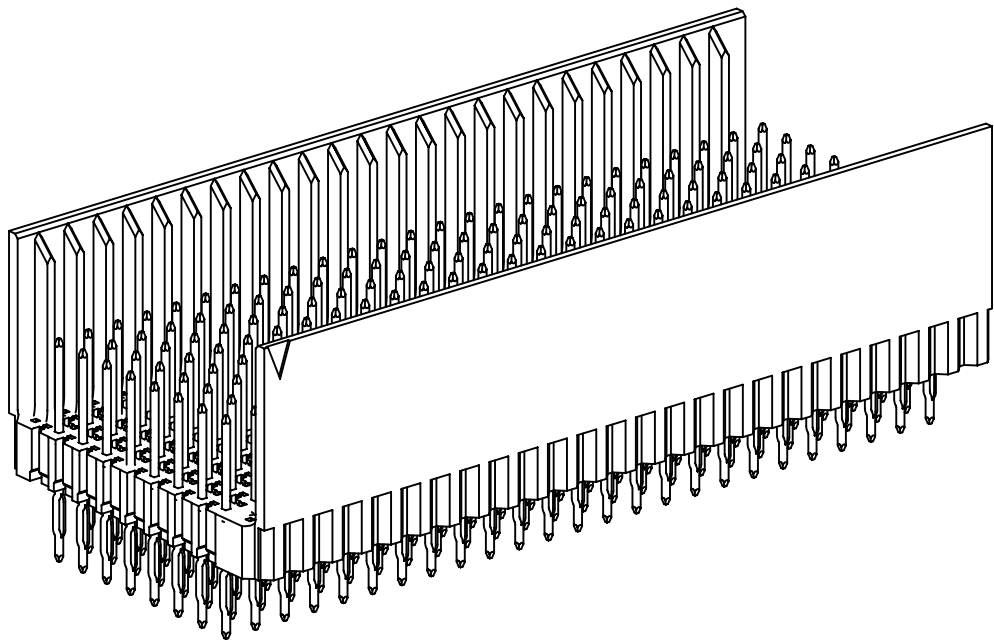
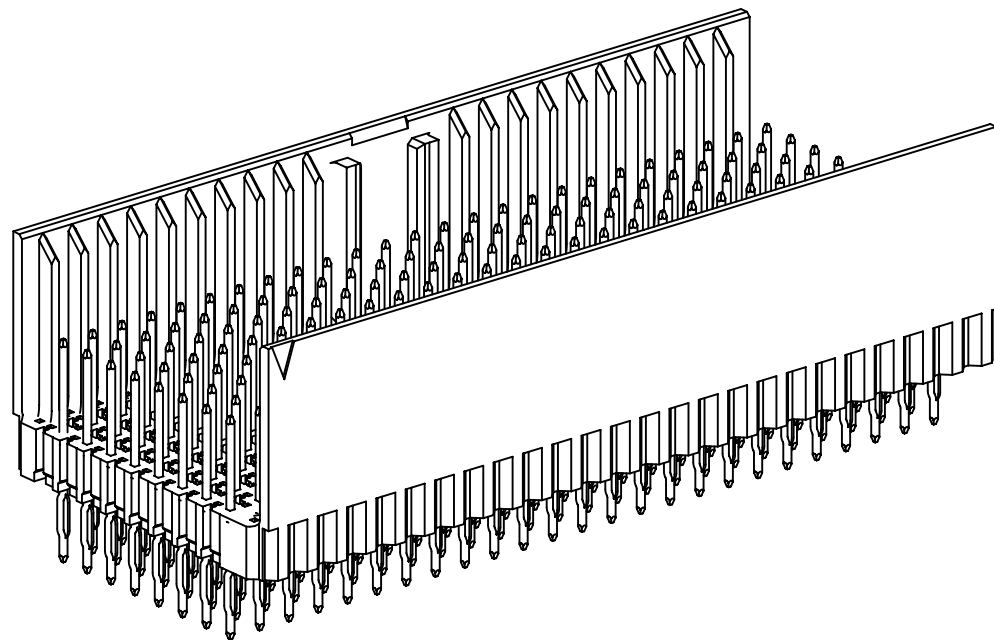


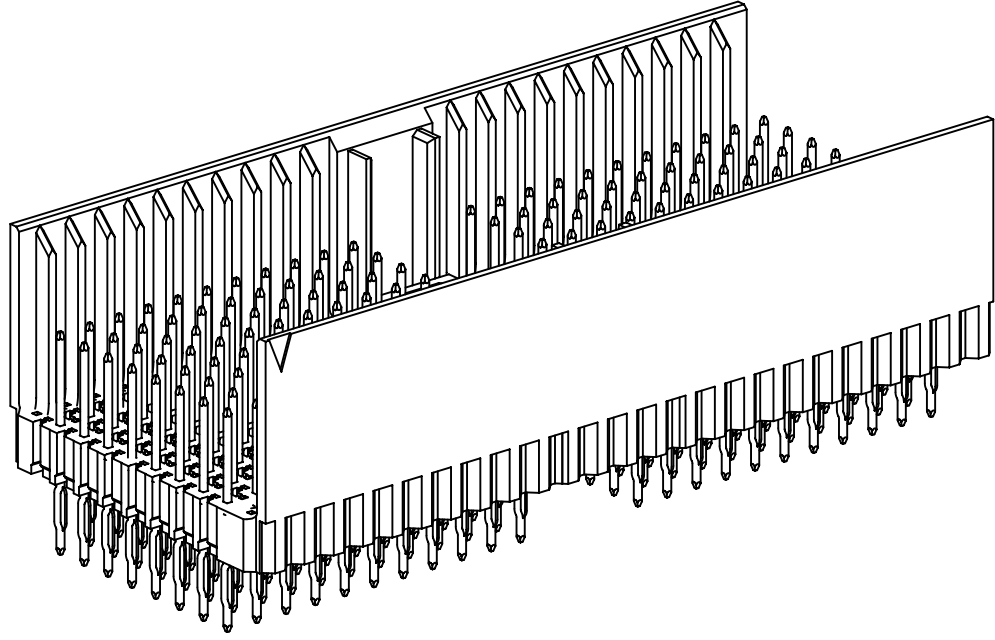
3M™ HM PRESS-FIT HEADER, 8-ROW, HM SERIES
FOR HARD METRIC APPLICATIONS



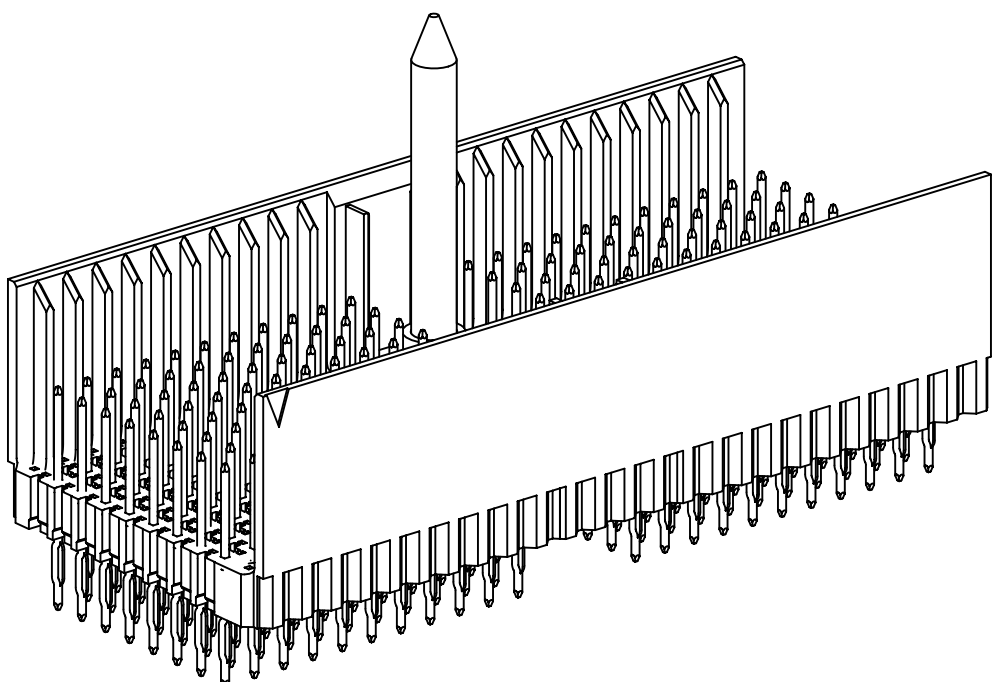
HM-H200E1-8CX1
HM-H244E2-8BX1



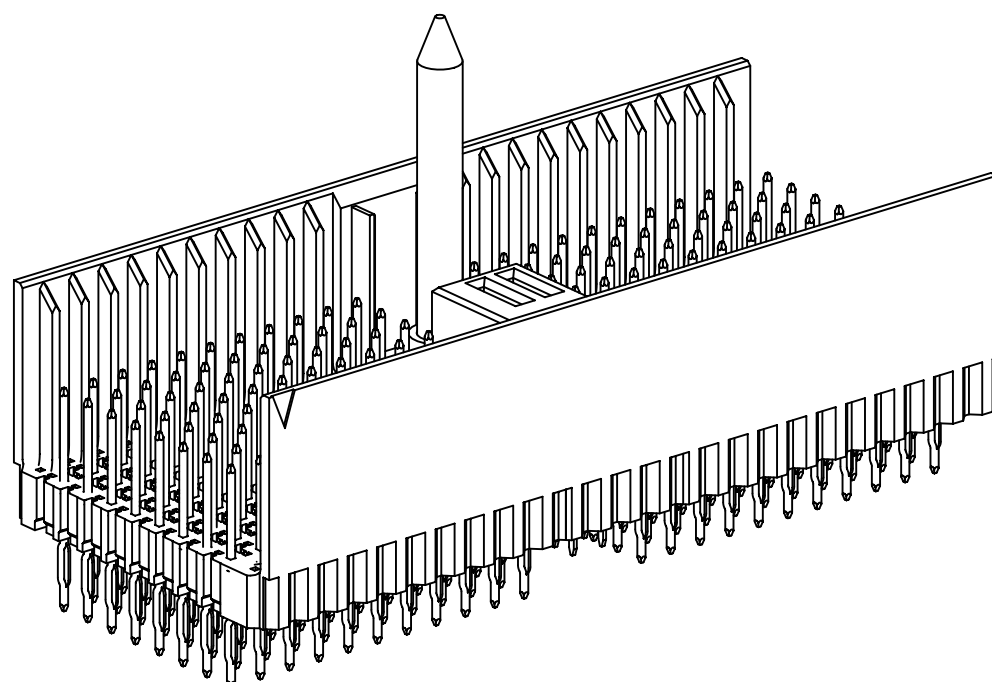
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HM-H244DE2-8BX1



