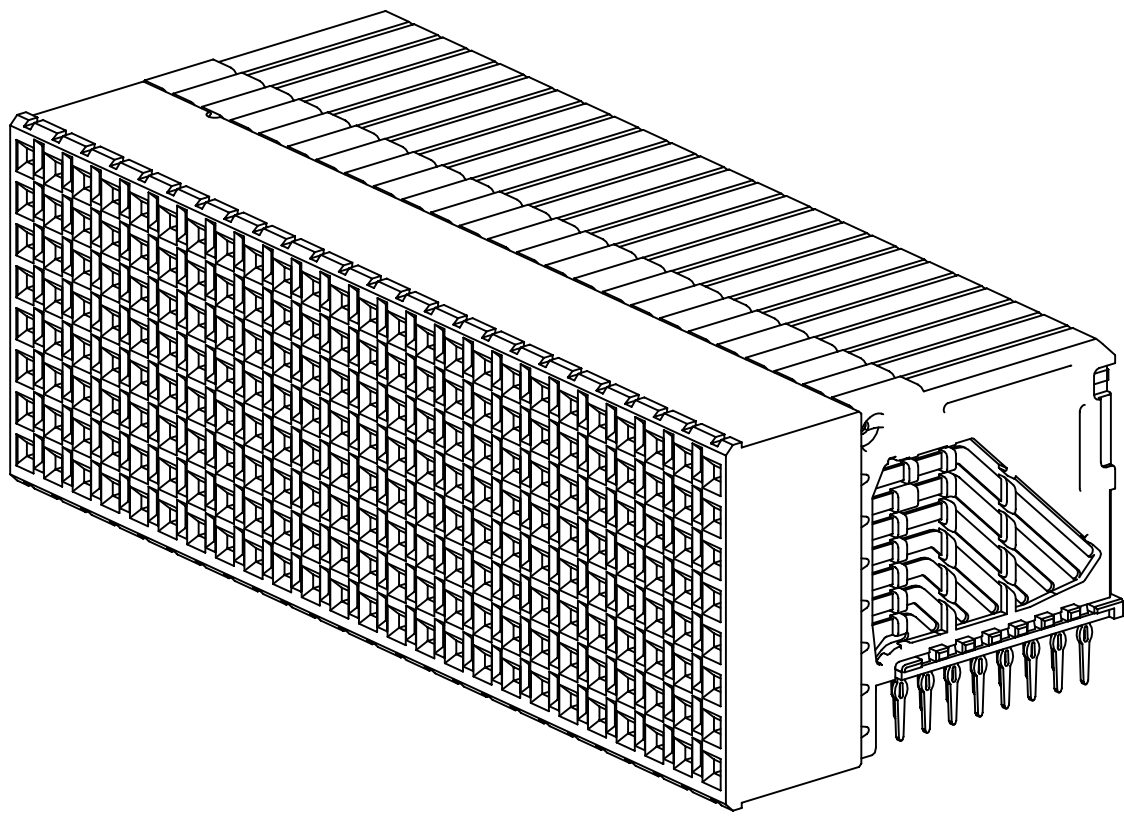


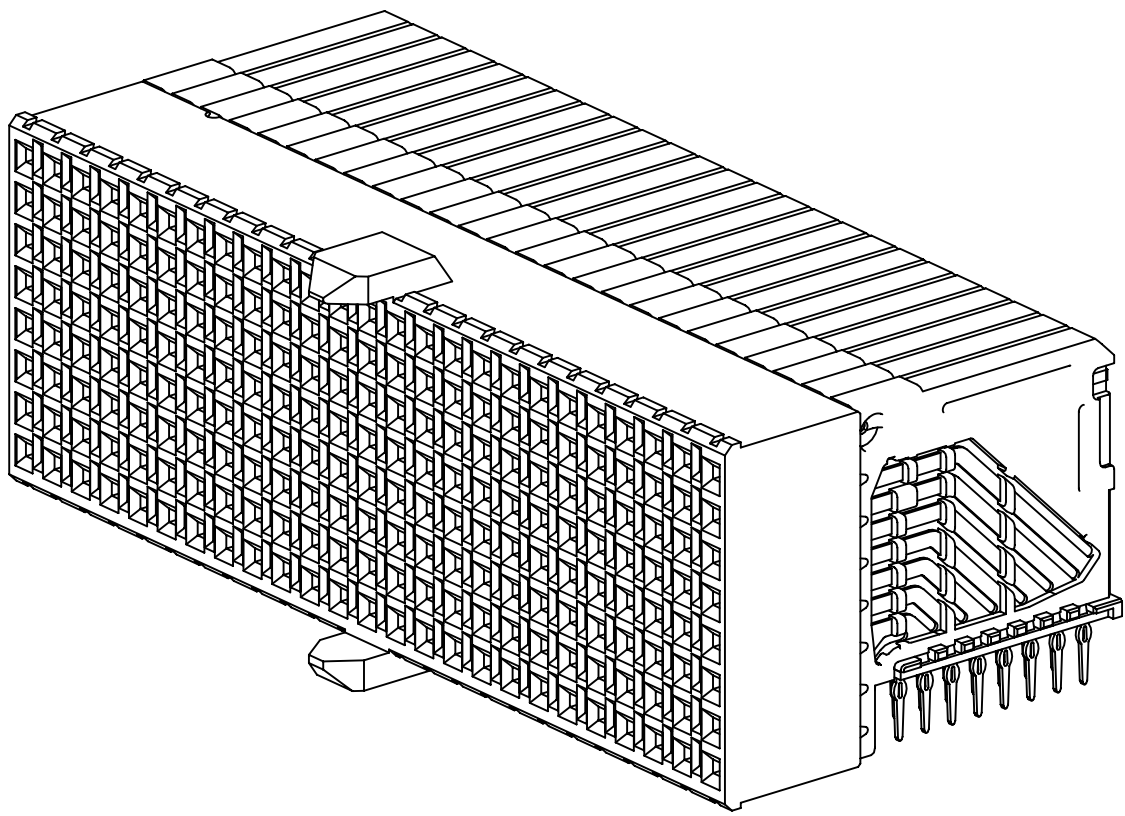
3M™ HM PRESS-FIT SOCKET, 8-ROW, HM SERIES
FOR HARD METRIC APPLICATIONS

- * MODULAR/SCALABLE FORMAT: IEC 61076-101.
- * 101 MATED LINES PER LINEAR INCH.
- * DUAL BEAM CONTACT CONSTRUCTION FOR HIGH RELIABILITY.
- * FOUR INTEGRATED 8.25A POWER BLADES.
- * MULTI-PURPOSE CENTER (MPC) FOR KEYING AND GUIDANCE.
- * END-TO-END STACKABLE WITH 8 ROW 3M™, HM AND HSHM PRODUCTS.
- * INTEGRATED GUIDE FINGERS.
- * MATES WITH 3M™ HSHM HEADERS.

