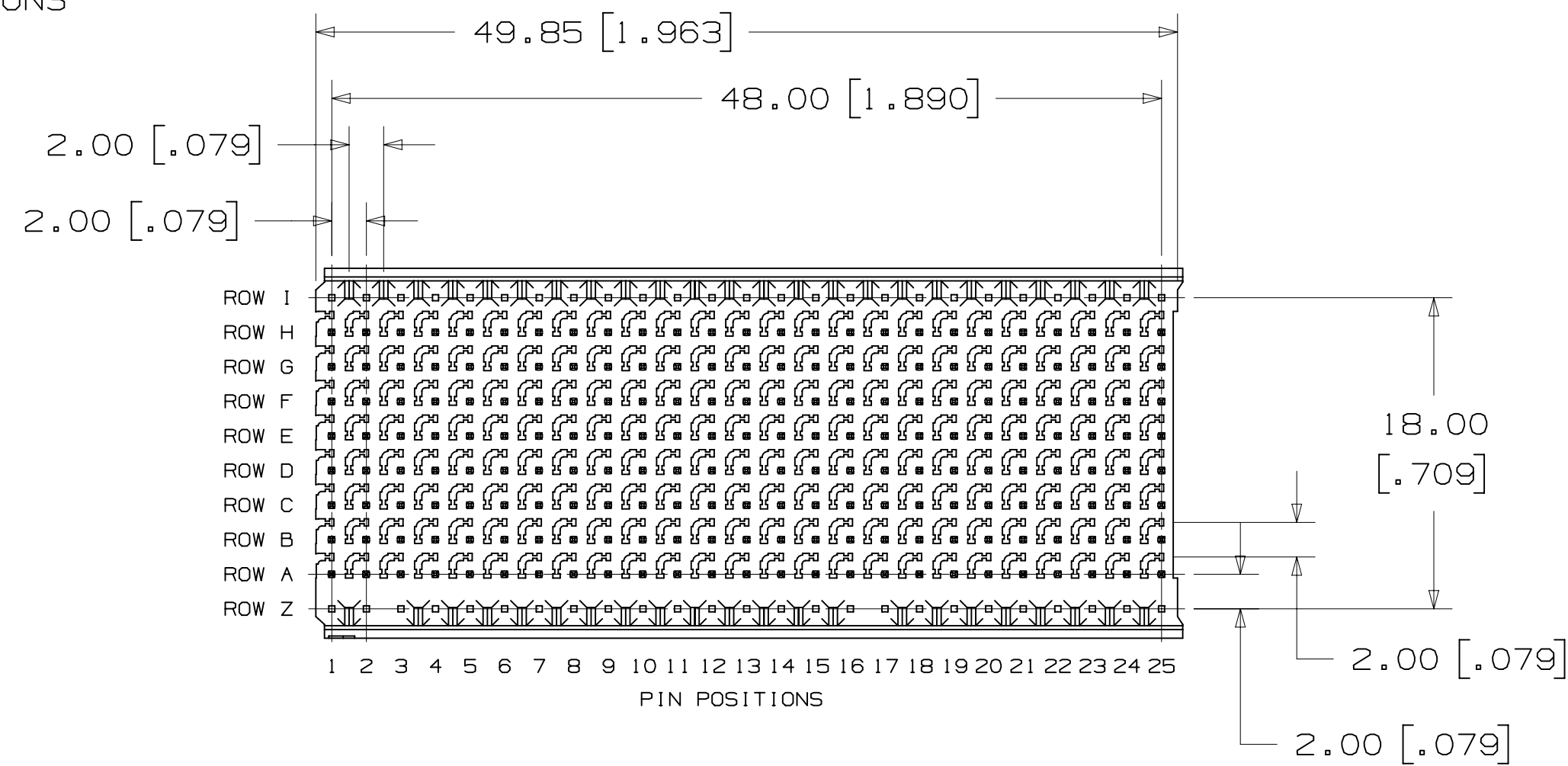
3M IS A TRADEMARK OF 3M COMPANY.
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INFORMATION CALL 800-225-5373

UL
UL FILE NO: E68080

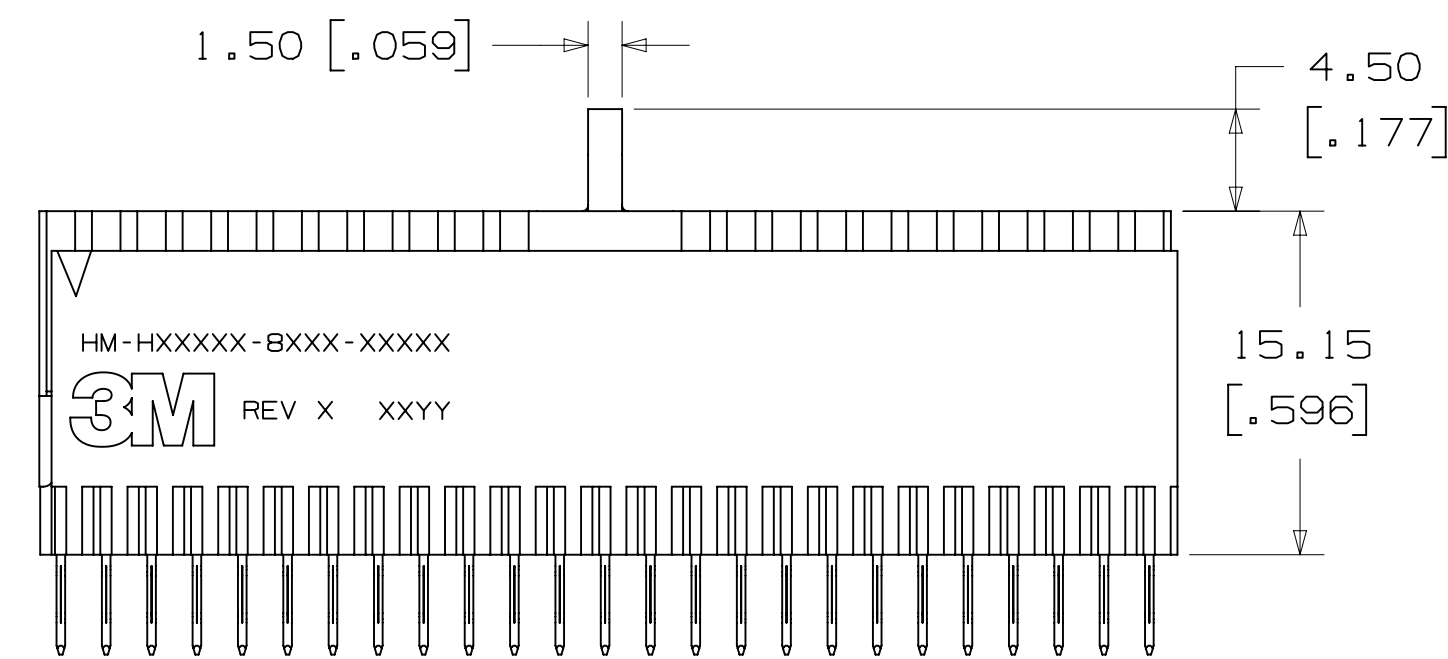
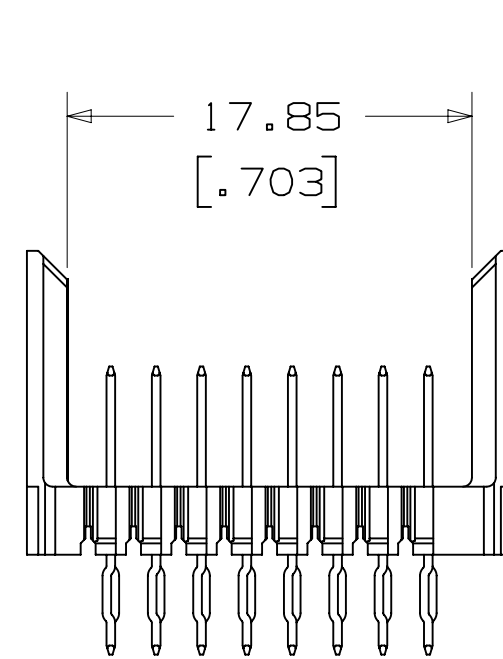
DIMENSIONS: MM [INCHES]		A	39815	MAR 28,2012		JNC	TS
DESIGN REFERENCE		REV	ECO	ISSUE DATE AND DESCRIPTION		DRFT	CHKD
NEXT ASSEMBLY		DATE		MFG		DATE	
DIVISION		DATE		MFG		DATE	
Interconnect Solutions		MAR 28,2012		T. SUNIGA		MAR 28,2012	
DO NOT SCALE DRAWING		SCALE 5/2		TOLERANCES EXCEPT AS NOTED		INCHES	
THIRD ANGLE PROJECTION		INTERPRET PER ASME Y14.5 - 1994		MILLIMETERS		.00 ± .01 .000 ± .005 .0000 ± .0000	
MAX SURFACE ROUGHNESS		SURFACES		.00 ± .03 .000 ± .013 .000 ± .000		MILLIMETERS	
MARKED ONLY		ANGLES		3M		© 3M COPYRIGHT 2012	
TITLE		HM PRESS-FIT HEADER, 8-ROW, HM SERIES		CAGE NUMBER		DRAWING NO.	
MODEL		D		78-5100-2517-0		REV.	
LISTS		YES		NO		SHT 1 OF 4	