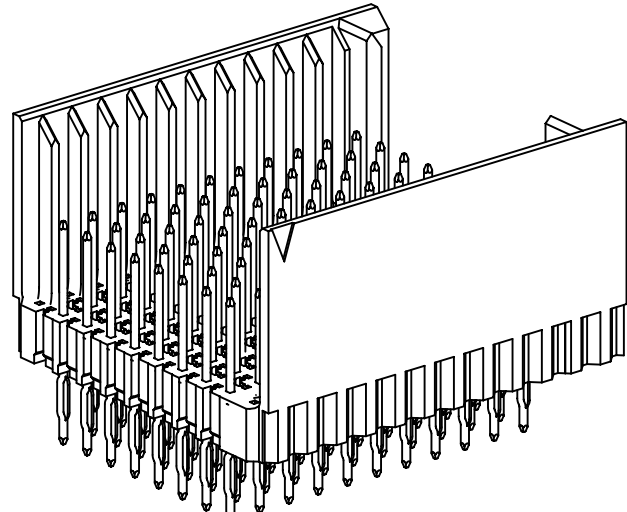
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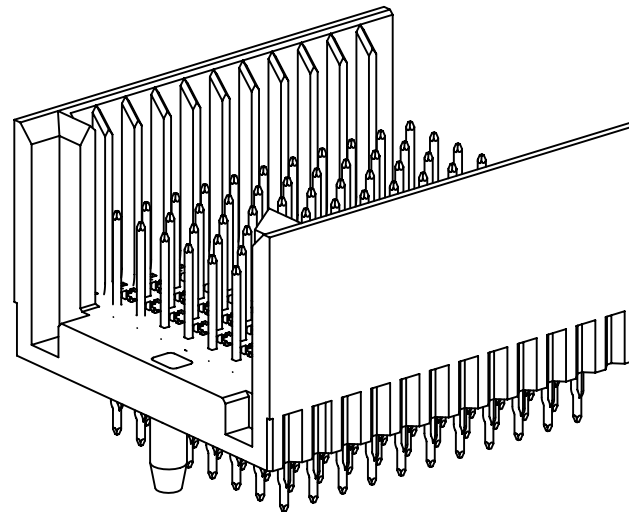
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HM-H220DG2-8BX1



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

1. MATERIAL:
PLASTIC: HIGH TEMP LCP, UL94V-0
PINS: COPPER ALLOY.
2. 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)
3. 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>

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INFORMATION CALL 800-225-5373

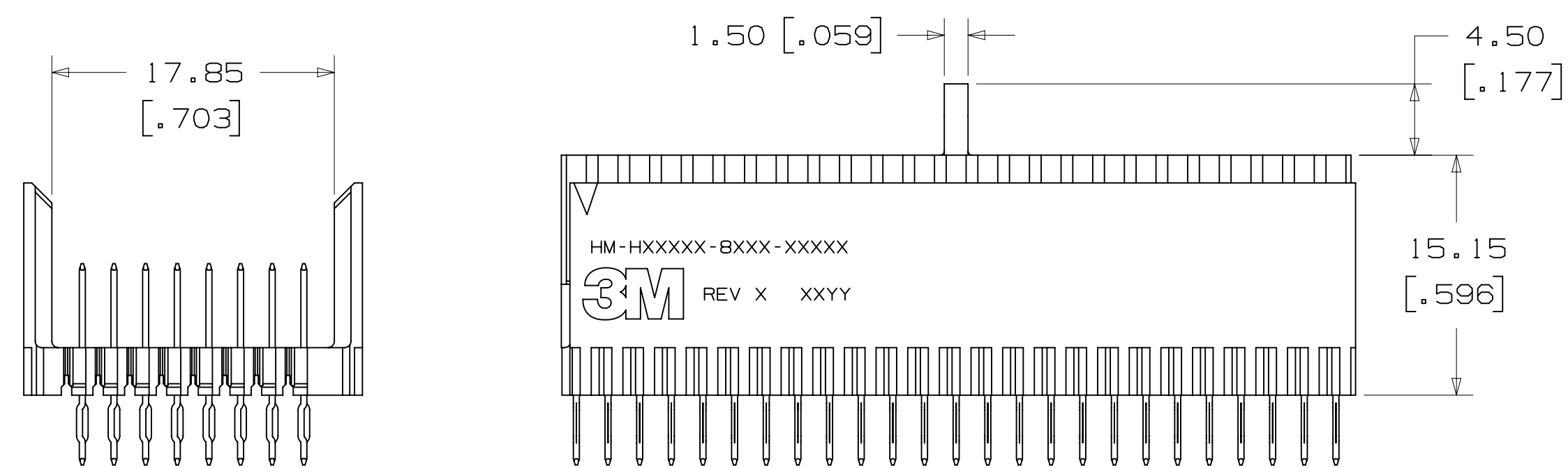
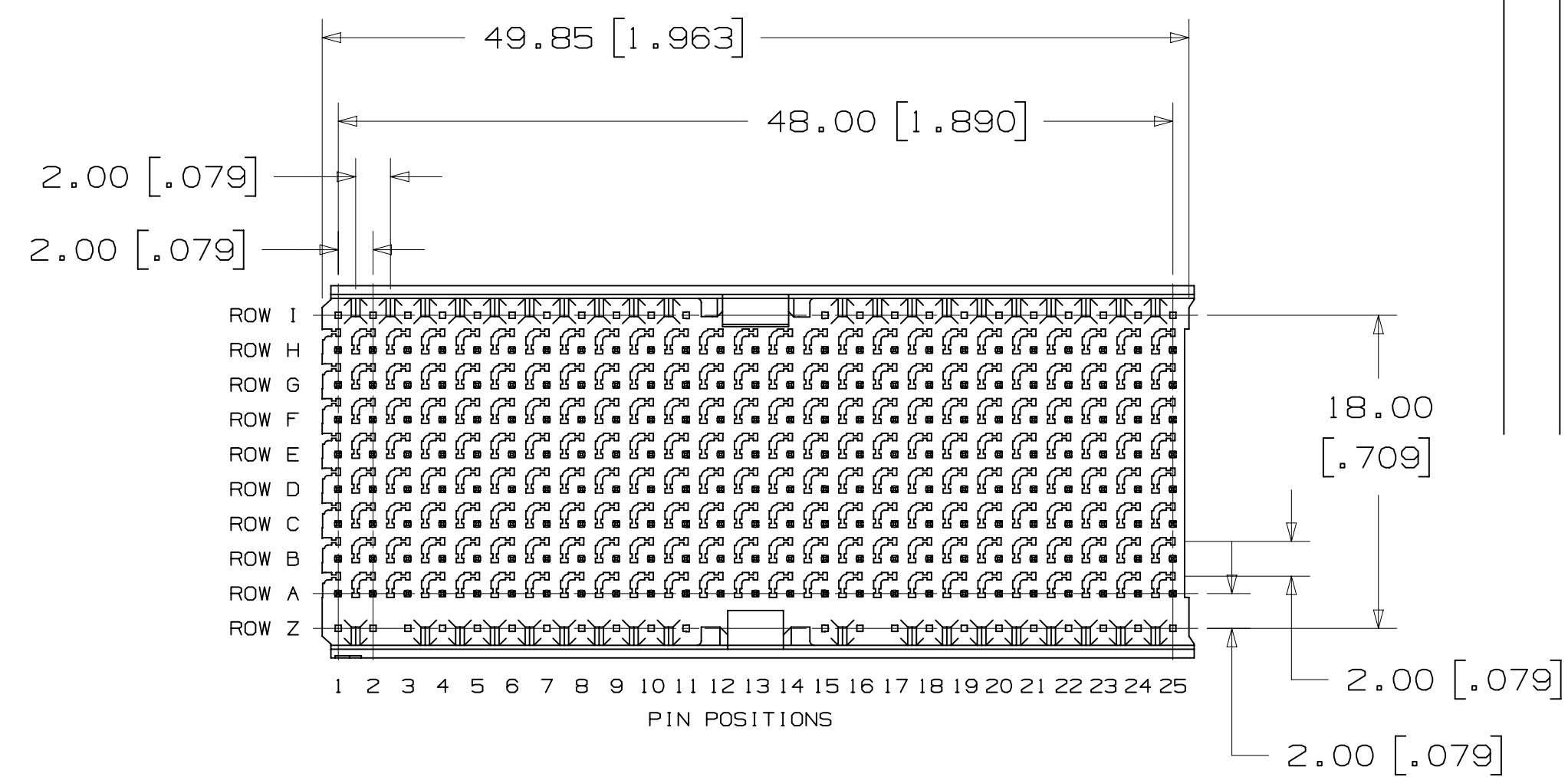
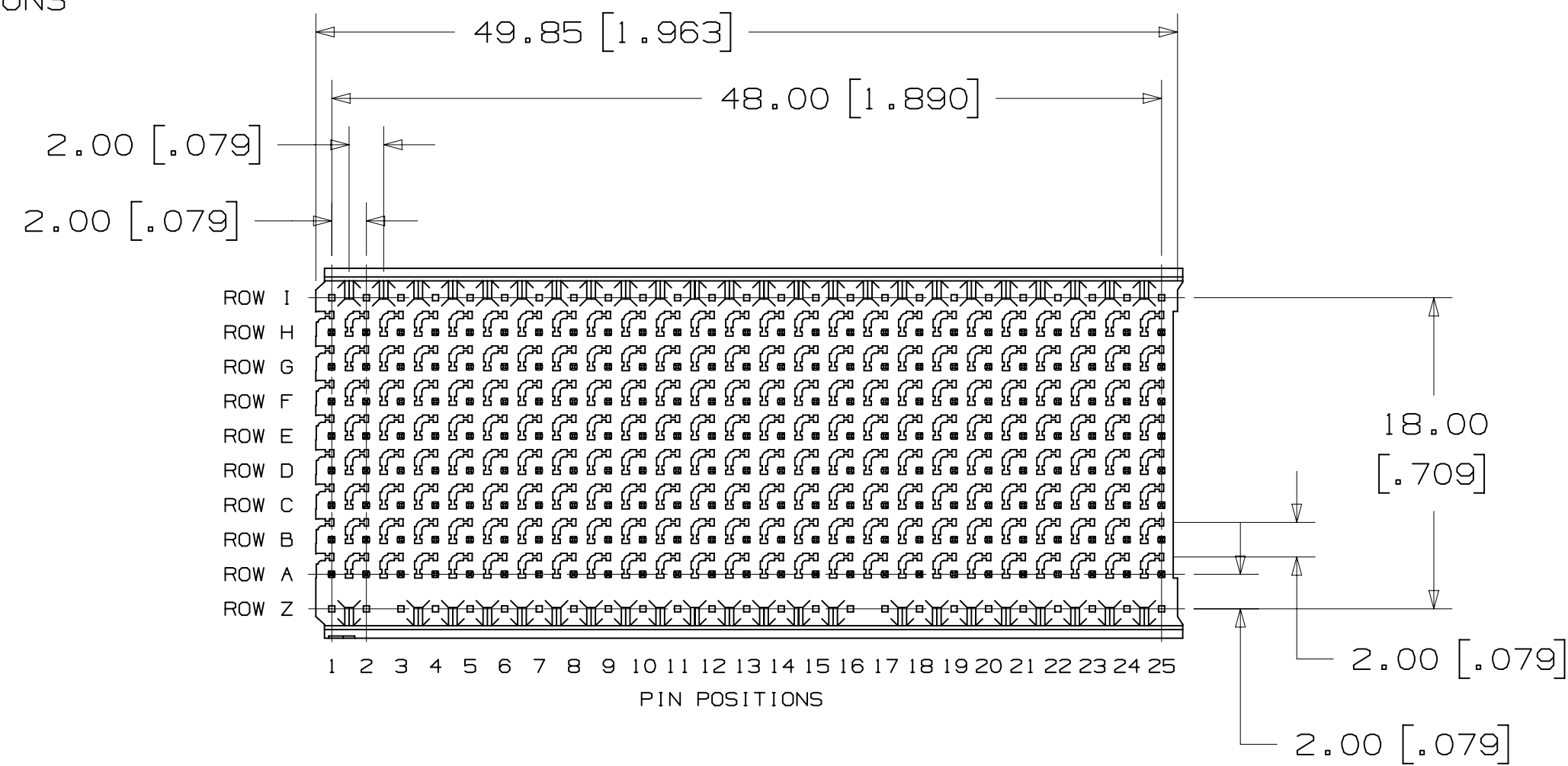
cAUs
UL FILE NO: E68080