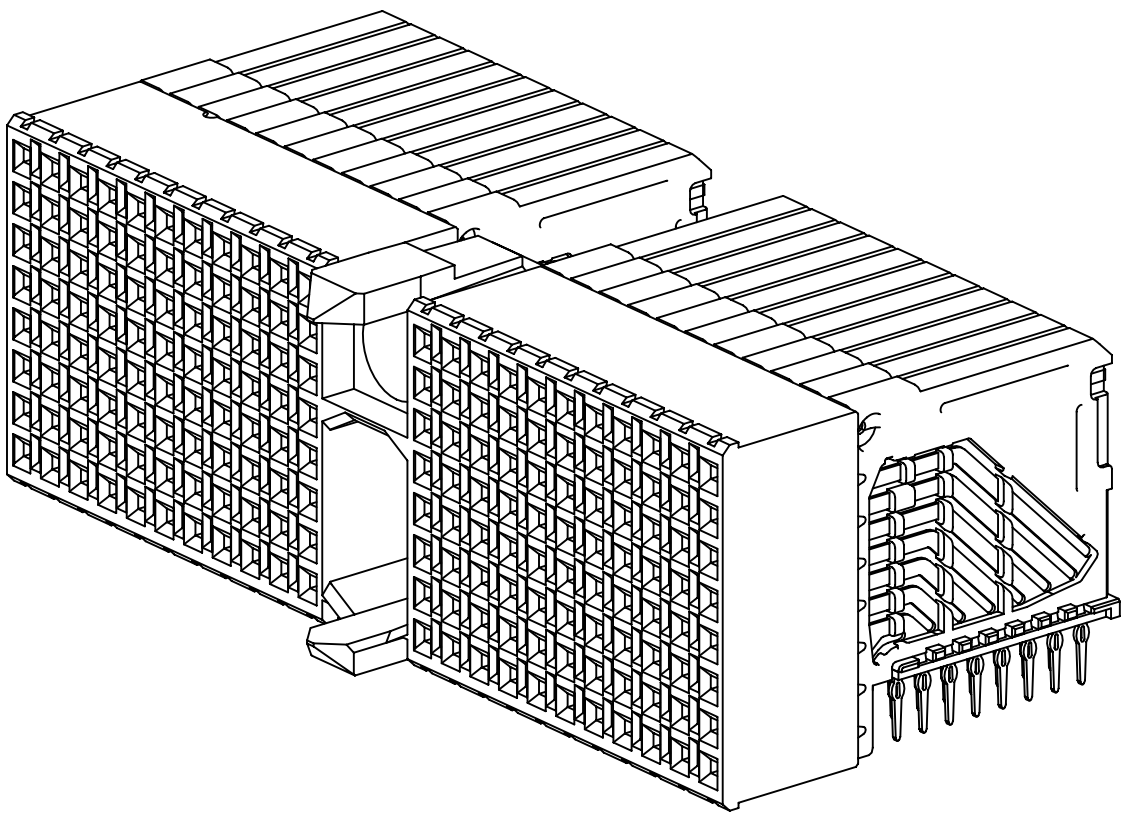
1. MATERIAL:
PLASTIC: HIGH TEMP LCP,
UL94V-0
CONTACTS: COPPER ALLOY.
2. REGULATORY INFORMATION:
ROHS COMPLIANT. SEE THE REGULATORY
INFORMATION APPENDIX (RIA) IN THE
"ROHS COMPLIANCE" SECTION OF
WWW.3MCONNECTORS.COM FOR COMPLIANCE
INFORMATION (RIA E1 & C1 APPLY)
3. IN THE EVENT OF CONFLICT
BETWEEN THIS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



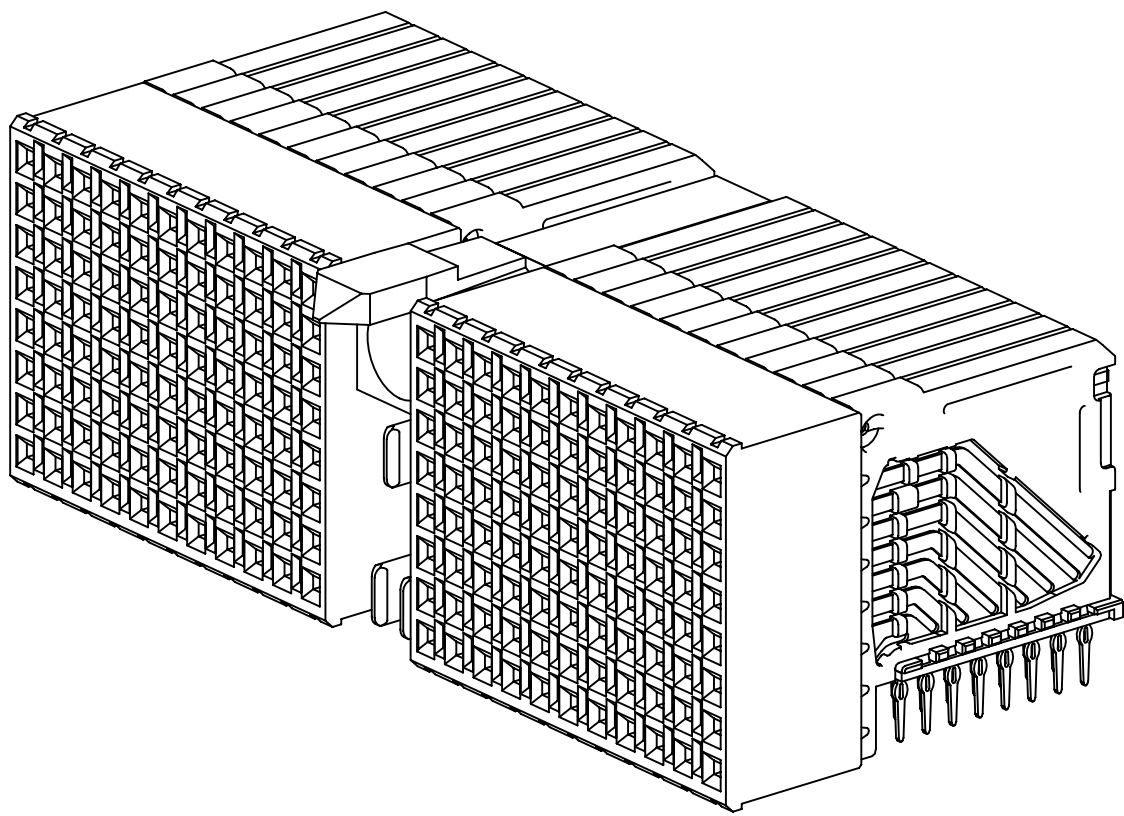
HM-S200E1-8AP1



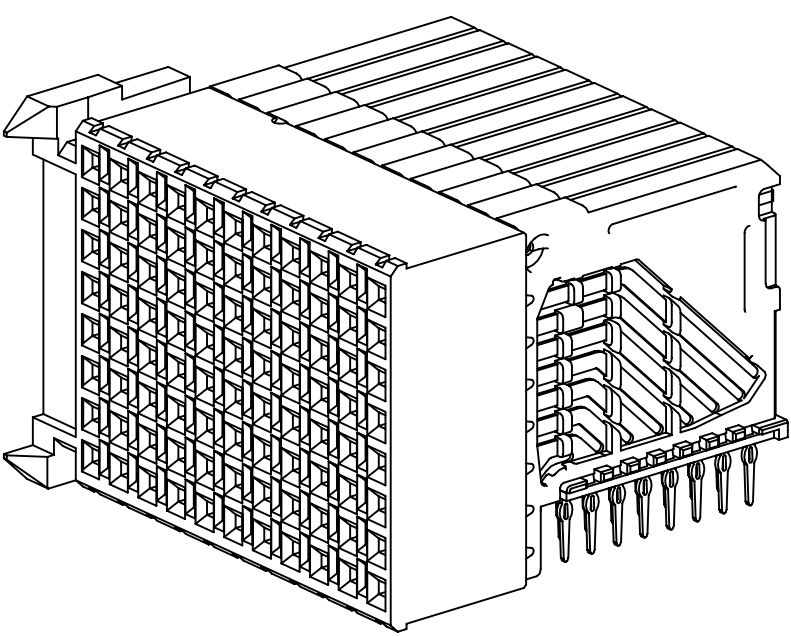
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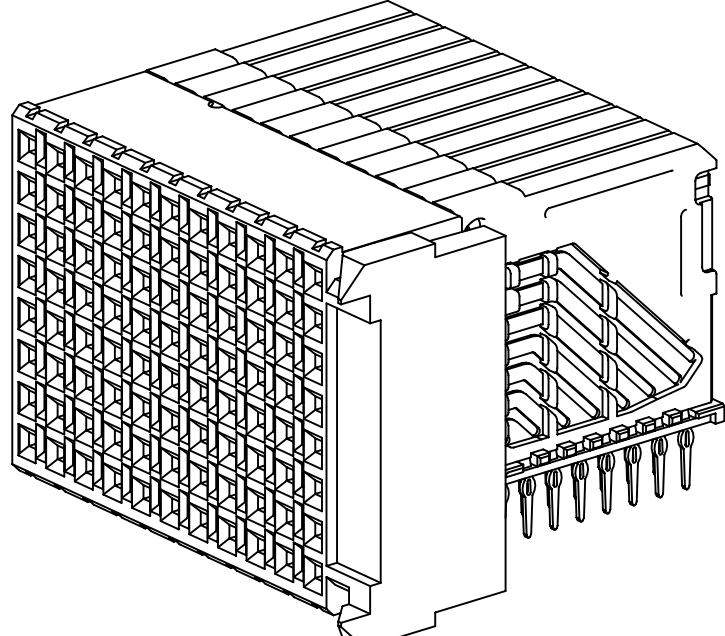
HM-S176D1-8AP1



HM-S176DPWR1-8AP1



HM-S088FL1-8AP1



HM-S088FR1-8AP1

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.