3M™ HM PRESS-FIT HEADER, 8-ROW, HM SERIES

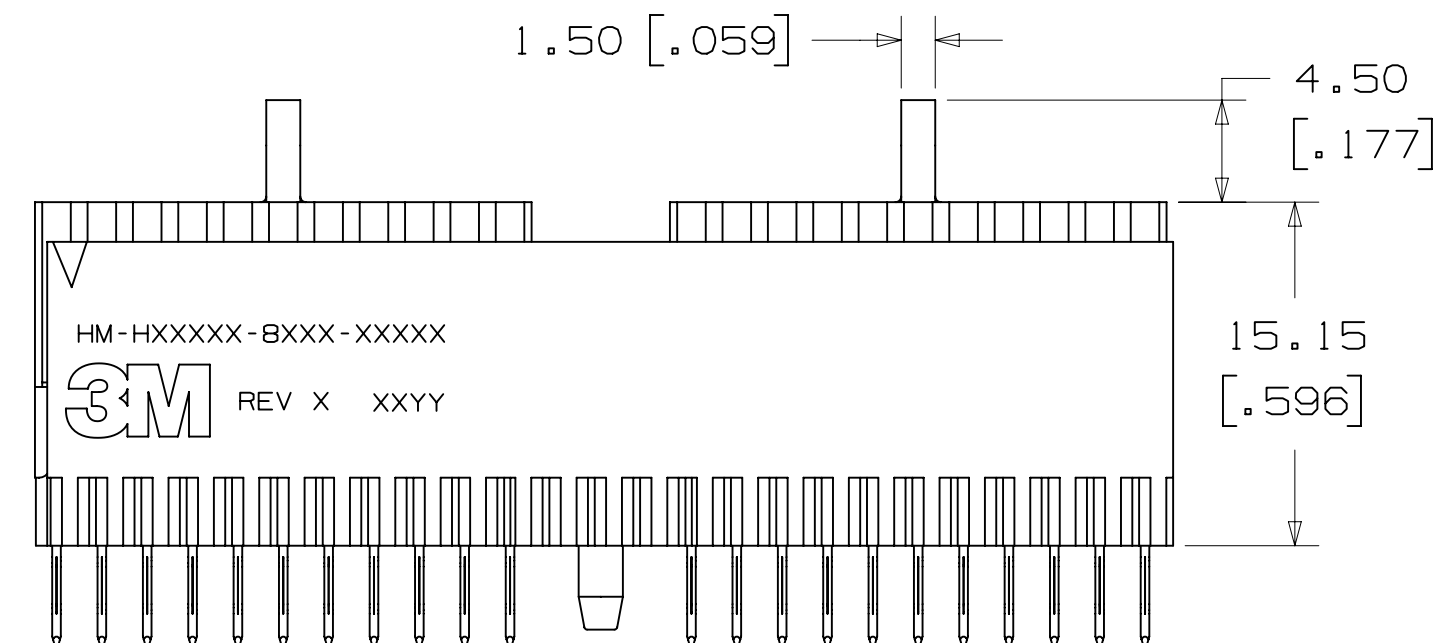
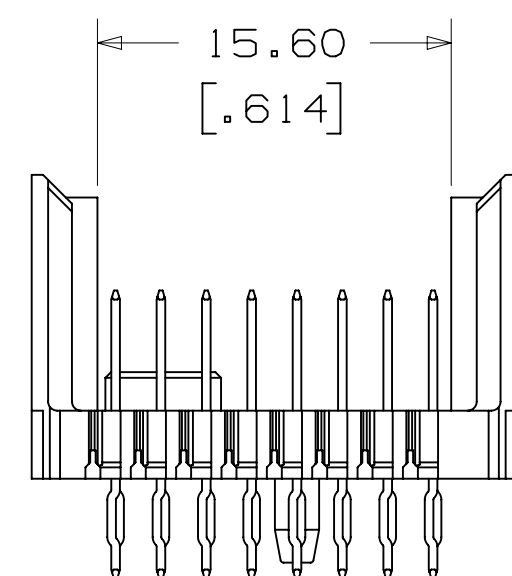
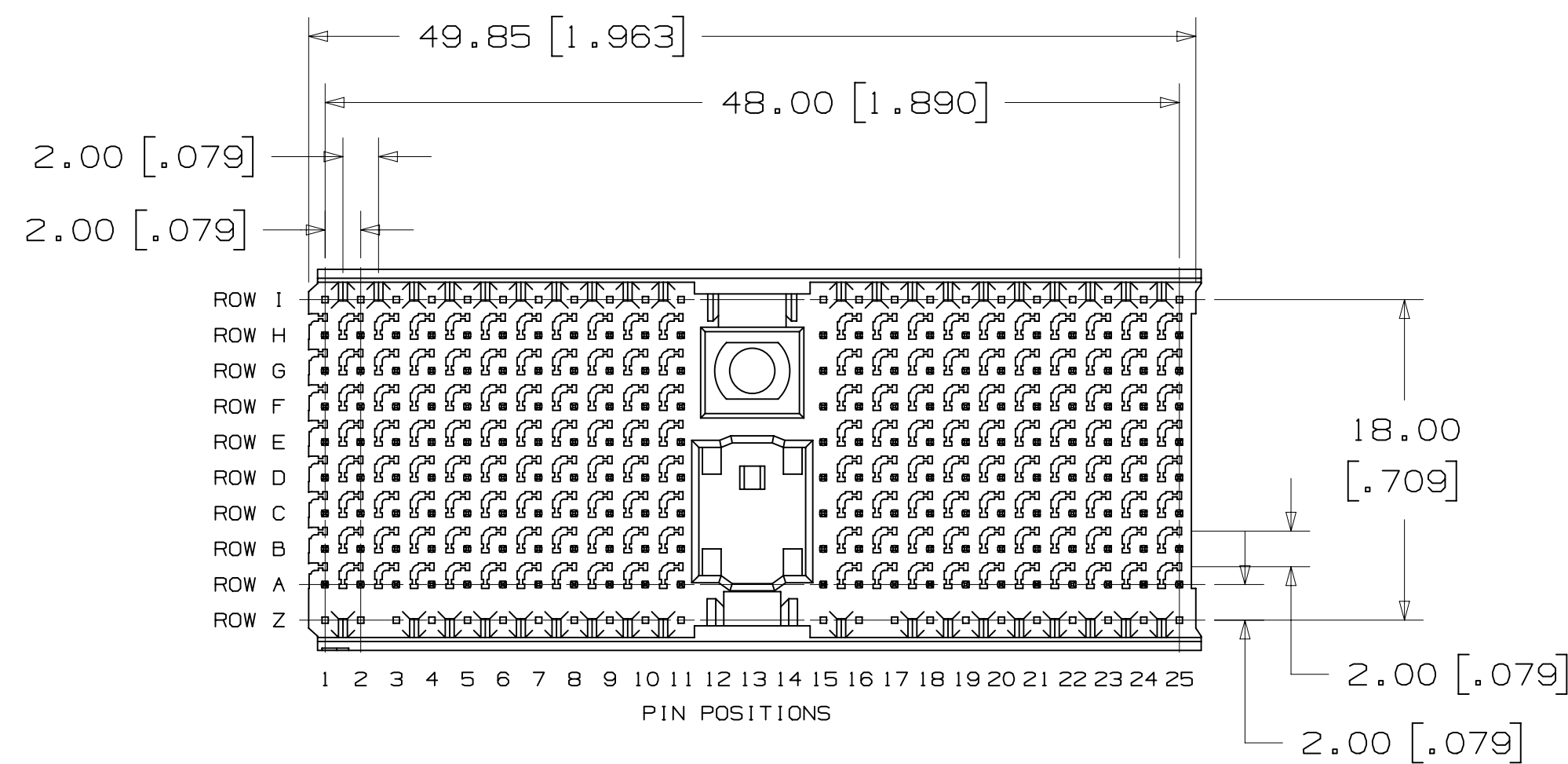
NOTES	
1	CAPS TO BE REMOVED AFTER PRESS-FIT INSTALLATION PROCESS.