DIMENSIONS: MM [INCHES]		A	39815	MAR 28,2012		JNC	TS
		PRODUCTION RELEASE					
DESIGN REFERENCE		REV	ECO	ISSUE DATE AND DESCRIPTION		DRFT	CHKD
NEXT ASSEMBLY		DATE		MFG		DATE	
DIFFERENTIAL CODES		CASTIGLIONE		MAR 28,2012			
		DATE		APPROV		DATE	
				T. SUNIGA		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 3M permission, or used or disclosed other than for 3M authorized purposes. All rights reserved.			
DO NOT SCALE		TOLERANCES EXCEPT AS NOTED		3M 3M Center St. Paul, MN 55144			
DRAWING							
		INCHES		TITLE			
THIRD ANGLE PROJECTION							
INTERPRET PER ASME Y14.5 - 1994		MILLIMETERS		HM PRESS-FIT HEADER, 8-ROW, HM SERIES			
MAX SURFACE ROUGHNESS		.0		CAGE NUMBER			
✓ UNFINISHED SURFACES		.00 ± .01					
✓ MARKED ONLY		.000 ± .005		SIZE DRAWING NO.			
		.0000 ± .0005					
				D78-5100-2517-0			
				REV.			
				A			
				MODEL			
				DISTS			
				YES X NO			
				SHT 1 OF 4			

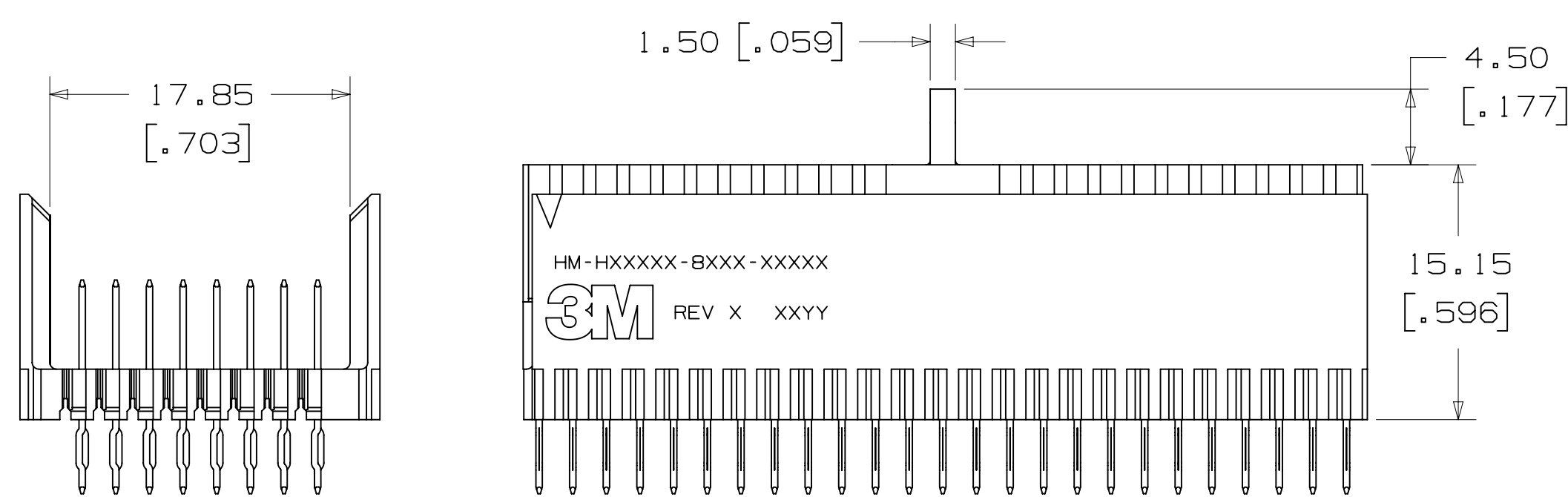
3M™ HM PRESS-FIT HEADER, 8-ROW, HM SERIES
FOR HARD METRIC APPLICATIONS

NOTE

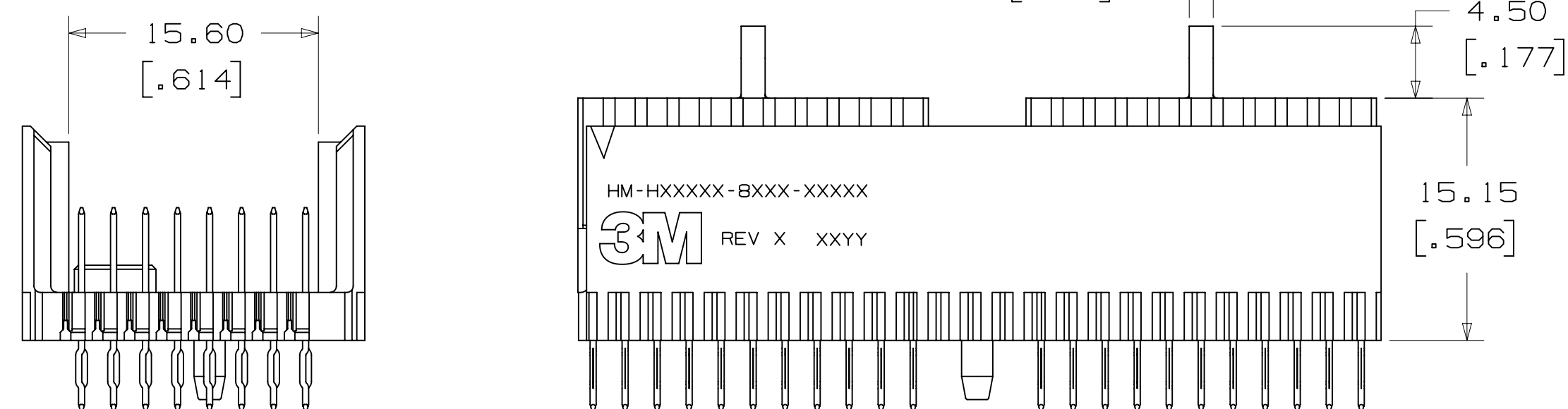
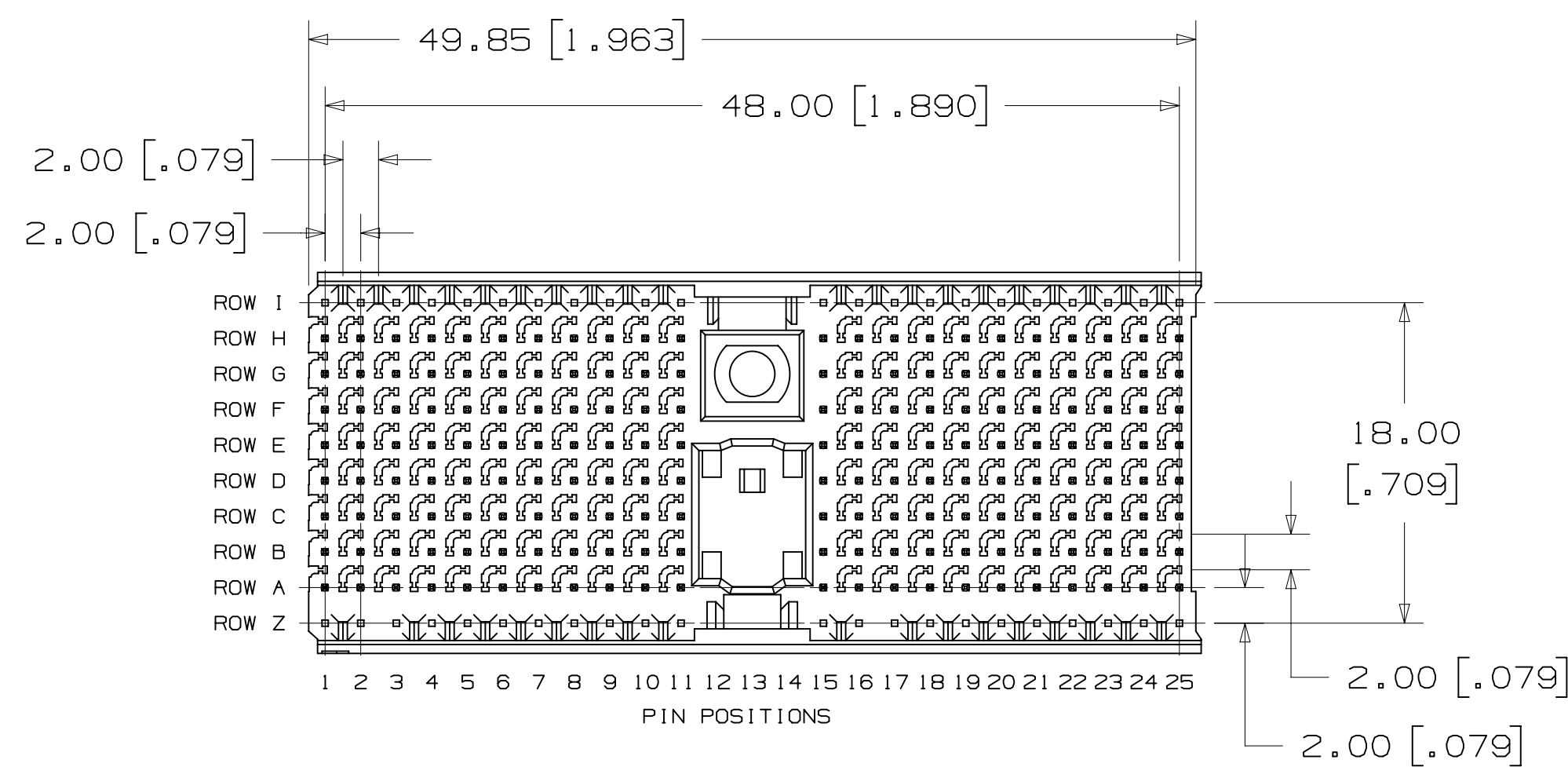
1 CAPS TO BE REMOVED AFTER
PRESS-FIT INSTALLATION PROCESS.