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

ORDERING INFORMATION

HM-SXXXXX1-8AP1-XXXXX

SOCKET POSITION
AND TYPE

PLATING:

- TG30L = .76 μ m [30 μ IN] MIN. GOLD ON CONTACT AREA, LUBRICATED
2.54 μ m [100 μ IN] MIN. TIN/LEAD ON TERMINAL AREA (RIA C2 & E3 APPLY)
1.27 μ m [50 μ IN] MIN. NICKEL ALL OVER.
TYPICALLY HIGHER MAKE ORDER QUANTITIES AS COMPARED TO TG30.
- TG30 = .76 μ m [30 μ IN] MIN. GOLD ON CONTACT AREA
2.54 μ m [100 μ IN] MIN. TIN/LEAD ON TERMINAL AREA (RIA C2 & E3 APPLY)
1.27 μ m [50 μ IN] MIN. NICKEL ALL OVER.
STANDARD OPTION.
- TG50 = 1.27 μ m [50 μ IN] MIN. GOLD ON CONTACT AREA, LUBRICATED
2.54 μ m [100 μ IN] MIN. TIN/LEAD ON TERMINAL AREA (RIA C2 & E3 APPLY)
1.27 μ m [50 μ IN] MIN. NICKEL ALL OVER.
NON-STANDARD OPTION (AVAILABLE WITH LONGER LEAD TIMES AND
HIGHER MAKE ORDER QUANTITIES, MOQ)

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

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FOR TECHNICAL, SALES OR ORDERING
INFORMATION CALL 800-225-5373

UL
UL FILE NO: E68080

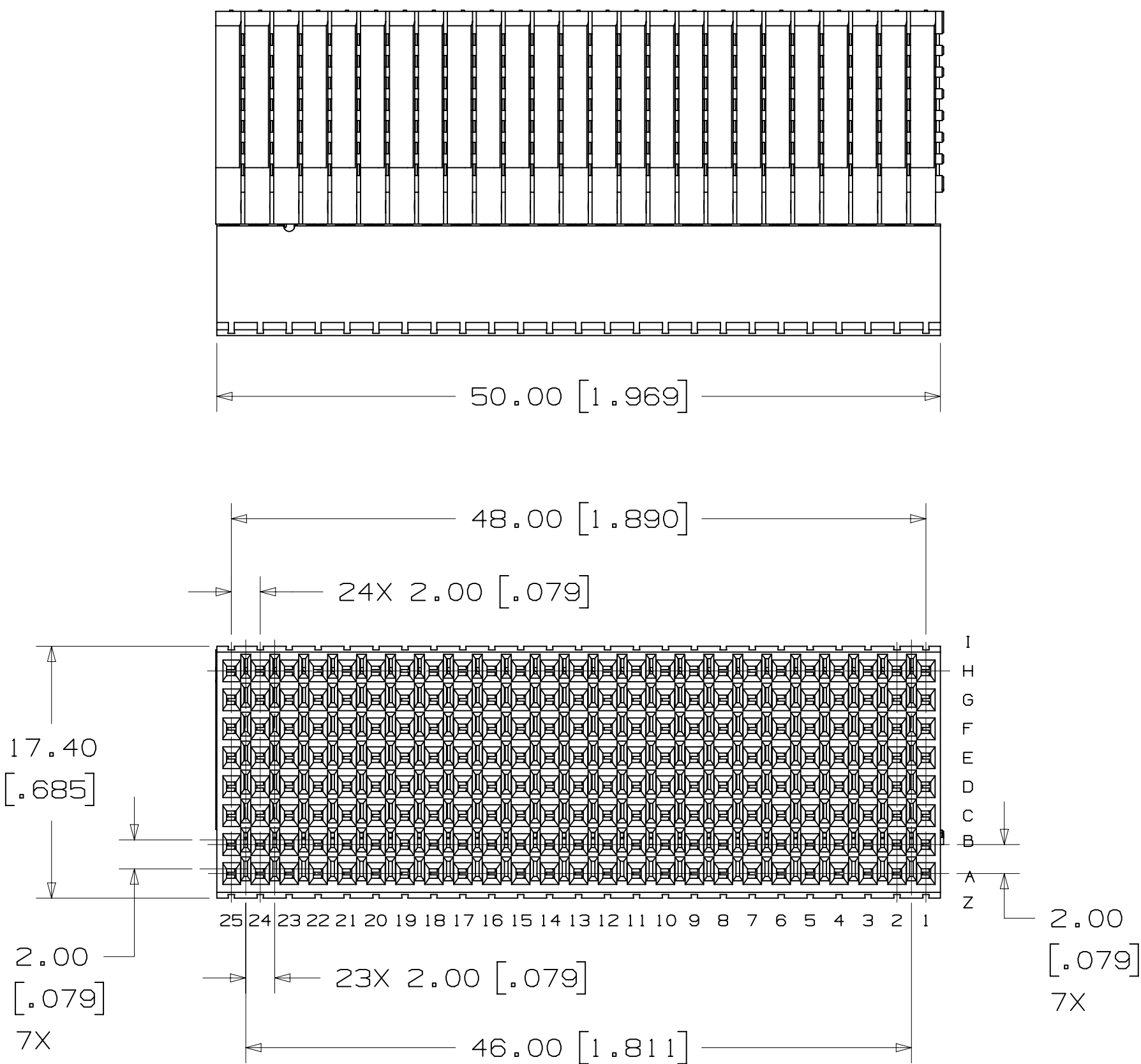
DIMENSIONS: MM [INCHES]

DESIGN REFERENCE	NEXT ASSEMBLY
3M CODES	DIVISION CODE
DO NOT SCALE DRAWING	SCALE 1
THIRD ANGLE PROJECTION	INTERPRET PER ASME Y14.5 - 1994
MAX SURFACE ROUGHNESS	0.000 ± .000
MARKED ONLY	ANGLES

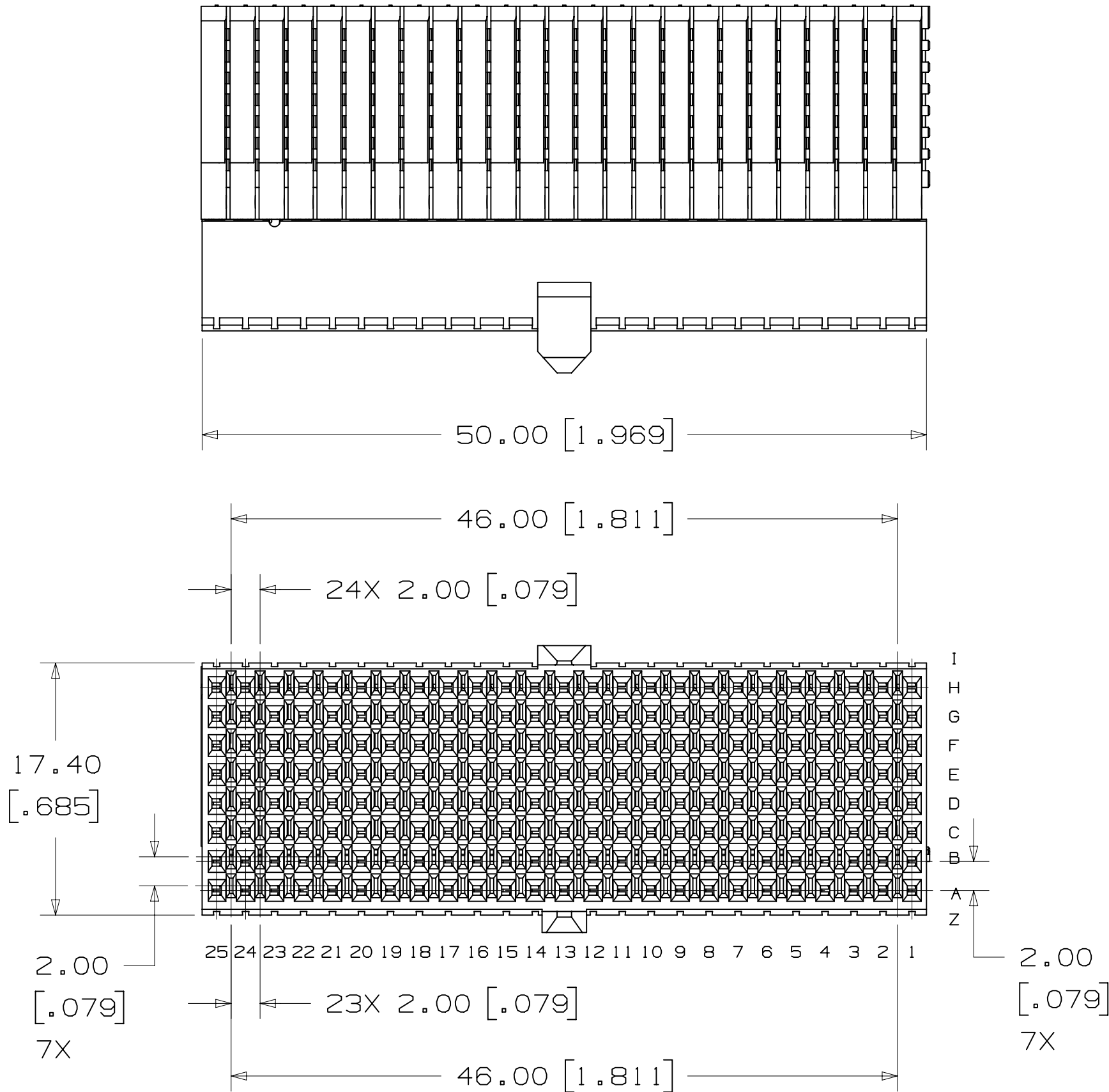
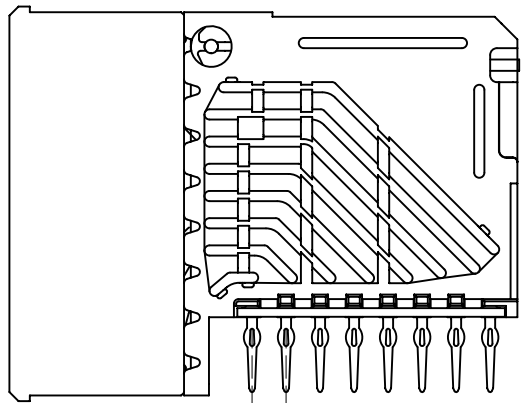
B	50345	OCT 07,2013 REMOVED KR PLATING. REVISE RIA CALLOUT	JNC	TS
A	39778	MAR 23,2012 PRODUCTION RELEASE	JNC	TS
REV	ECO	ISSUE DATE AND DESCRIPTION	DRFT	CHKD
CHKD	CSTIGLIONE	MAR 23,2012	DATE	DATE
CHKD	T. SUNIGA	MAR 26,2012	DATE	DATE
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3M Center St. Paul, MN 55144				
TITLE HM PRESS-FIT 8-ROW SOCKET CONNECTORS, HM SERIES				
CAGE NUMBER	SIZE	DRAWING NO.	REV.	
D		78-5100-2516-2	B	
MODEL	DET	LISTS	YES	NO
			SHT	1 OF 4