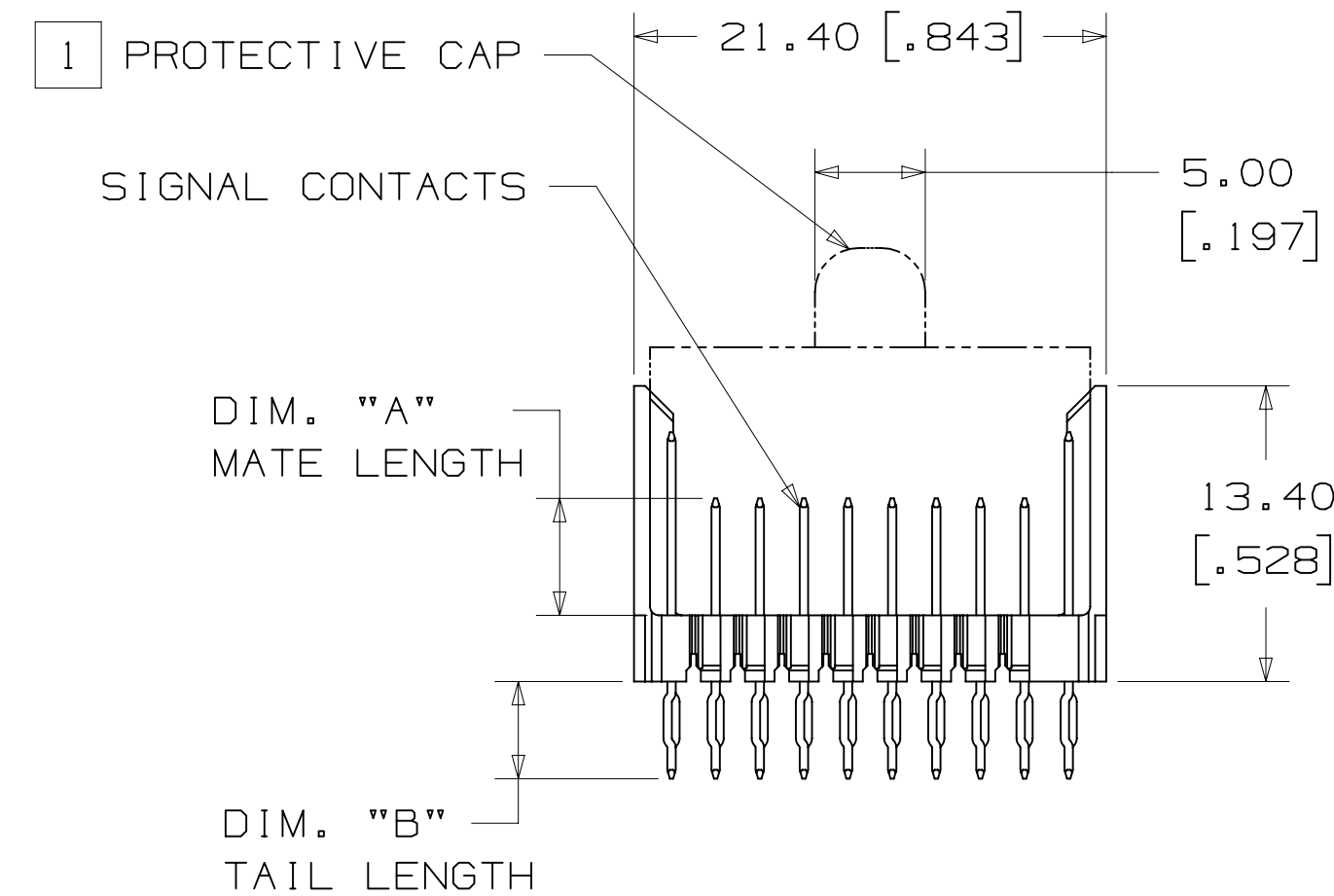
HM-H200E1-8CX1
HM-H244E2-8BX1



HM-H200DE1-8CX1
HM-H244DE2-8BX1



HM-H176D1-8CX1
HM-H220D2-8BX1



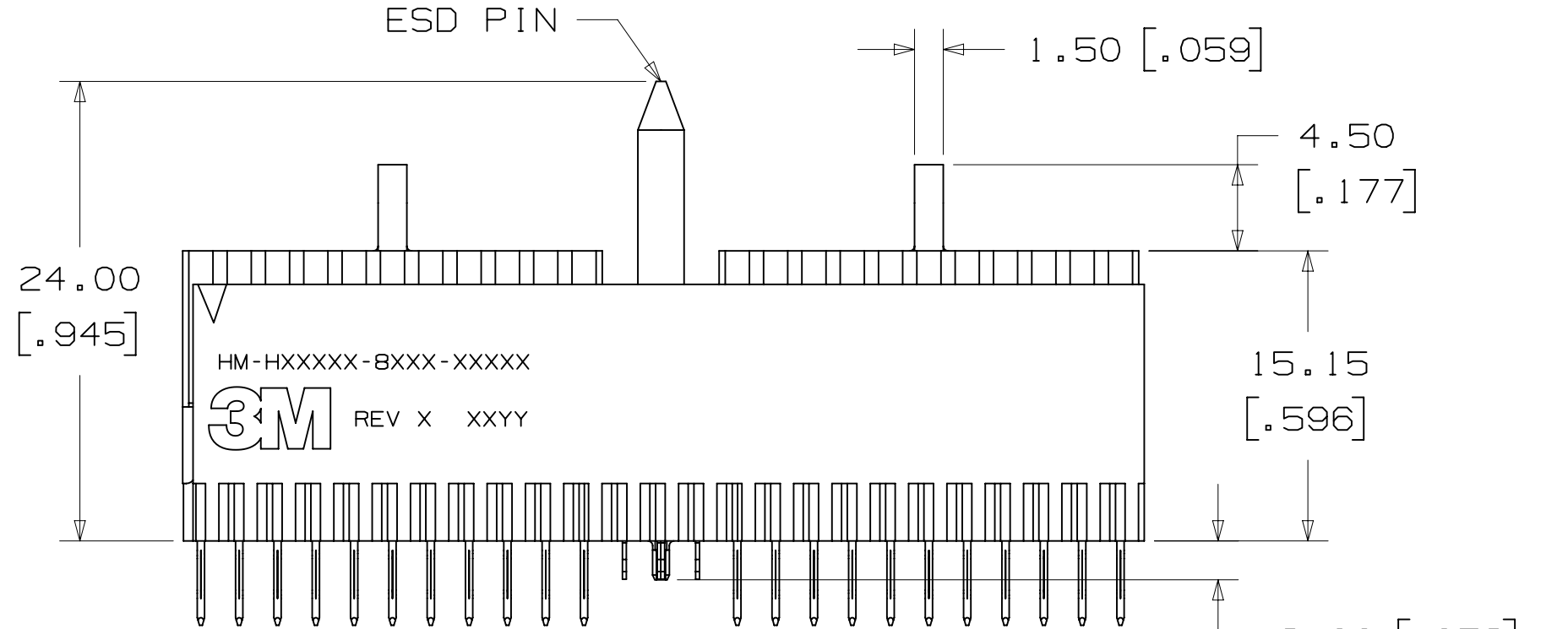
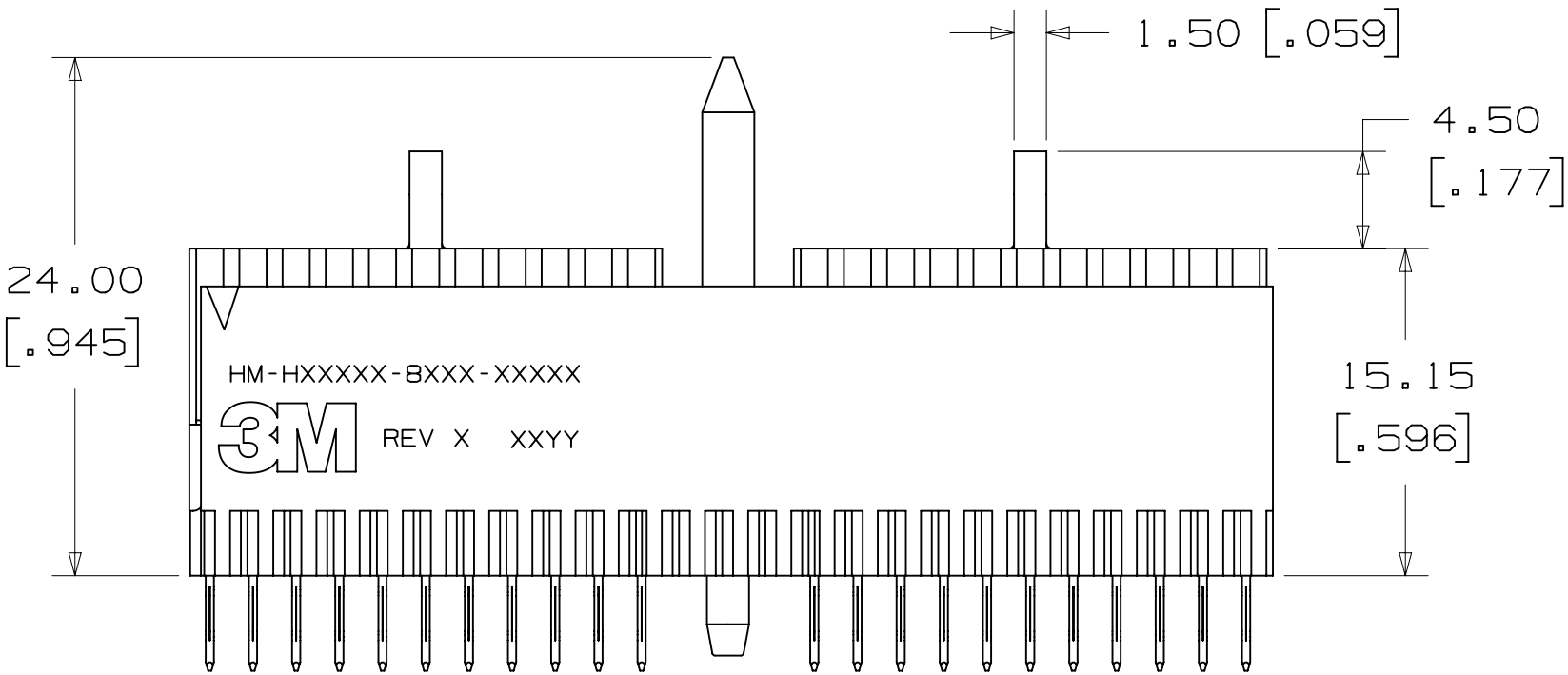