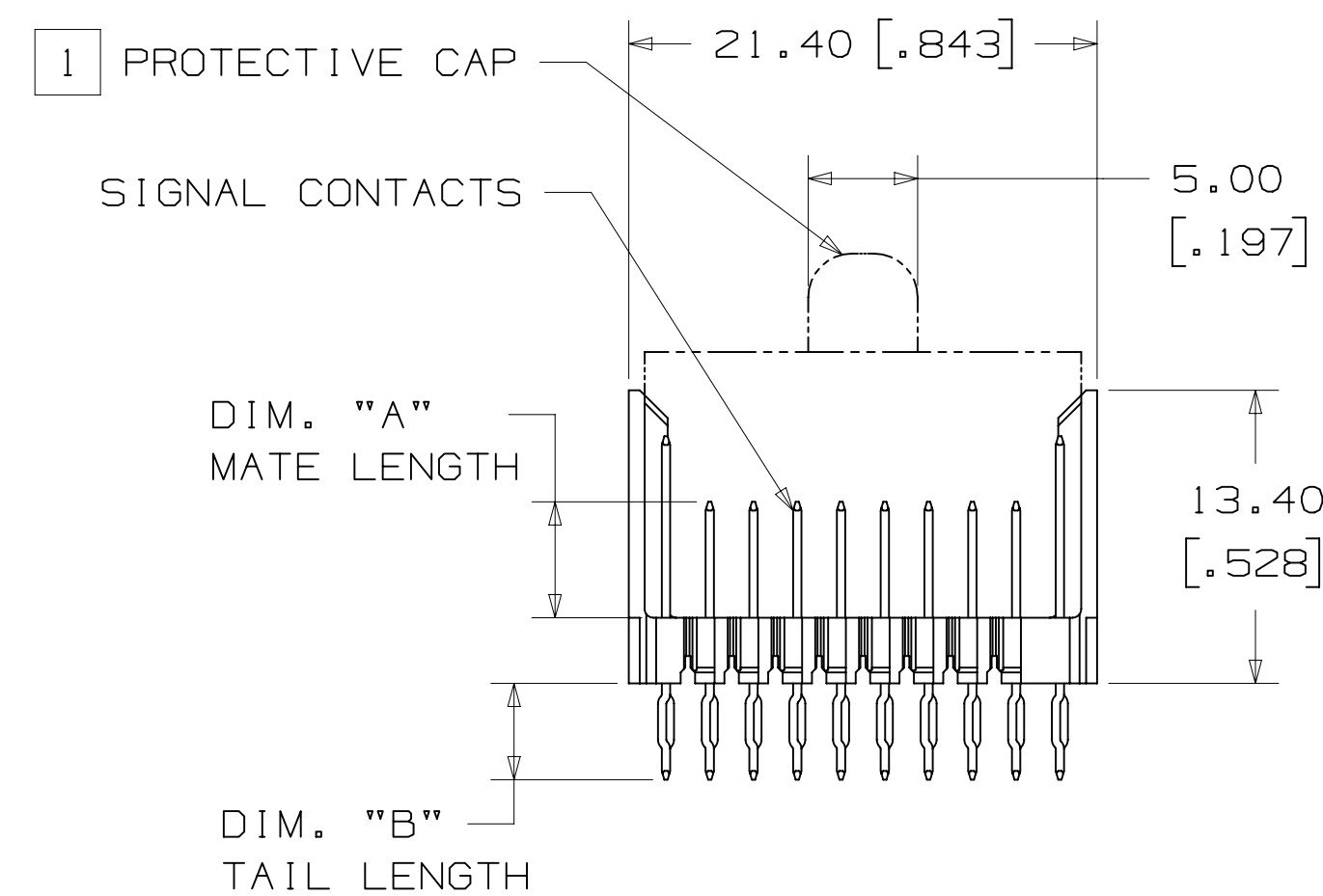
HM-H200E1-8CX1
HM-H244E2-8BX1



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



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



TYPICAL SIDE VIEW
DIMENSIONS FOR THE
HEADERS ON THIS DRAWING