Imaged: B.1 10/7/2013 2:10 PM UTC-05:00

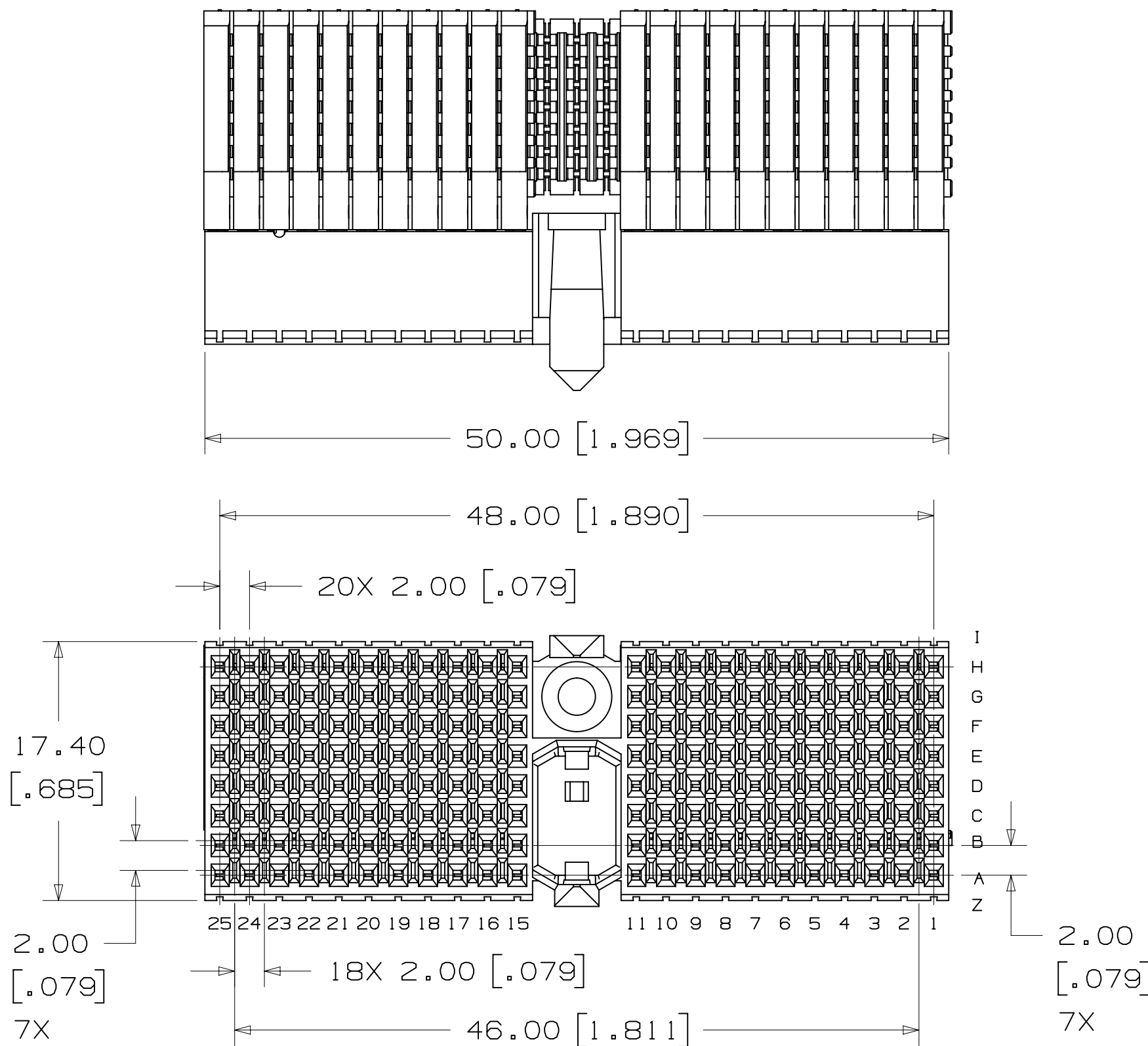
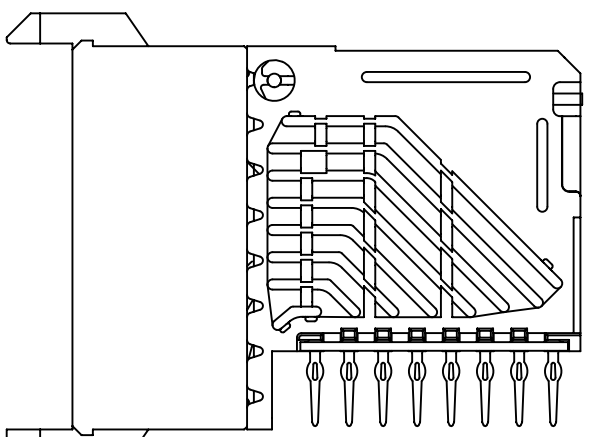
3M™ HM PRESS-FIT SOCKET, 8-ROW, HM SERIES
FOR HARD METRIC APPLICATIONS