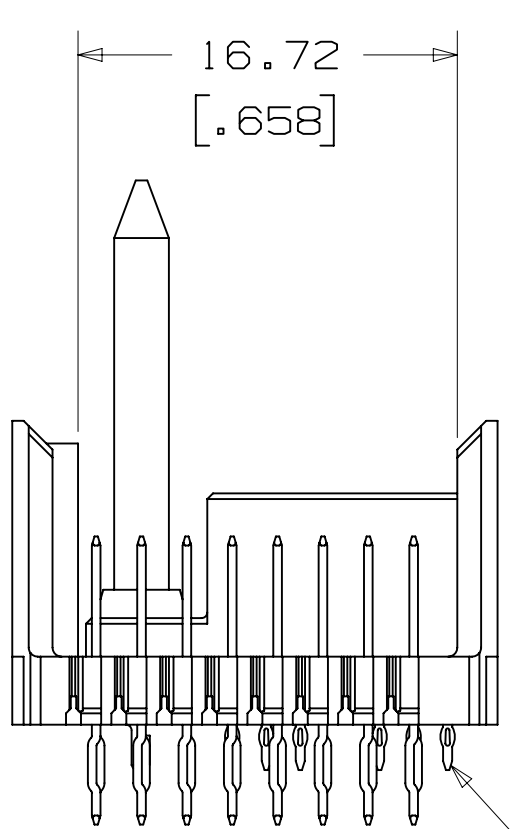
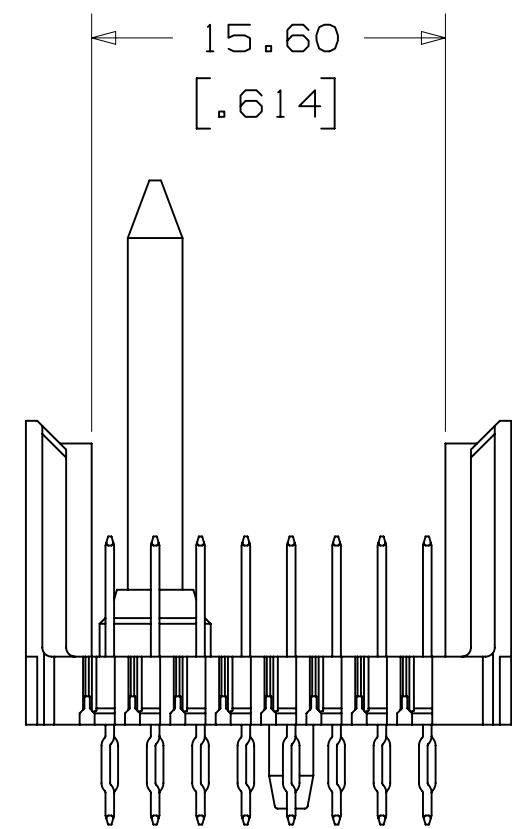
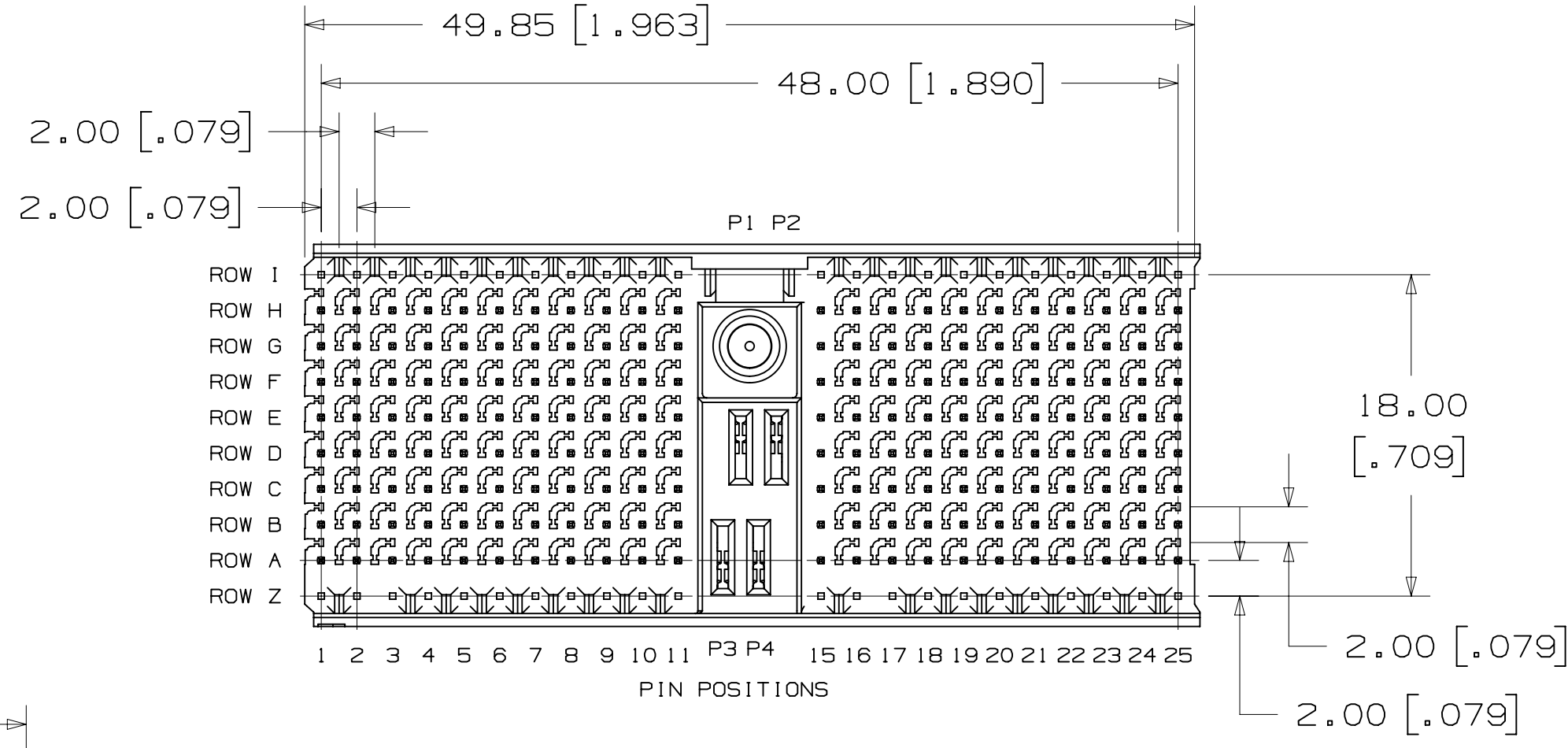
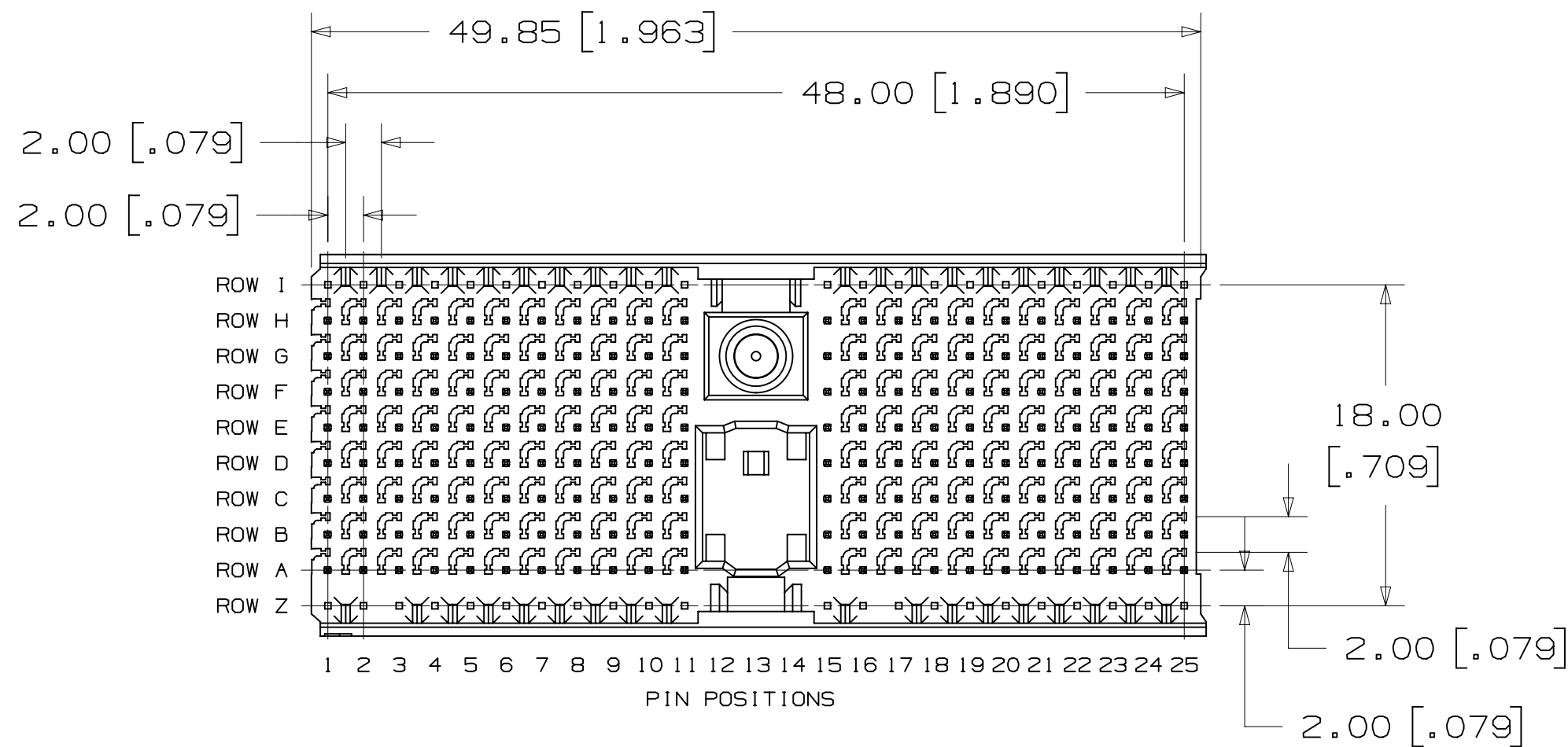
TYPICAL SIDE VIEW
DIMENSIONS FOR THE
HEADERS ON THIS DRAWING