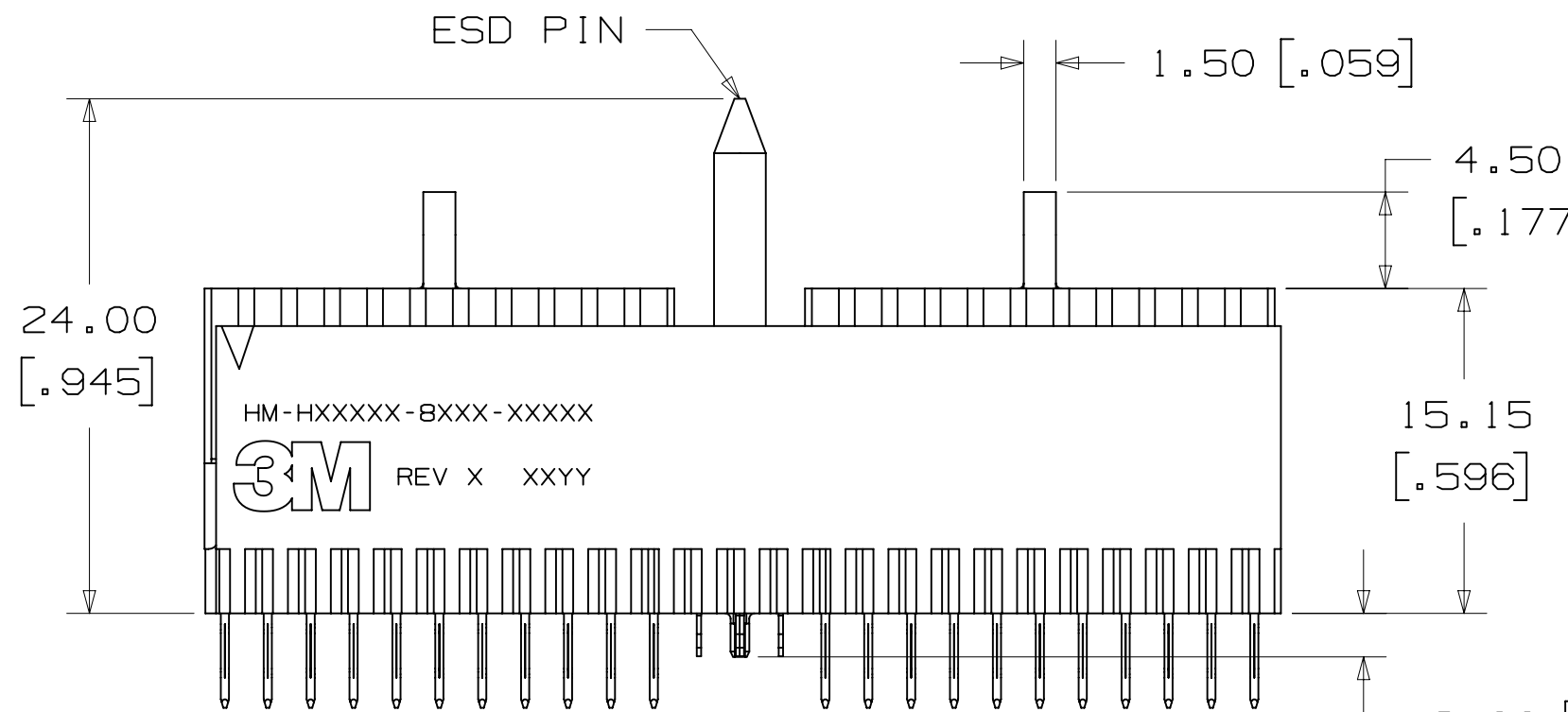
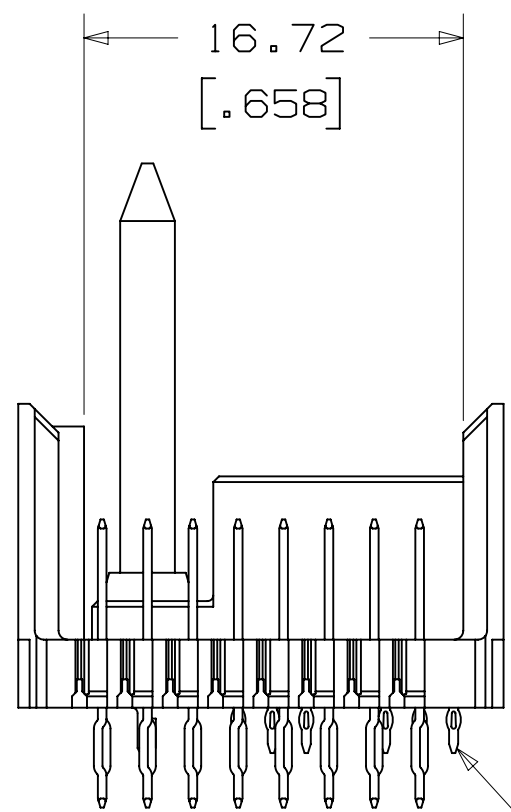
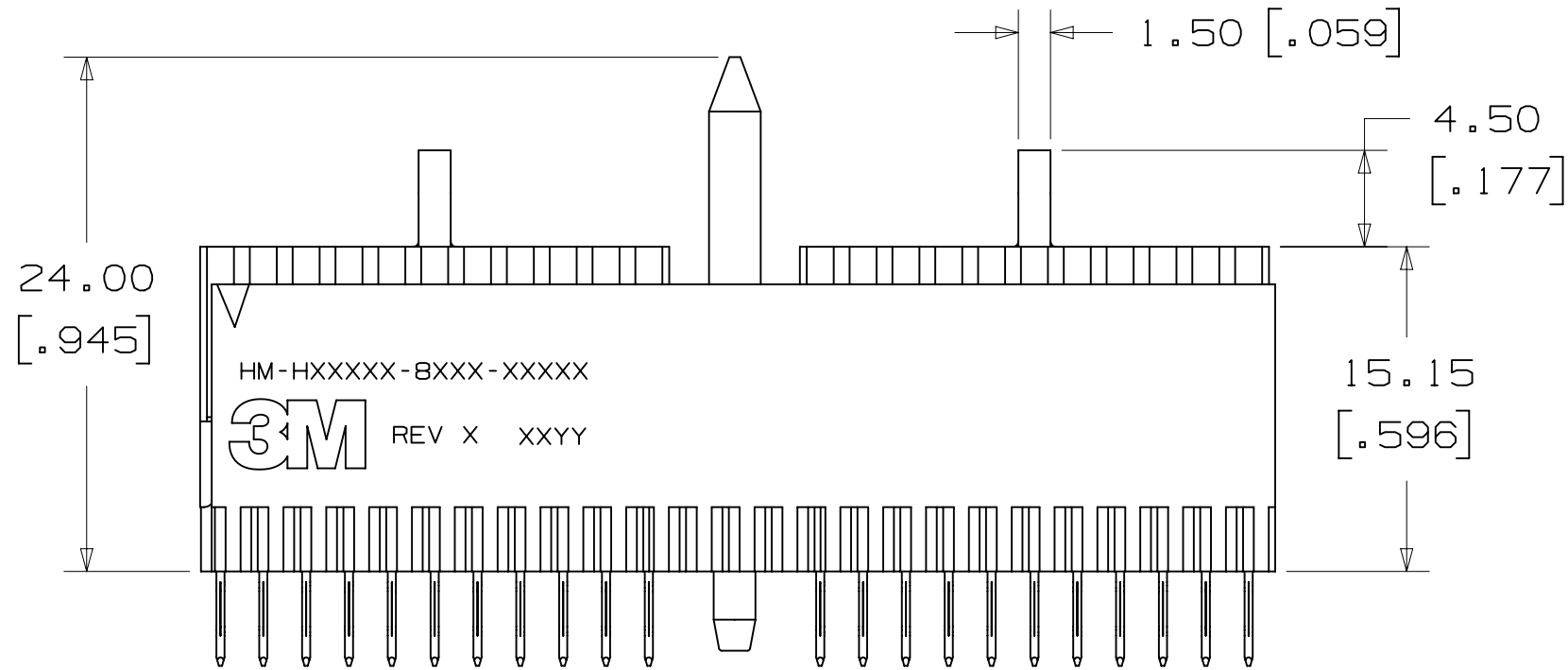
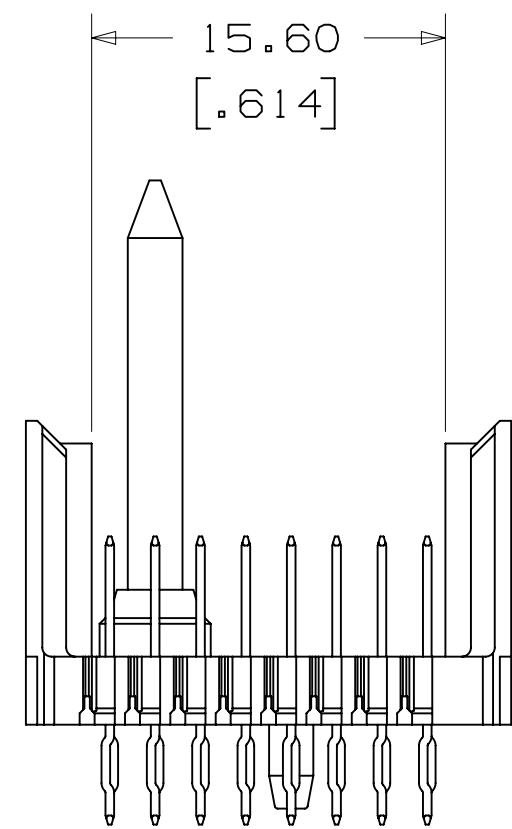
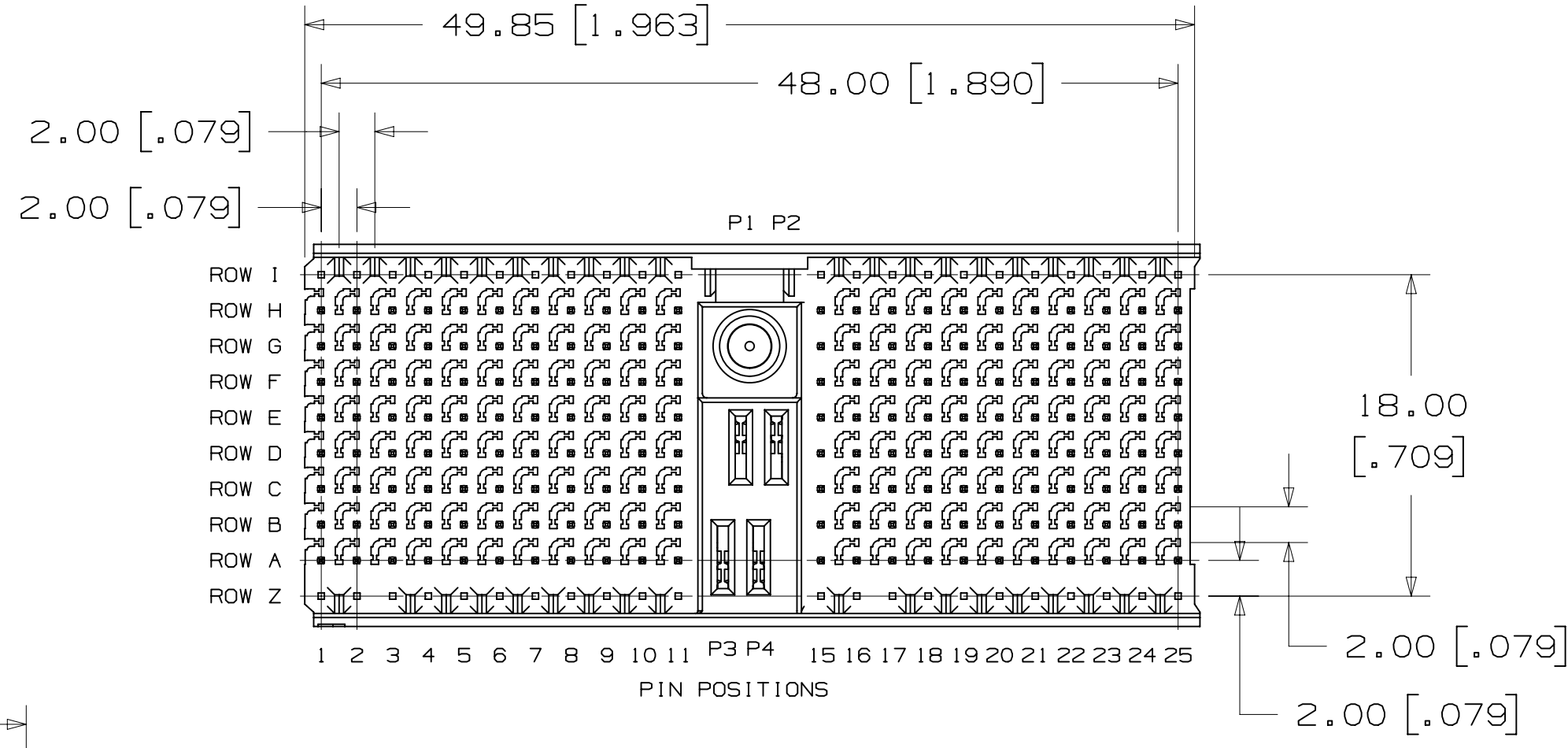
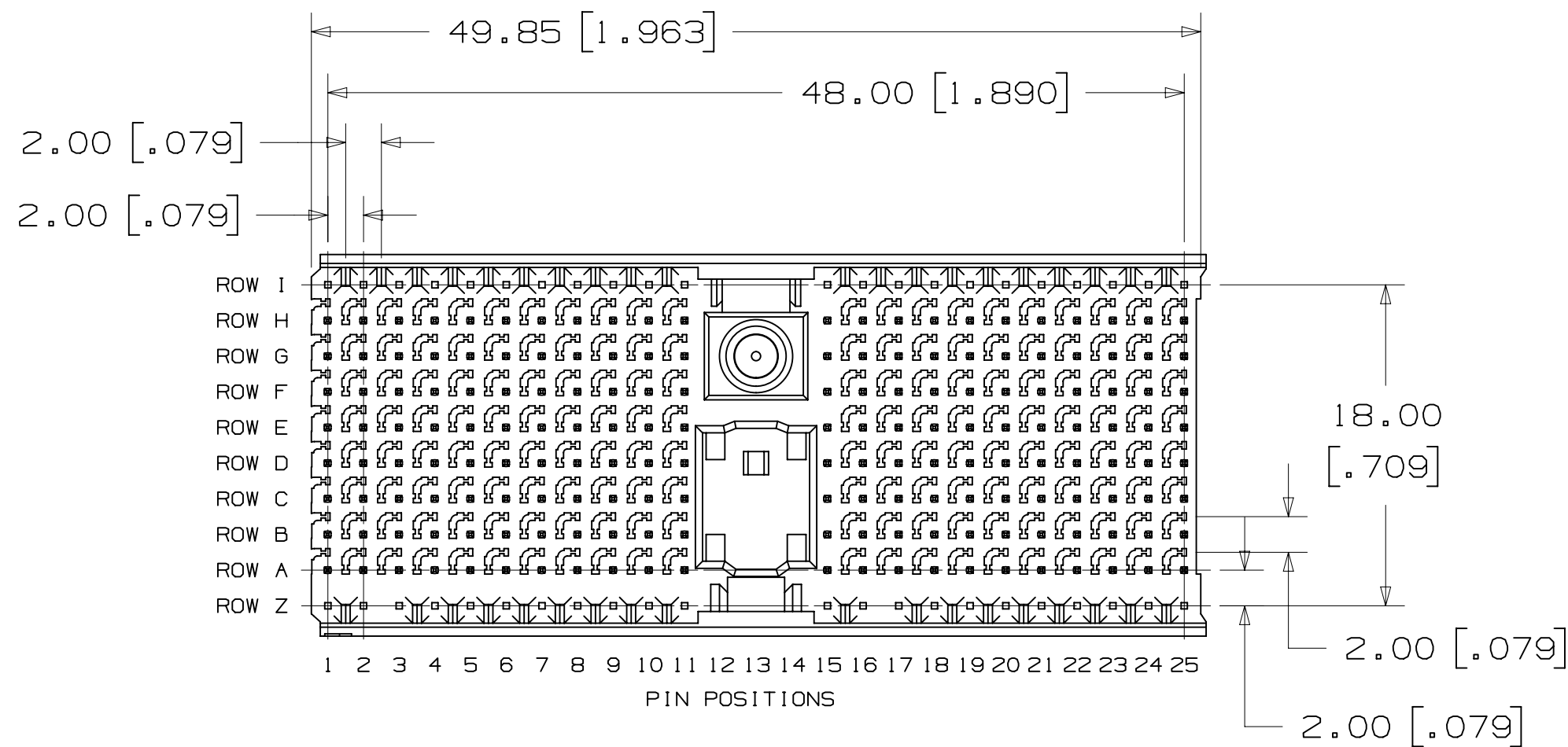
STANDARD CONFIGURATION