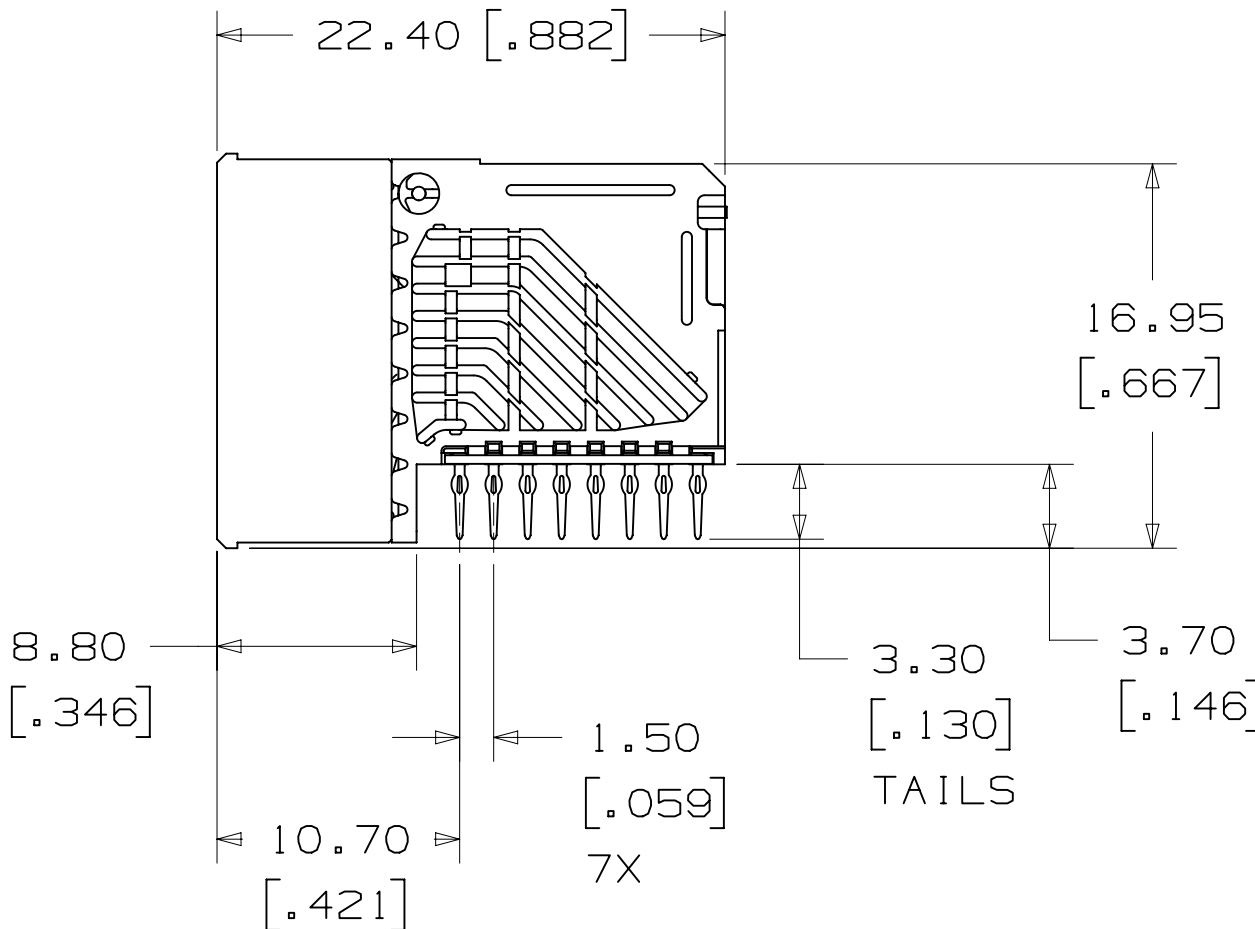
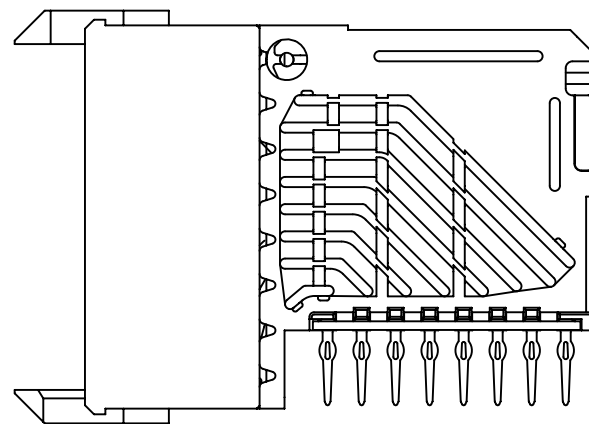
HM-S200E1-8AP1