STANDARD CONFIGURATION		
DIM. "A"	5.3 [.21]	FOR ROWS A THRU H
DIM. "B"	4.4 [.17]	EXCEPT AS NOTED

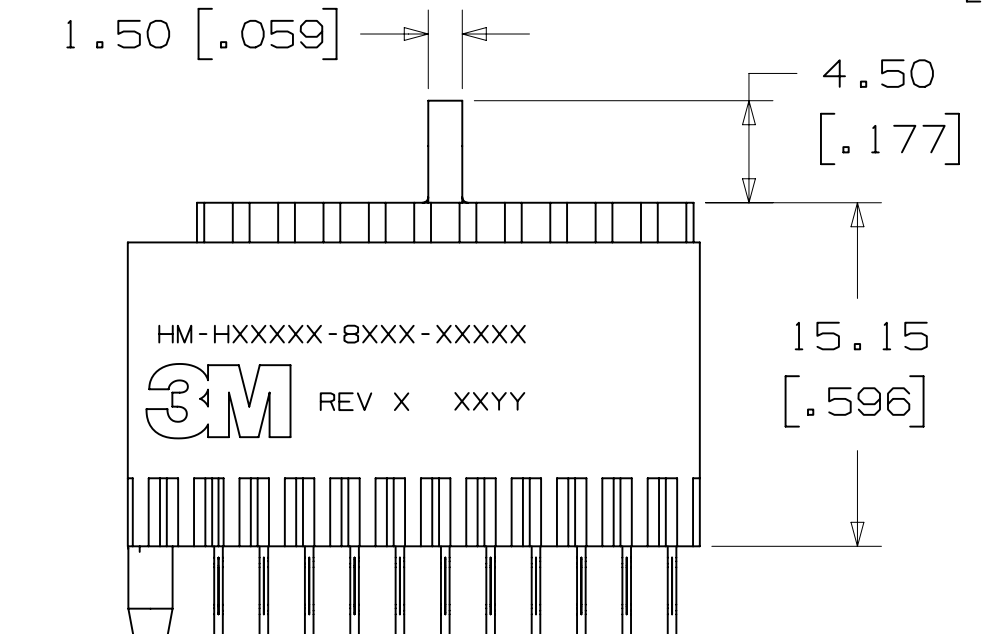
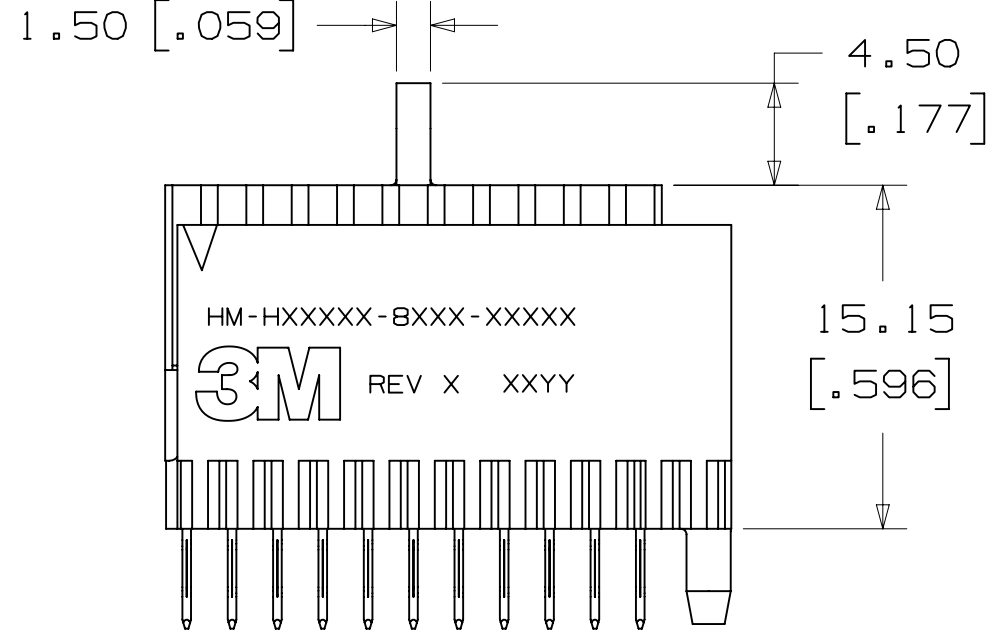
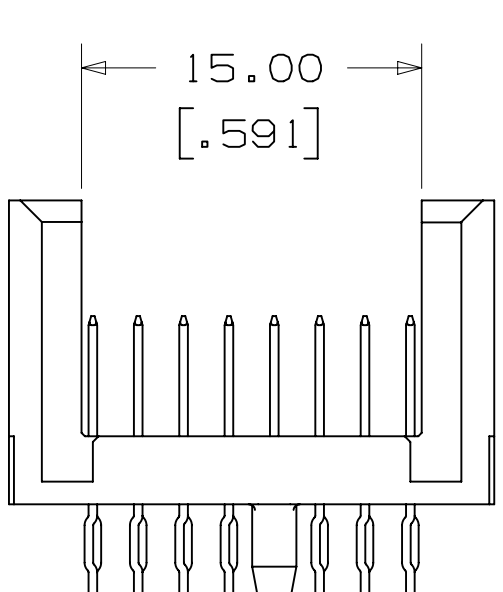
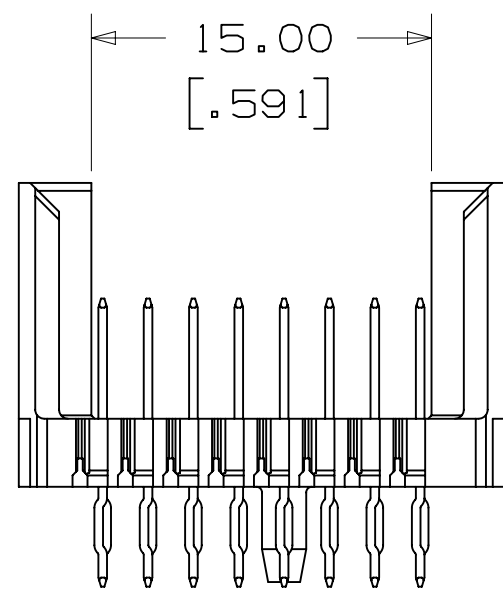
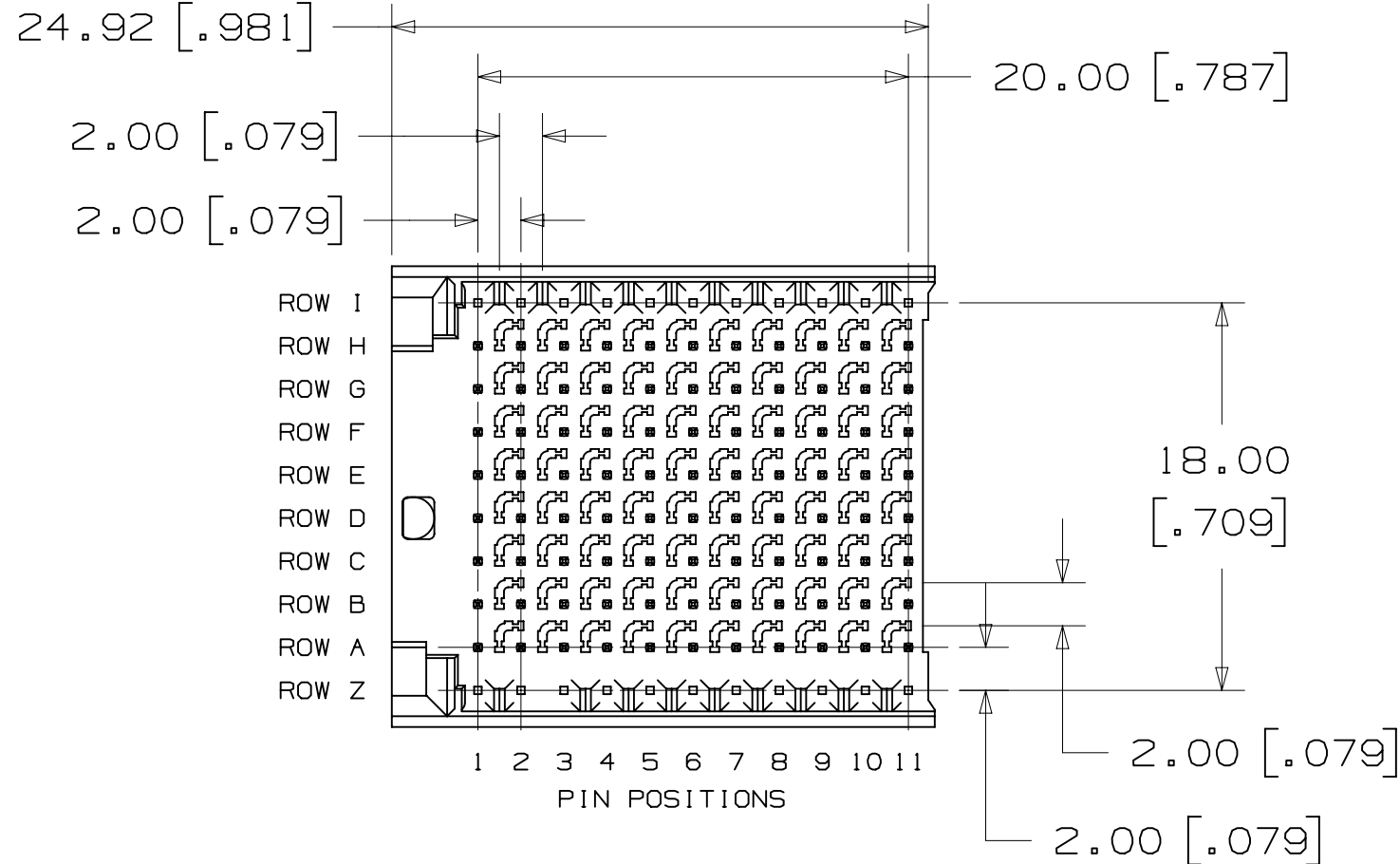
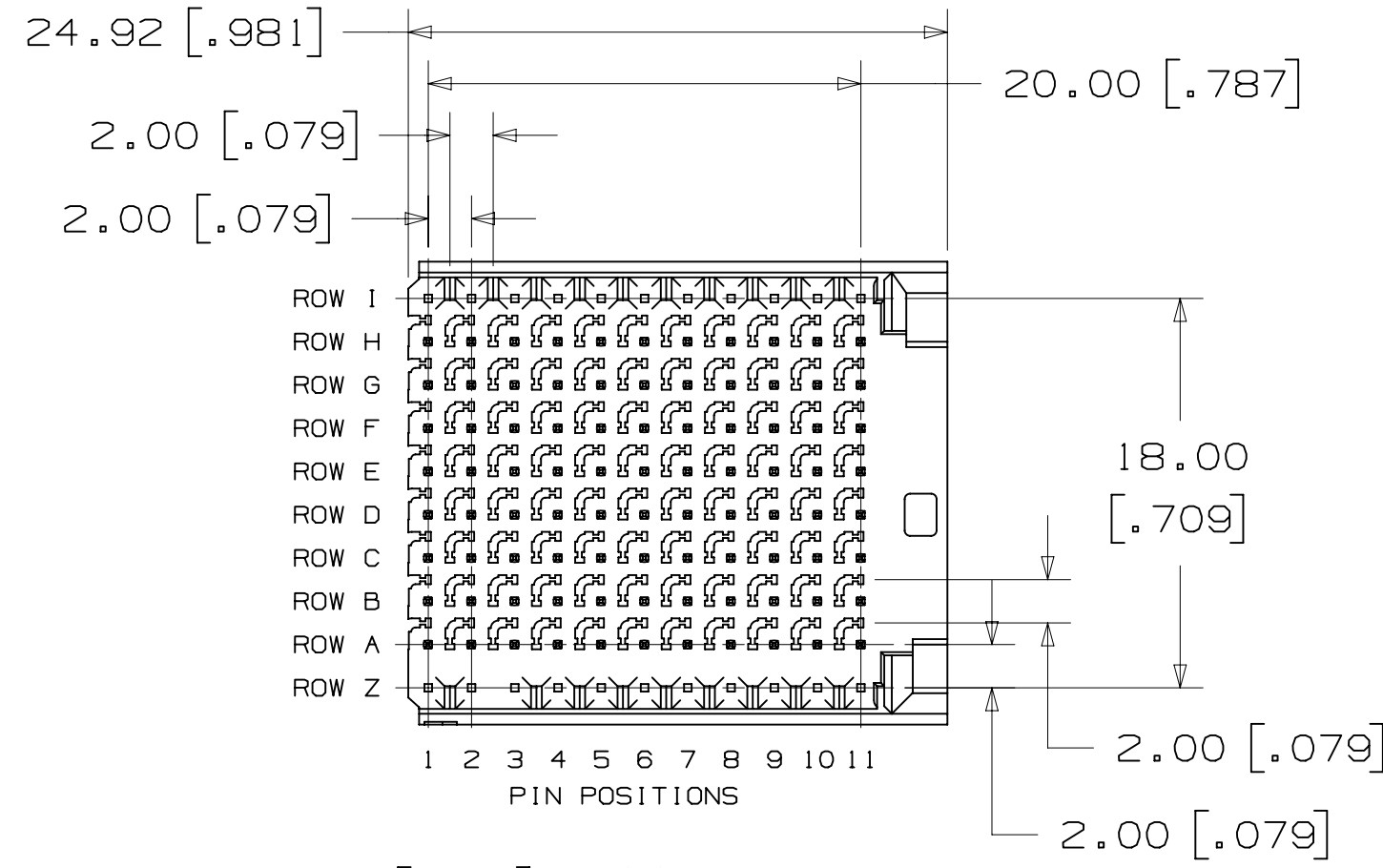
FOR NON-STANDARD CONFIGURATIONS
CONTACT A 3M SALES REPRESENTATIVE