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		TAS			
PRODUCTION RELEASE											
REV		ECO		ISSUE DATE AND DESCRIPTION				DRFT		CHKD	
REV		ECO		DATE MAR 28, 2012				MFG		DATE	
CHKD		DATE		APPRV. T. SUNIGA				DATE MAR 28, 2012			
DIVISION		Interconnect Solutions		DIVISION CODE		ISD					
DO NOT SCALE DRAWING		SCALE 3 1		TOLERANCES EXCEPT AS NOTED		3M Center St. Paul, MN 55144		© 3M COPYRIGHT 2012 This document 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.			
		THIRD ANGLE PROJECTION		INCHES .0 ± .00 ± .01 .000 ± .005 ± .0000 ±		MILLIMETERS 0 ± .0 ± .3 .00 ± .13 .000 ±		TITLE HM PRESS-FIT HEADER, 8-ROW, HM SERIES			
INTERPRET PER ASME Y14.5 - 1994		MAX SURFACE ROUGHNESS ✓ □ UNFINISHED SURFACES ✓ □ MARKED ONLY		CAGE NUMBER D		SIZE 78-5100-2517-0		DRAWING NO. A		REV. A	
ANGLES		MODEL		DET. LISTS		YES X NO		SHT 2 OF 4			

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



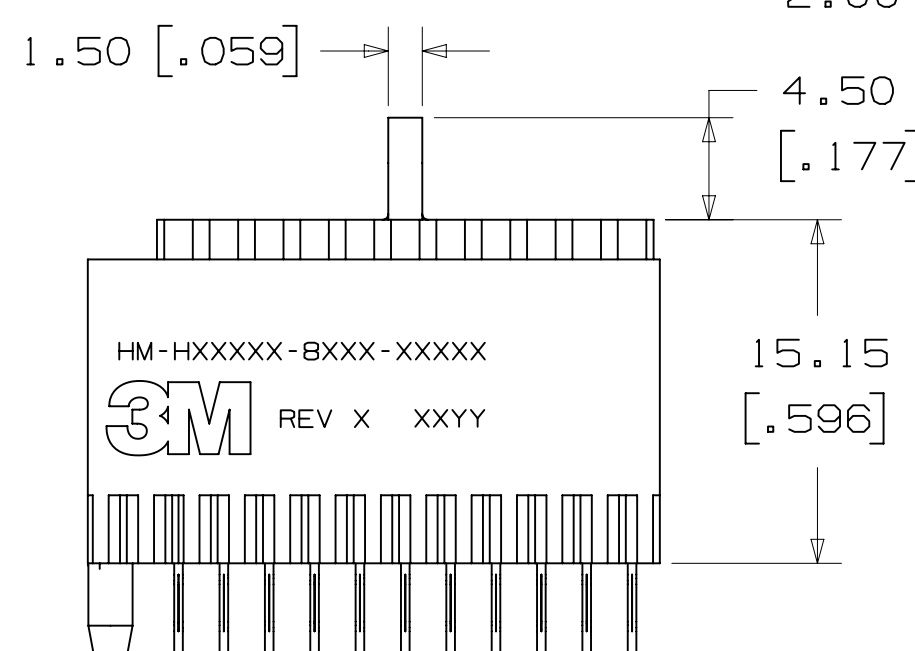
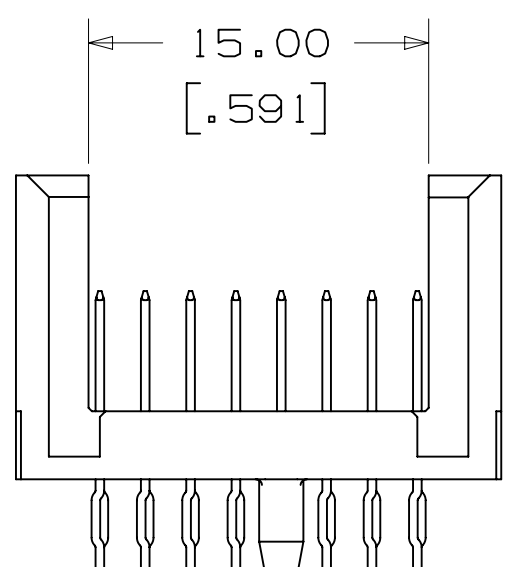
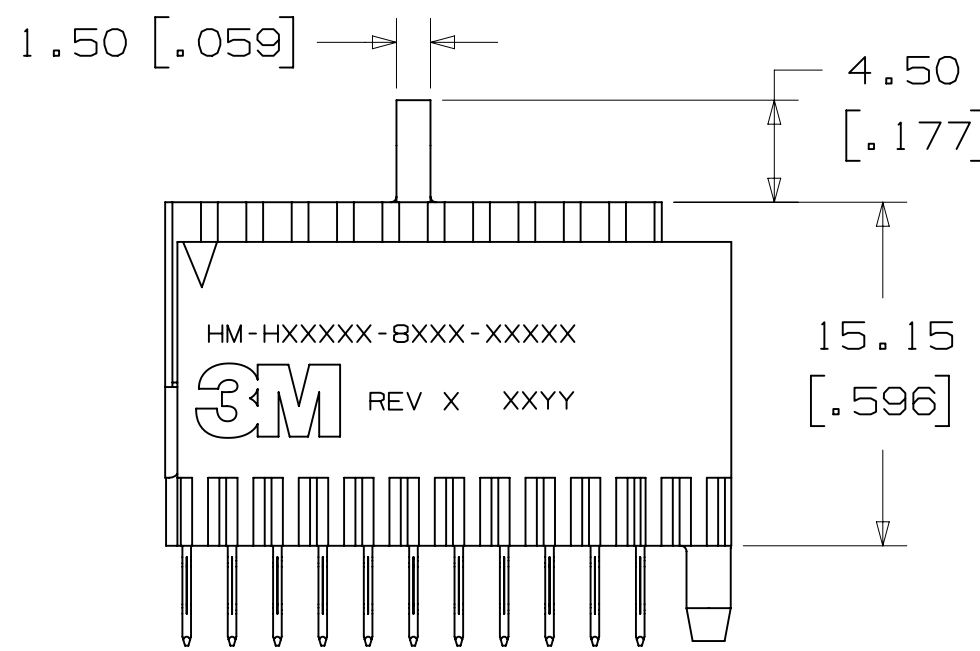
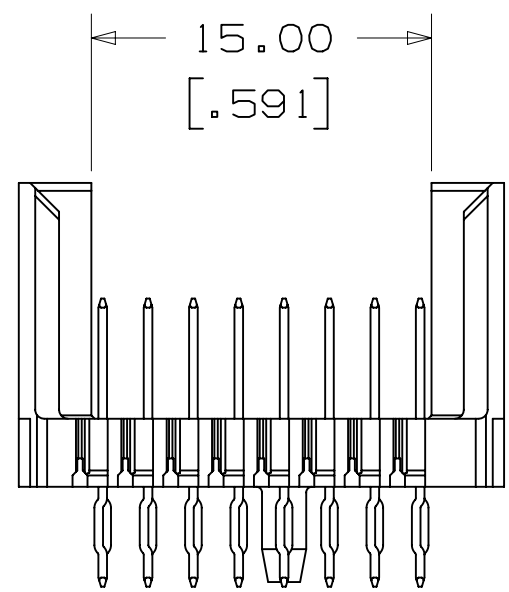
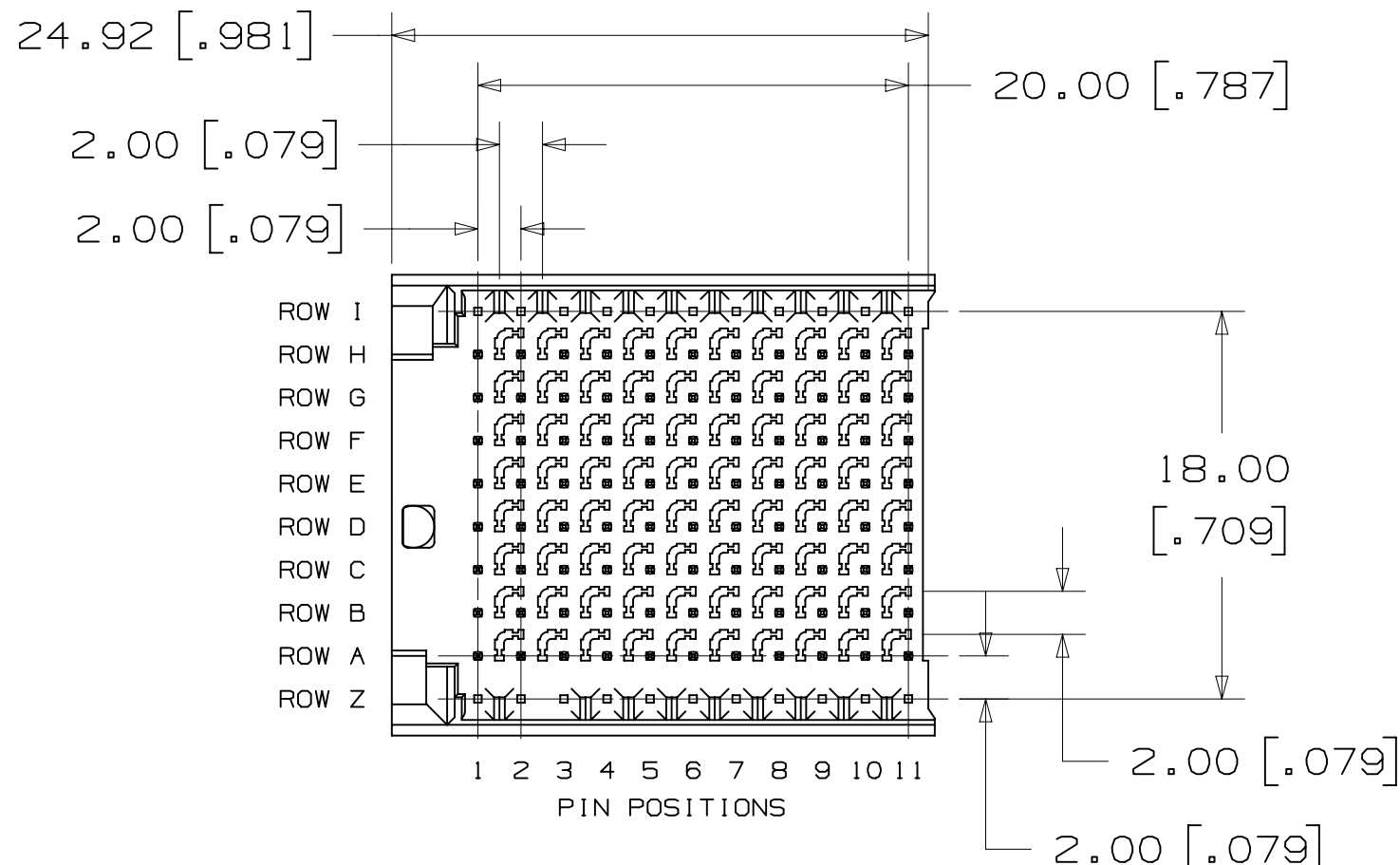
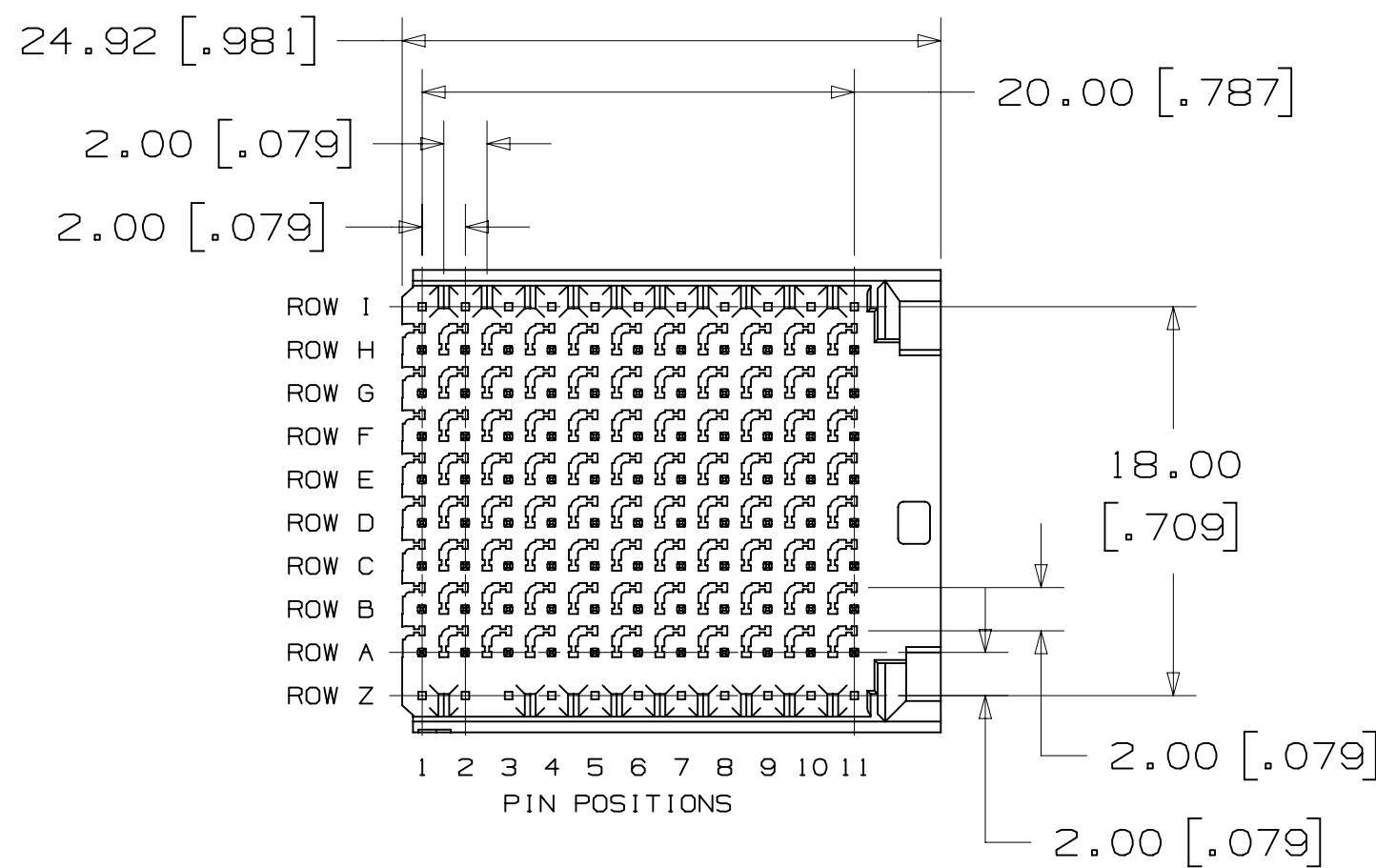
HM-H176DG1-8CX1
HM-H220DG2-8BX1