HM-S200DE1-8AP1



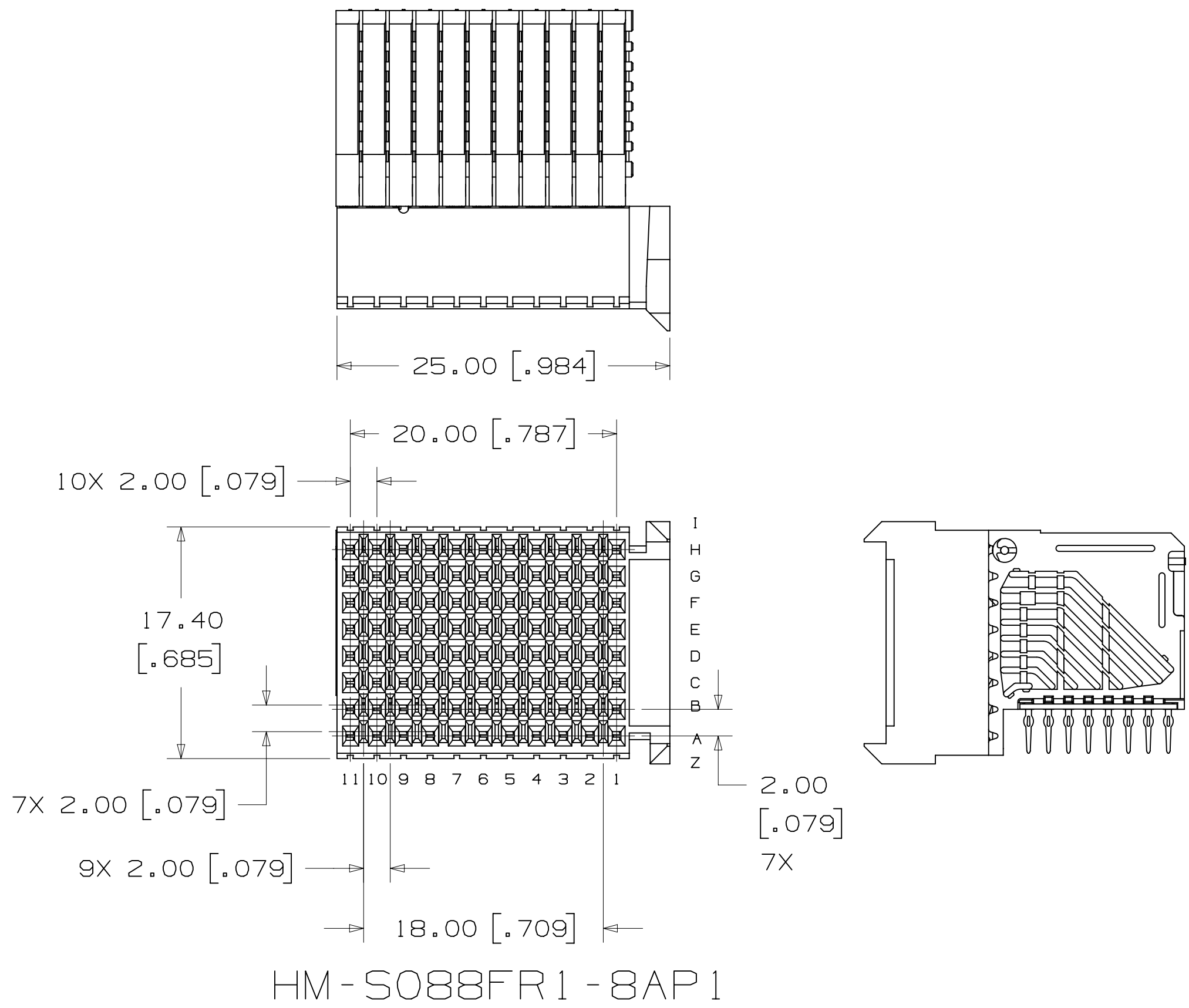
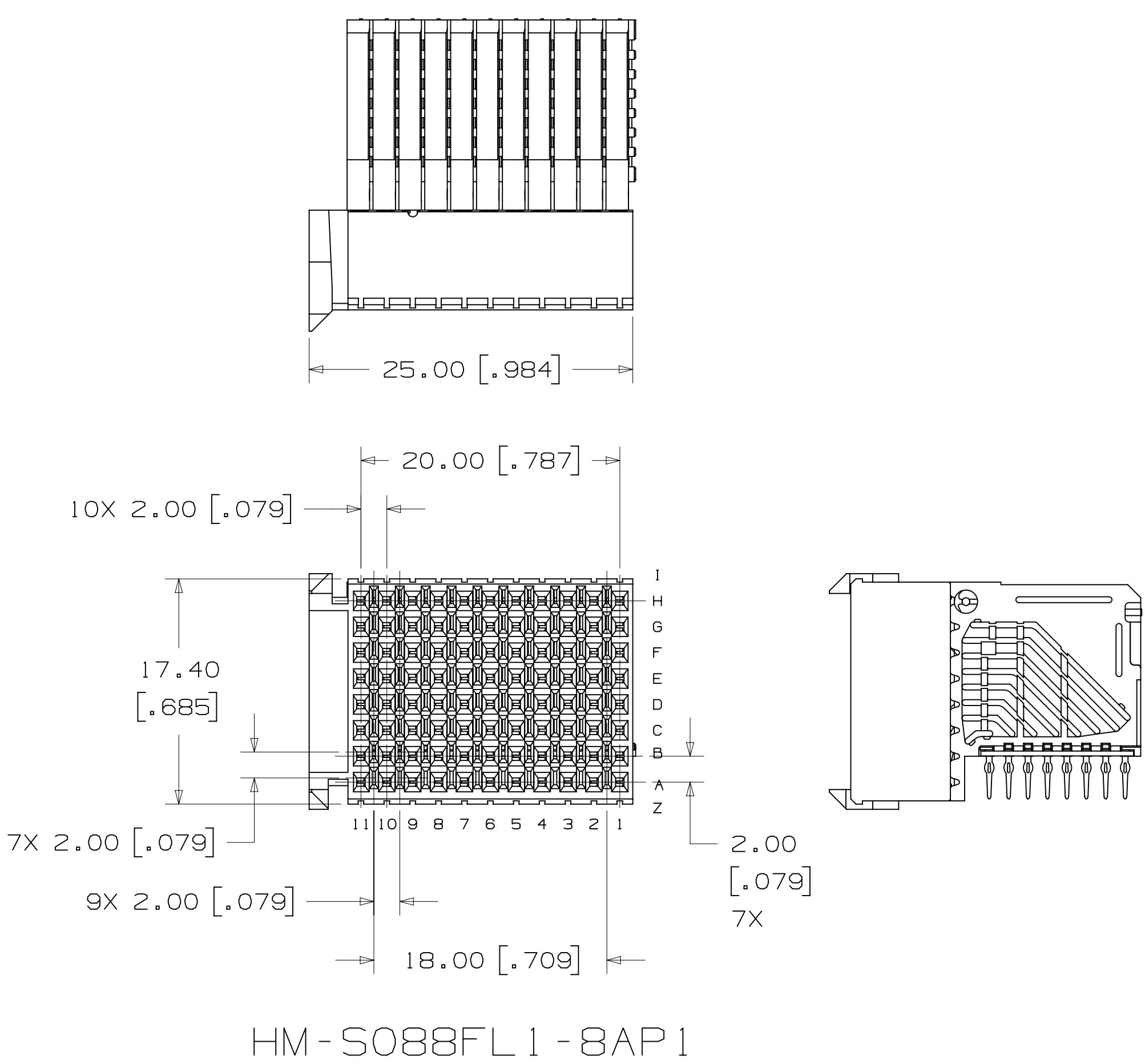
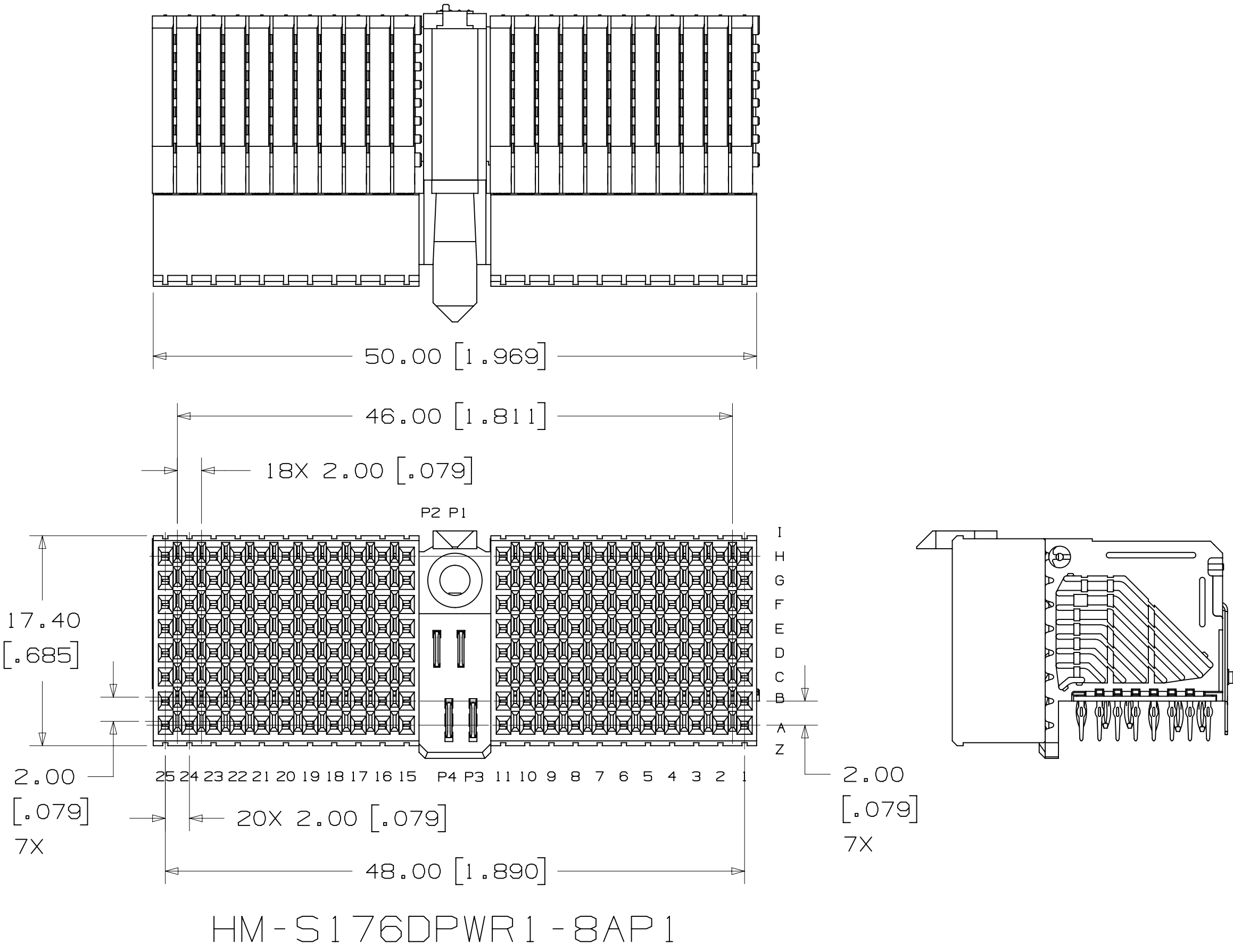
HM-S176D1-8AP1