A		39815		MAR 28, 2012		JNC	TS
				PRODUCTION RELEASE			
REV		ECO		ISSUE DATE AND DESCRIPTION		DRFT	CHKD
REV		ECO		MAR 28, 2012		DATE	
CHKD		CHKD		DATE		APPROV. T. SUNIGA	DATE MAR 28, 2012
DIVISION		DIVISION CODE		© 3M COPYRIGHT 2012			
Interconnect Solutions		ISD		This document and the information it contains are 3M property and may not be reproduced or further distributed without the 3M permission, or used or disclosed other than for 3M authorized purposes. All rights reserved.			
DO NOT SCALE DRAWING		SCALE 3 1		TOLERANCES EXCEPT AS NOTED		3M Center St. Paul, MN 55144	
THIRD ANGLE PROJECTION		INCHES 0.0 ± .01 .000 ± .005 .0000 ±		TITLE HM PRESS-FIT HEADER, 8-ROW, HM SERIES			
INTERPRET PER ASME Y14.5 - 1994		MILLIMETERS 0 ± .3 .00 ± .13 .000 ±		CASE NUMBER SIZE DRAWING NO. D 78-5100-2517-0		REV. A	
MAX SURFACE FINISH UNFINISHED SURFACES ✓ ☐ MARKED ONLY		ANGLES		MODEL		DET LISTS ☐ YES ☒ NO SHT 2 OF 4	

3M™ HM PRESS-FIT HEADER, 8-ROW, HM SERIES
FOR HARD METRIC APPLICATIONS

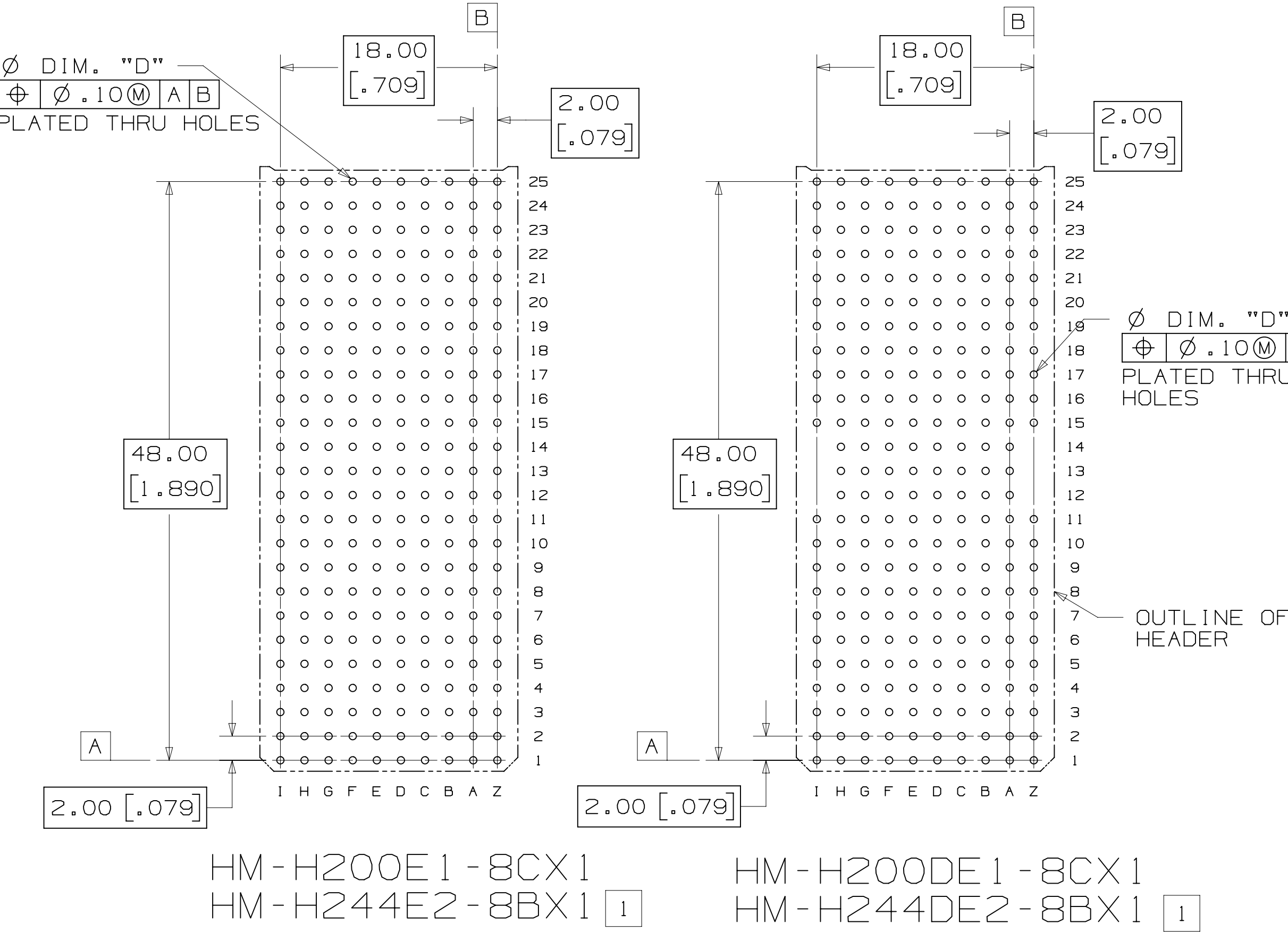


DIM. "B" TAIL LENGTH
1 = 4.4 [.17] PIN, 2.0 [.08] POWER
AND 2.0 [.08] ESD
2 = 4.4 [.17] PIN, 4.4 [.17] POWER
AND 2.0 [.08] ESD