HM-H176DPWR1-8CXX
HM-H220DPWR2-8BXX

POWER TAILS
(4 CONTACTS,
12 LEADS)

ESD PIN TAIL
LENGTH

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

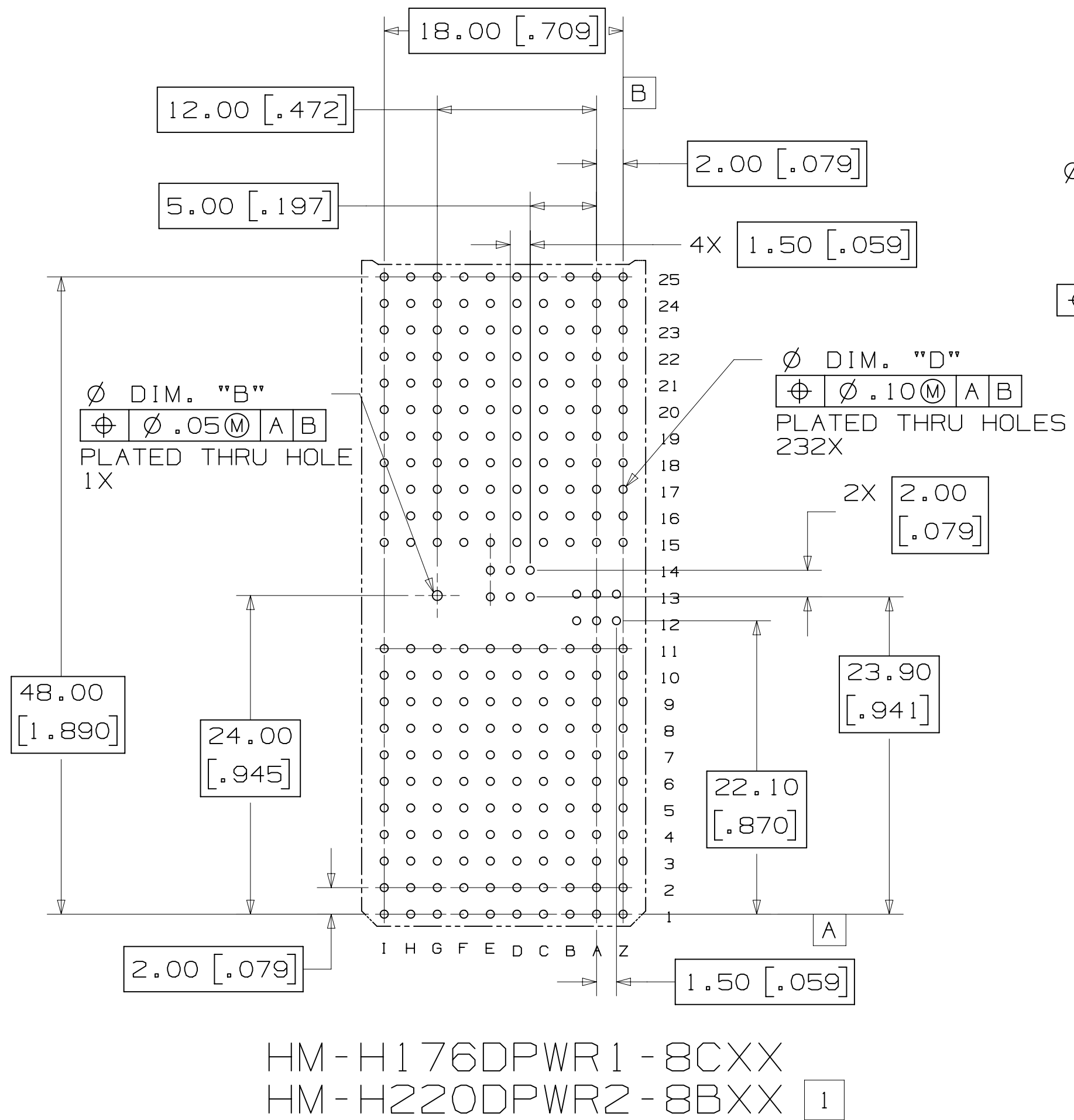
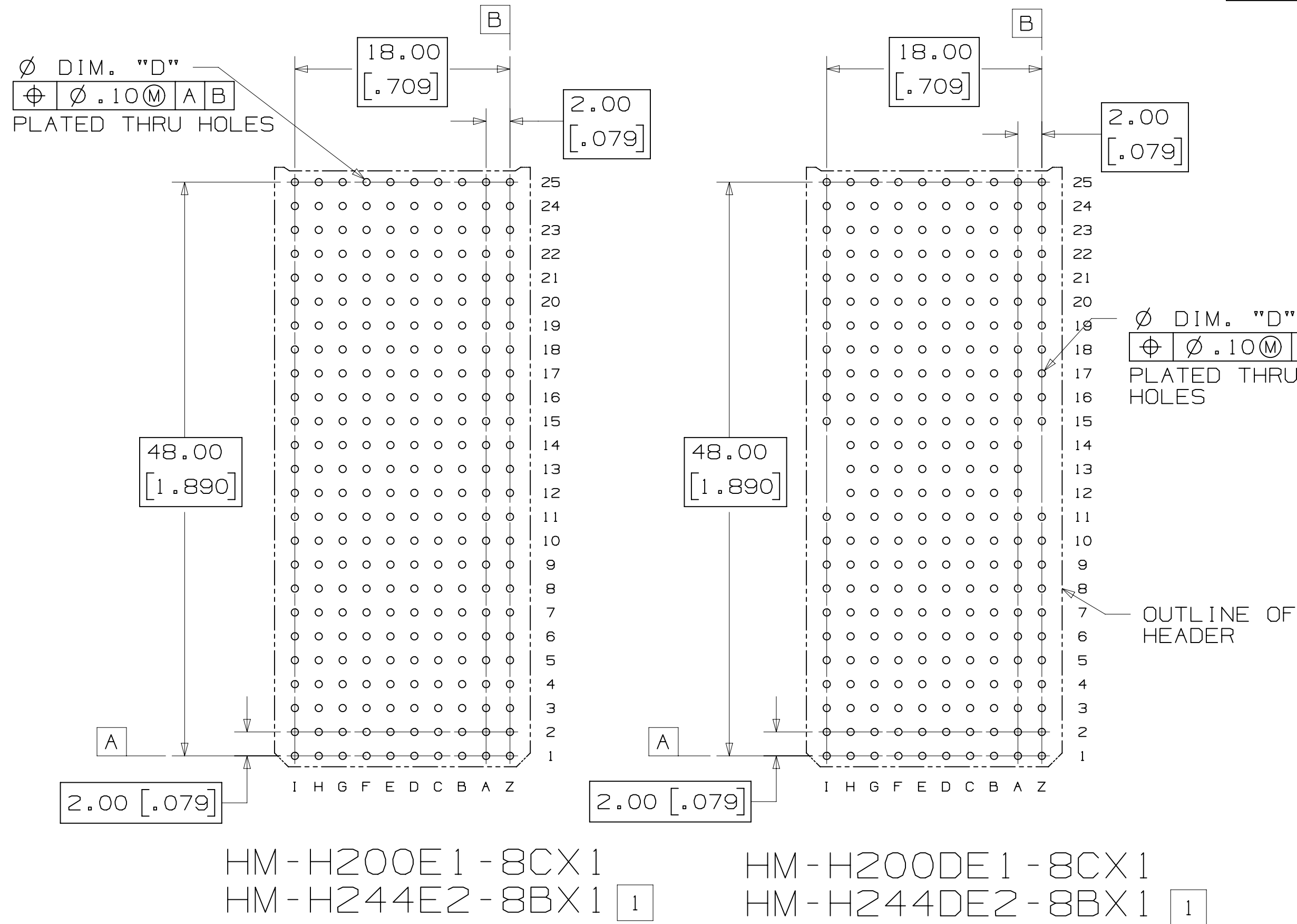