TYPICAL SIDE VIEW
DIMENSIONS FOR THE
SOCKETS ON THIS DRAWING

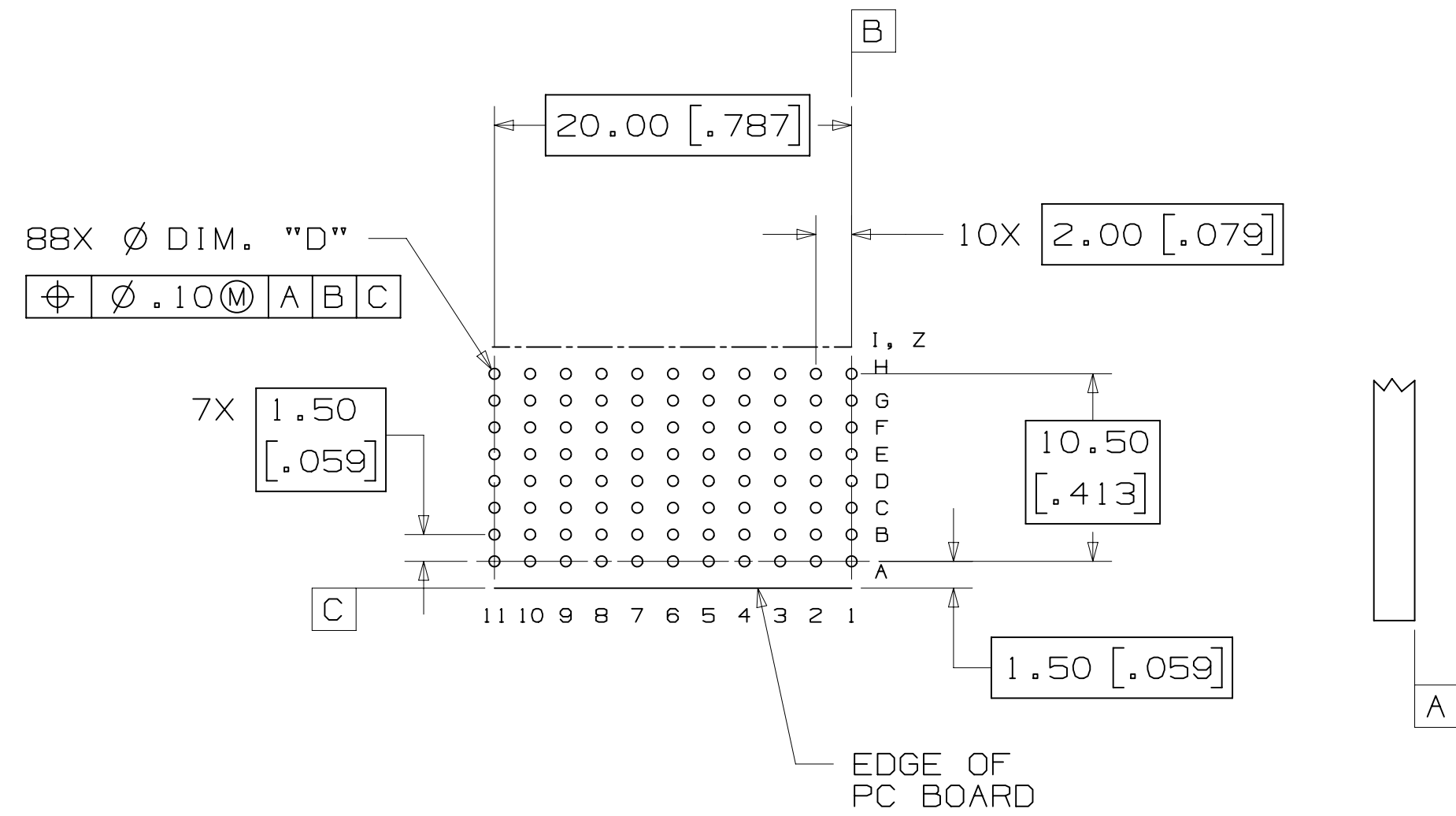
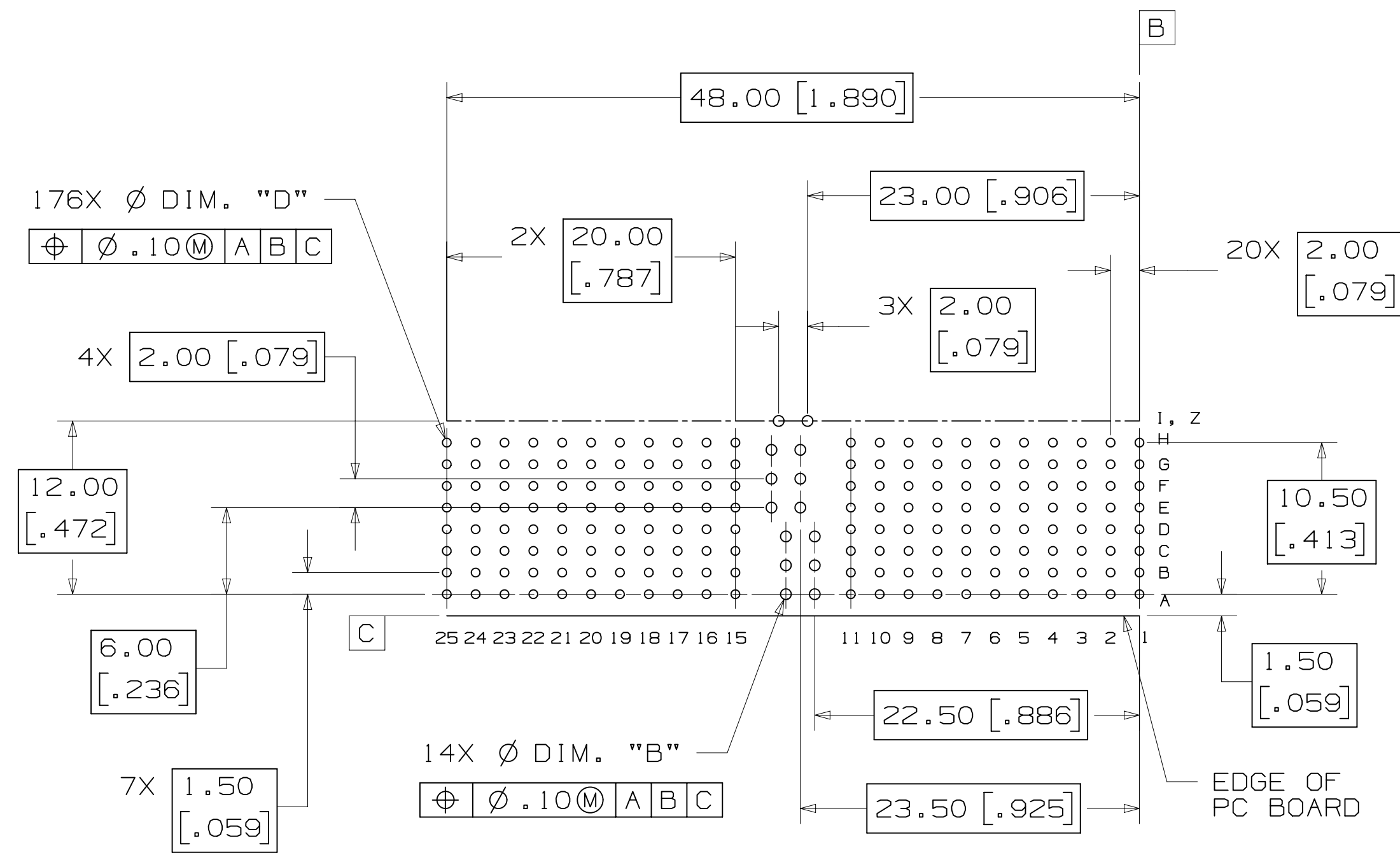
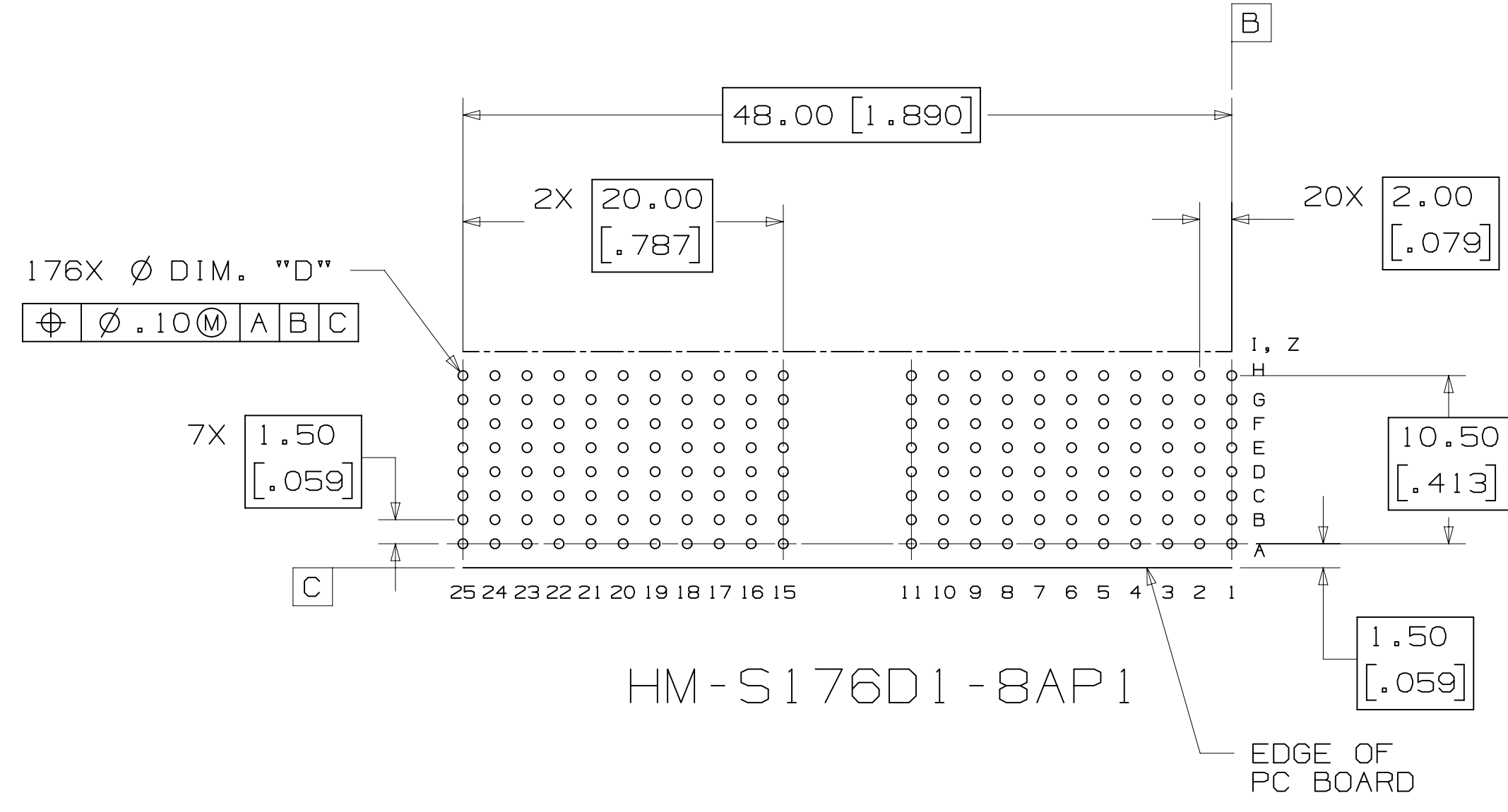
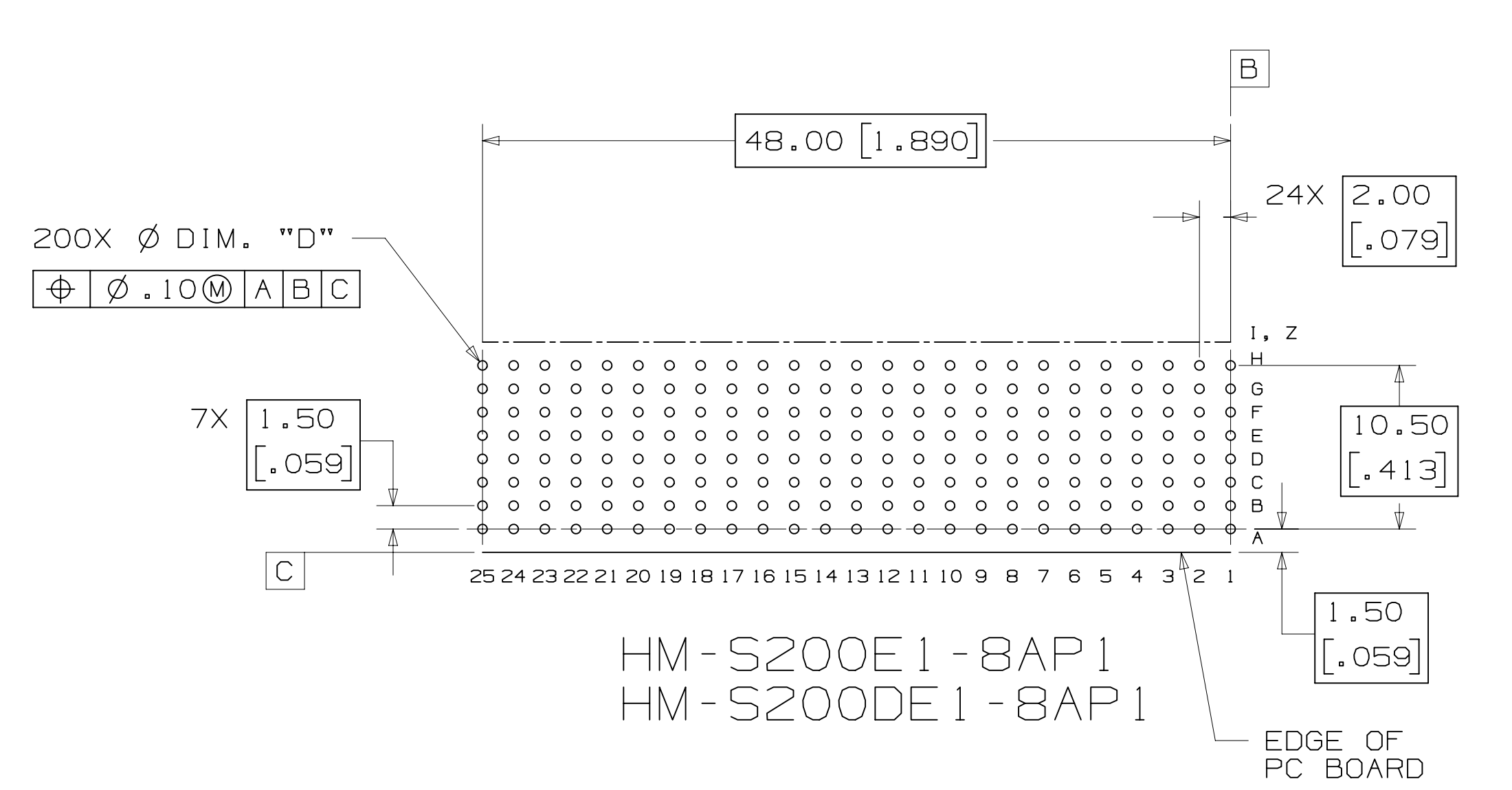
DESIGN REFERENCE	NEXT ASSEMBLY	REV	ECO	ISSUE DATE AND DESCRIPTION	DRFT	CHKD
INTERCONNECT CODES	DIVISION CODE	DR	CASTIGLIONE	MFG	DATE	DATE
DO NOT SCALE DRAWING	SCALE 3/1	TOLERANCES EXCEPT AS NOTED	INCHES .00 ± .01 .000 ± .005 .0000 ±	MILLIMETERS 0 ± .3 .00 ± .13 .000 ±	APPROVAL T. SUNIGA	DATE MAR 26, 2012
THIRD ANGLE PROJECTION	INTERPRET PER ASME Y14.5 - 1994	MAX SURFACE ROUGHNESS	1.0 SURFACES	MARKED ONLY	MODEL	LISTS
INTERCONNECT SOLUTIONS	ISD	3M	3M Center St. Paul, MN 55144	© 3M COPYRIGHT 2012	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.	REV. B
TITLE		HM PRESS-FIT 8-ROW SOCKET CONNECTORS, HM SERIES		CAGE NUMBER		SIZE
DRAWING NO.		D78-5100-2516-2		REV. B		SHT 2 OF 4