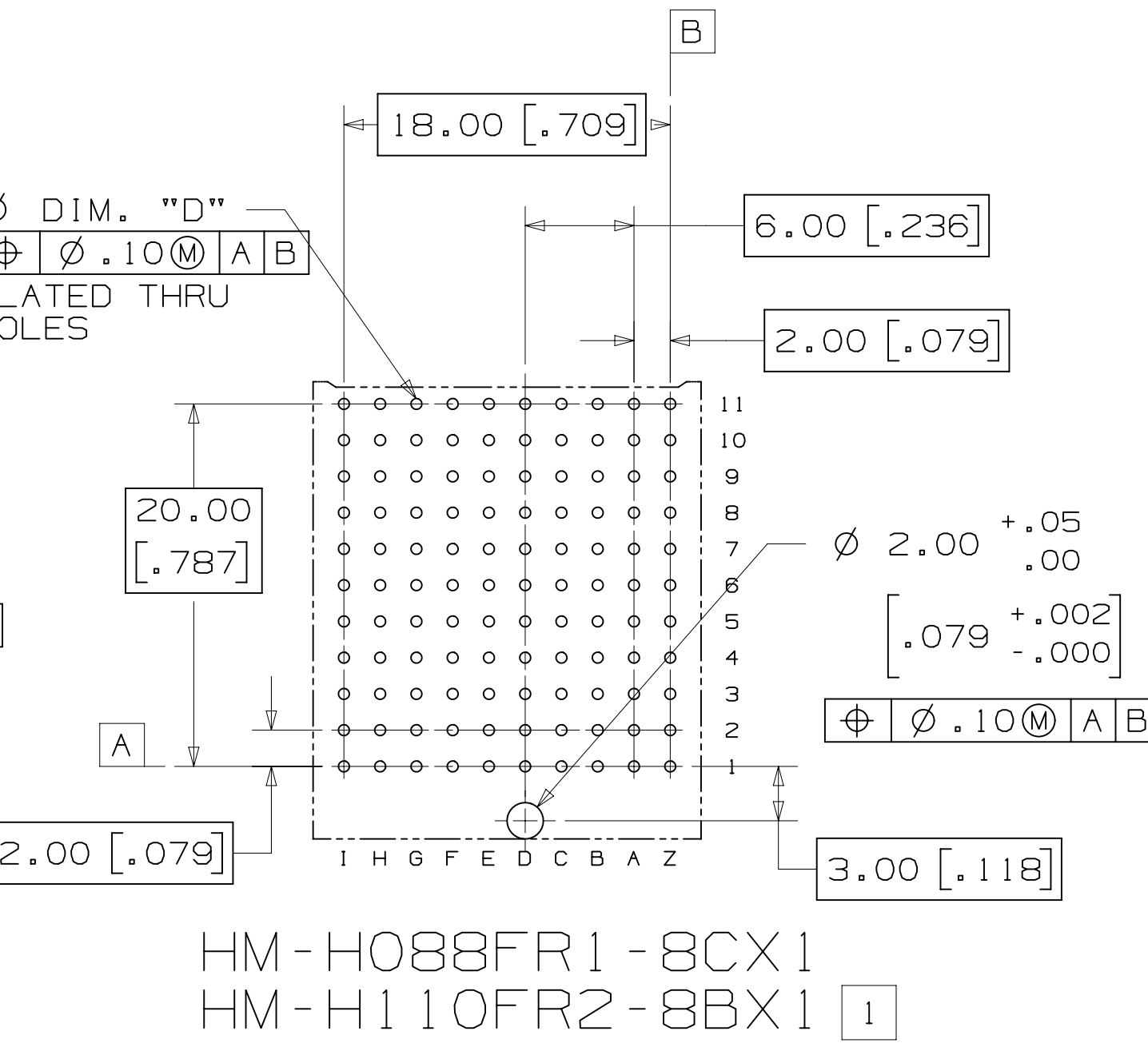
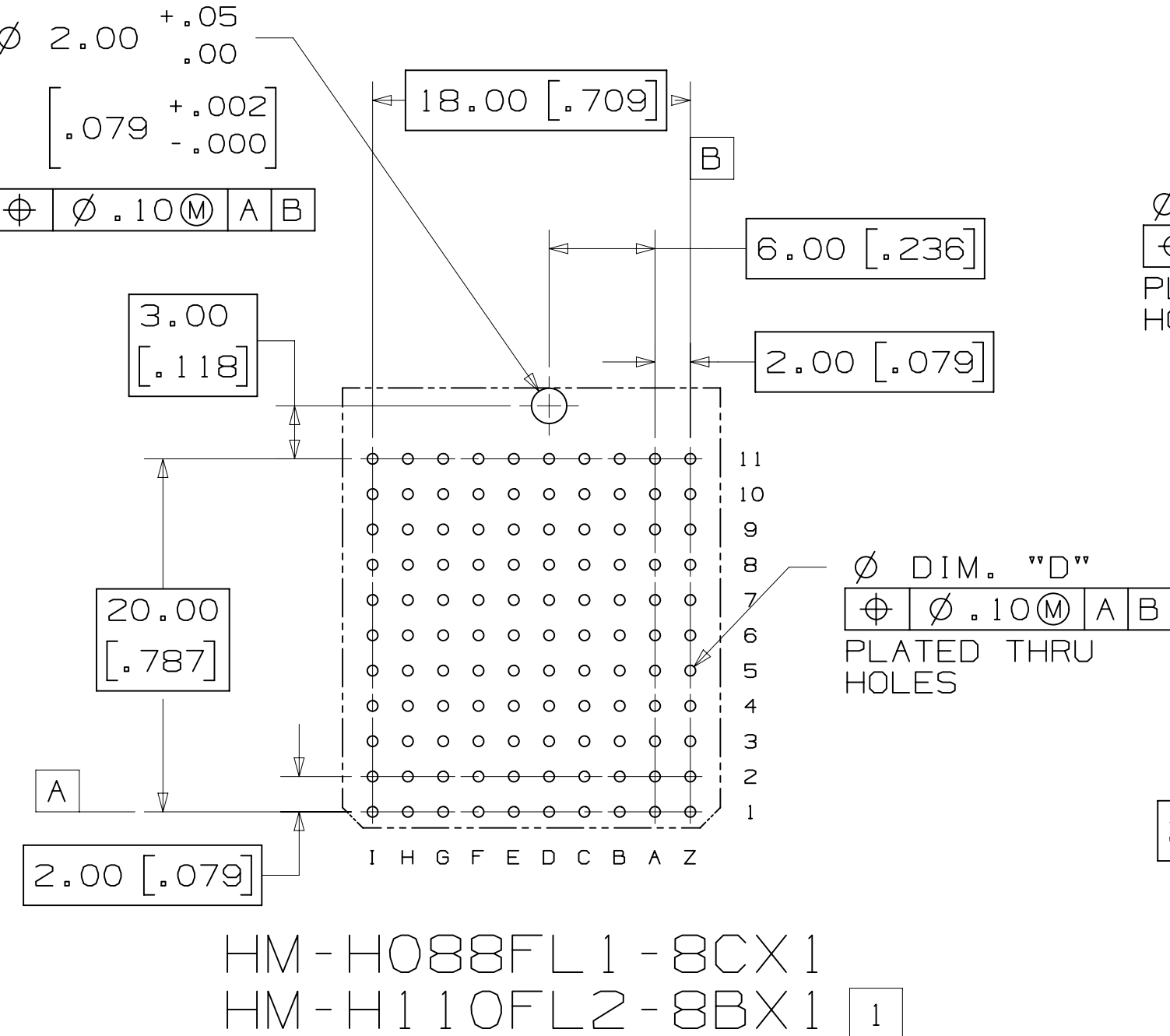
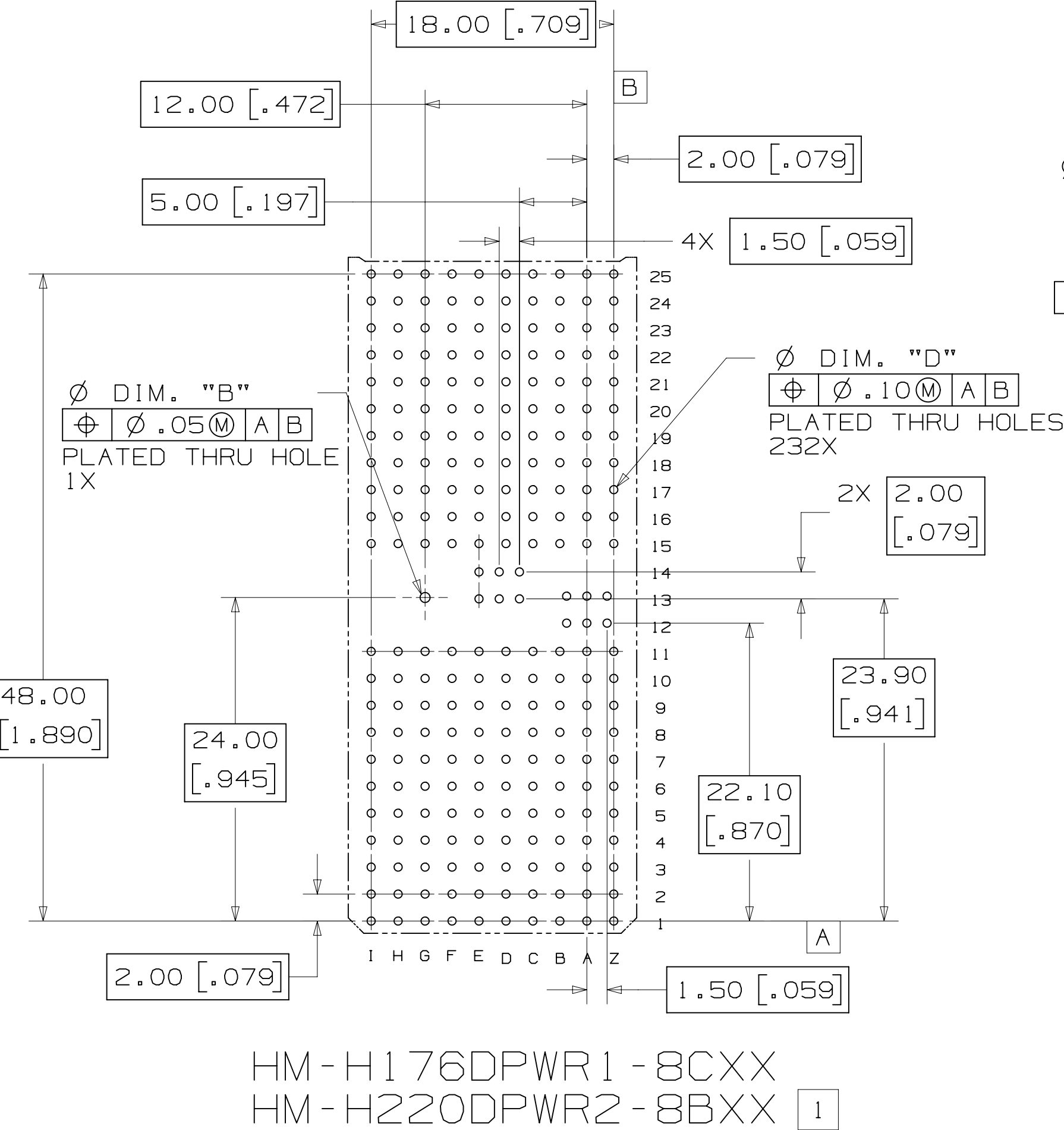
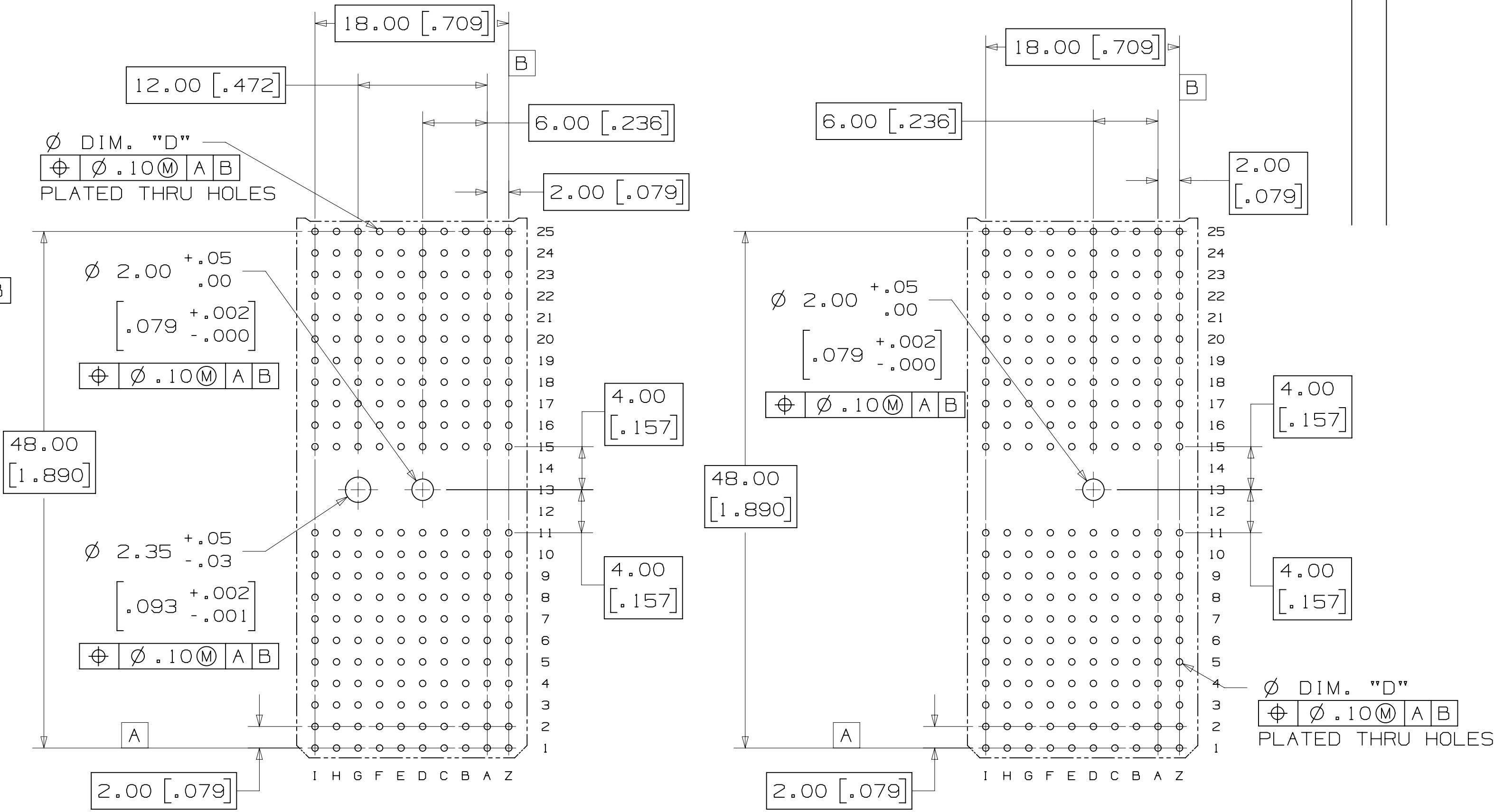