HM-H088FL1-8CX1
HM-H110FL2-8BX1

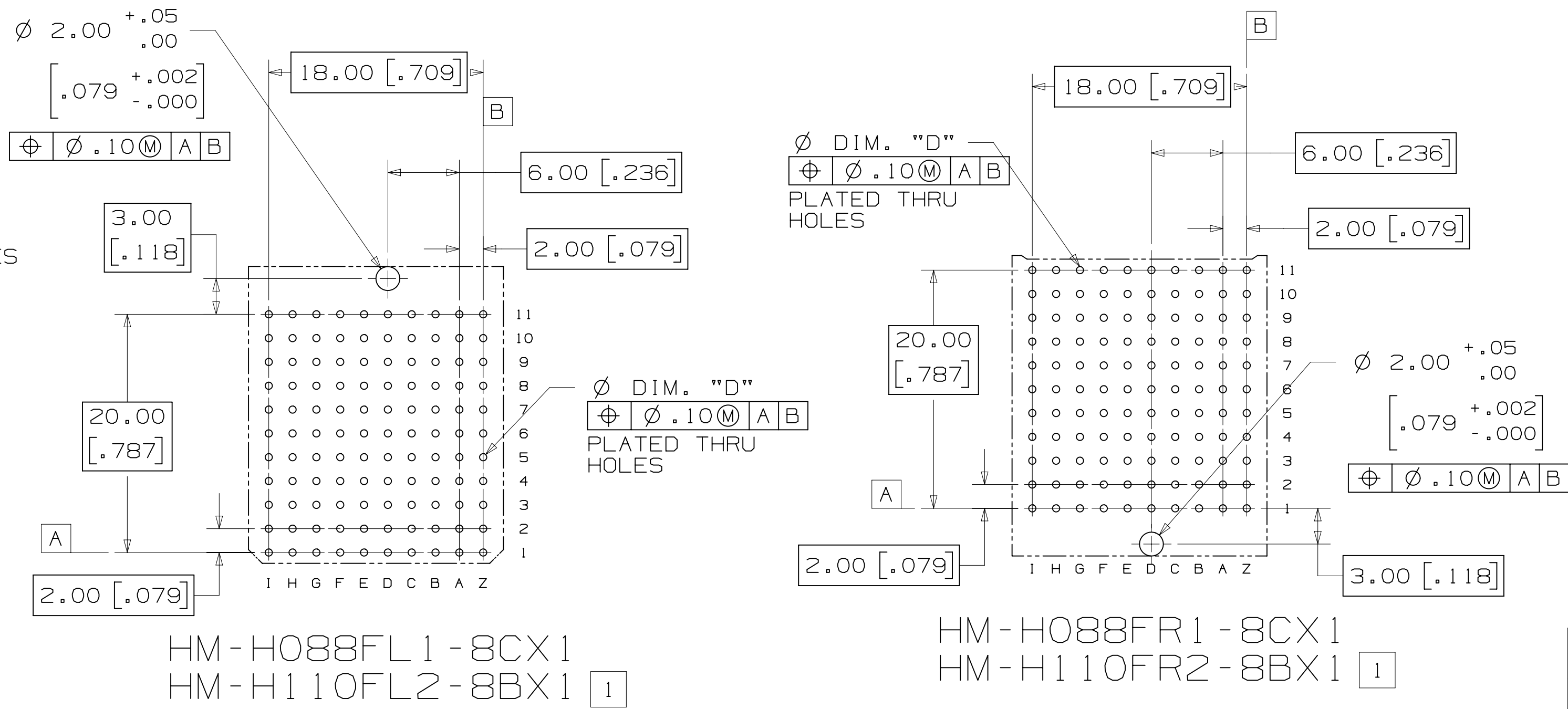
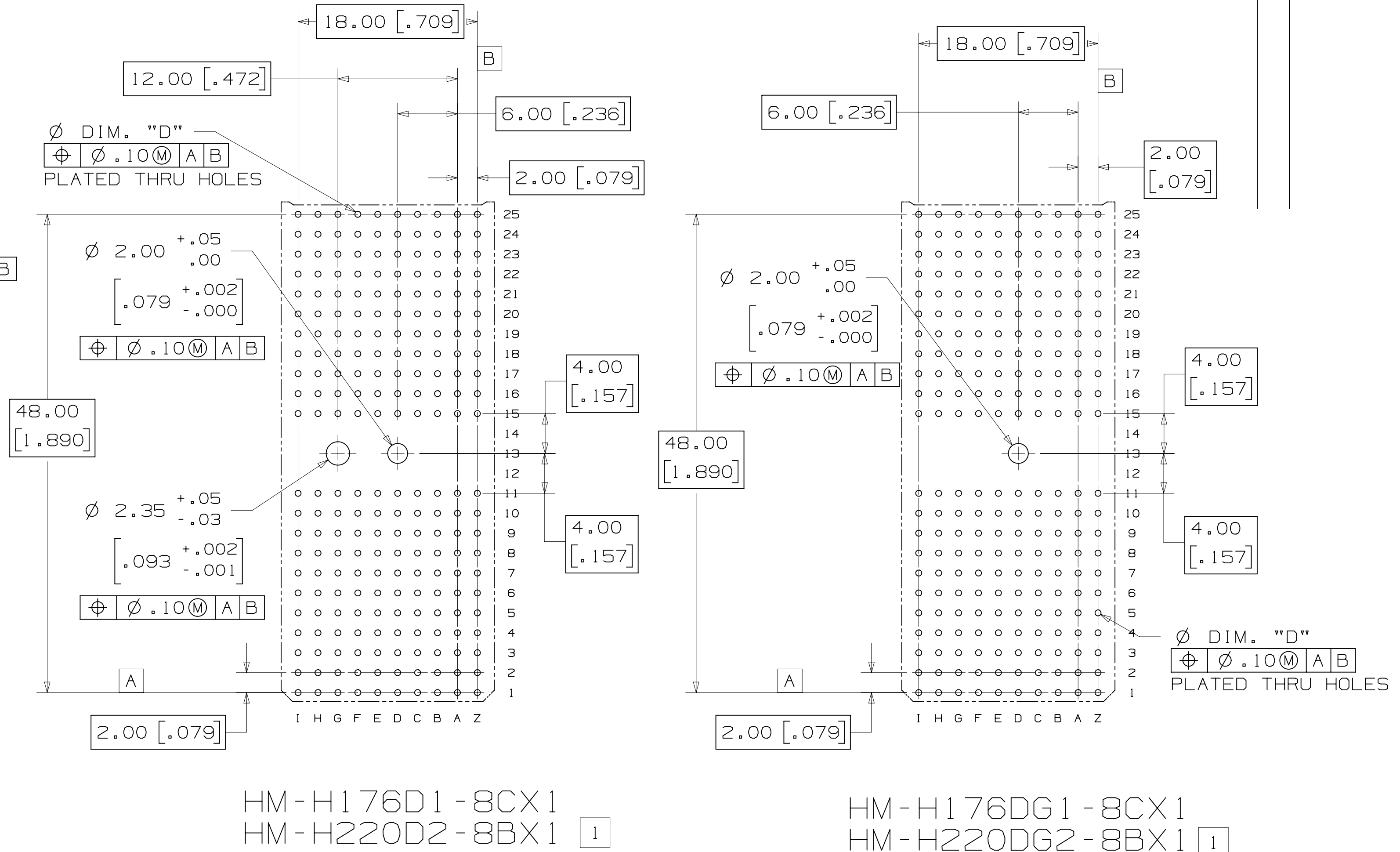
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HM-H110FR2-8BXX

DESIGN REFERENCE		NEXT ASSEMBLY		A 39815		MAR 28, 2012		JNC	TS
REV		ECO		ISSUE DATE AND DESCRIPTION		DRFT		CHKD	
DISTRIB CODES		DIVISION CODE		DATE		MFG		DATE	
CHKD		CHKD		DATE		APPR		DATE	
Interconnect Solutions		ISD		T. SUNIGA		MAR 28, 2012		MAR 28, 2012	
DO NOT SCALE DRAWING		SCALE 3/1		TOLERANCES EXCEPT AS NOTED		INCHES		MILLIMETERS	
THIRD ANGLE PROJECTION		INTERPRET PER ASME Y14.5 - 1994		MAX SURFACE ROUGHNESS		0.00 ± .01		0.00 ± .005	
MAX SURFACE ROUGHNESS		0.00 ± .01		0.00 ± .005		0.00 ± .01		0.00 ± .005	
MARKED ONLY		ANGLES		CAGE NUMBER		SIZE		DRAWING NO.	
DET		LISTS		YES		NO		SHT 3 OF 4	
TITLE		HM PRESS-FIT HEADER, 8-ROW, HM SERIES		CAGE NUMBER		D 78-5100-2517-0		REV. A	

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)

										A		39815		MAR 28, 2012				JNC		TKD							
										PRODUCTION RELEASE																	
DESIGN REFERENCE					NEXT ASSEMBLY					REV		ECO		ISSUE DATE AND DESCRIPTION				DRFT		CHKD							
DISTINGUISH CODES														DATE MAR 28, 2012				MFG		DATE							
														DATE MAR 28, 2012				APPRV SUNIGA		DATE MAR 28, 2012							
DIVISION					DIVISION CODE					© 3M COPYRIGHT 2012																	
Interconnect Solutions					ISD									3M Center St. Paul, MN 55144										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.			
DO NOT SCALE DRAWING					SCALE $\frac{1}{1}$					TOLERANCES EXCEPT AS NOTED																	
										INCHES																	
										$.0 \pm .00$ $.00 \pm .01$ $.000 \pm .005$ $.0000 \pm$																	
THIRD ANGLE PROJECTION										TITLE																	
INTERPRET PER ASME Y14.5 - 1994										HM PRESS-FIT HEADER, 8-ROW, HM SERIES																	
MAX SURFACE ROUGHNESS					MILLIMETERS					CAGE NUMBER										REV.							
$.00 \pm .13$					0 ±					SIZE										DRAWING NO.							
ALL SURFACES					$.00 \pm .03$					D78-5100-2517-0										A							
☒ MARKED ONLY					ANGLES					MODEL										DET. LISTS							
																				YES ☒ NO ☐							
																				SHT 4 OF 4							



**Стандарт
Электрон
Связь**

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Электронная почта: sales@st-electron.ru

Адрес: 198099, Санкт-Петербург,
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