DESIGN REFERENCE		NEXT ASSEMBLY		A 39815		MAR 28, 2012		JNC	TS
REV		ECO		ISSUE DATE AND DESCRIPTION		DRFT		CHKD	
DISTRIBUTION CODES		DIVISION CODE		3M Center St. Paul, MN 55144		MAR 28, 2012		MAR 28, 2012	
DO NOT SCALE DRAWING		TOLERANCES EXCEPT AS NOTED		INCHES		MILLIMETERS		ANGLES	
THIRD ANGLE PROJECTION		INTERPRET PER ASME Y14.5 - 1994		.00 ± .01		.00 ± .005		.00 ± .03	
MAX SURFACE ROUGHNESS		SURFACES		.000 ±		.000 ±		.000 ±	
MARKED ONLY		ANGLES		3		1		1	
TITLE		HM PRESS-FIT HEADER, 8-ROW, HM SERIES		CAGE NUMBER		DRAWING NO.		REV.	
DET		LISTS		YES		NO		SHT 3 OF 4	

3M™ HM PRESS-FIT HEADER, 8-ROW, HM SERIES
FOR HARD METRIC APPLICATIONS



HOLE PLATING TABLE				
HOLE	(FINISHED HOLE)	Cu THICKNESS	SnPb THICKNESS	DRILLED HOLE DIA.
DIM. "B"	.690-.790 [.0270-.0310]	.025-.045 [.0010-.0018]	.008-.018 [.0003-.0007]	.810-.860 [.0320-.0340]
DIM. "D"	.550-.650 [.0217-.0256]	.025-.045 [.0010-.0018]	.008-.018 [.0003-.0007]	.686-.727 [.0270-.0286]



RECOMMENDED PCB MOUNTING HOLE PATTERN
(VIEWED FROM COMPONENT SIDE)

NOTES

1 ROW 1 AND 2 HOLES ARE ONLY USED FOR HM-HXXXX2-8BX1 STYLE HEADER.

DESIGN REFERENCE	NEXT ASSEMBLY	REV	ECO	ISSUE DATE AND DESCRIPTION	DRFT	CHKD
3M Center	3M Center	1		MAR 28, 2012		
Interconnect Solutions	ISD	3M		MAR 28, 2012		
DO NOT SCALE DRAWING	SCALE 1	TOLERANCES EXCEPT AS NOTED				
THIRD ANGLE PROJECTION	INTERPRET PER ASME Y14.5 - 1994	MILLIMETERS				
MAX SURFACE ROUGHNESS	0.0000 ±	0.00 ±				
MARKED ONLY	0.00 ±	0.00 ±				

3M

HM PRESS-FIT HEADER, 8-ROW, HM SERIES

CAGE NUMBER D78-5100-2517-0

REV. A

MODEL

LISTS YES NO SHT 4 OF 4