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



DESIGN REFERENCE		NEXT ASSEMBLY		REV		ECO		ISSUE DATE AND DESCRIPTION		DRFT	CHKD
DIVISION		DIVISION CODE		DR		DATE		MFG		DATE	
Interconnect Solutions		ISD		CASTIGLIONE		MAR 23,2012		T. SUNIGA		MAR 26,2012	
DO NOT SCALE DRAWING		SCALE 3/1		TOLERANCES EXCEPT AS NOTED		INCHES		MILLIMETERS		0 ± .01	
THIRD ANGLE PROJECTION		INTERPRET PER ASME Y14.5 - 1994		MAX SURFACE ROUGHNESS		0 ± .005		0 ± .13		0 ± .000	
MARKED ONLY		ANGLES		CAGE NUMBER		SIZE		DRAWING NO.		REV.	
				D		78-5100-2516-2		B		B	
				MODEL		DET		YES		NO	
										SHT 3 OF 4	

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



RECOMMENDED PCB MOUNTING HOLE PATTERN
(VIEWED FROM COMPONENT SIDE)

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]

				B 503445		OCT 07, 2013		JNC		TS	
						REMOVED KR PLATING. REVISE R1A CLALOUT					
				A 39778		MAR 23, 2012		JNC		TS	
						PRODUCTION RELEASE					
DESIGN REFERENCE				NEXT ASSEMBLY				REV		ECO	
ADDRESS CODES								DATE MFG		DATE	
				DRFT CASTIGLIONE				MAR 23, 2012			
				CHKD				DATE		DATE	
								APPROV. T. SUNIGA		MAR 26, 2012	
DIVISION				DIVISION CODE							
Interconnect Solutions				ISD							
DO NOT SCALE DRAWING				SCALE 3 1				TOLERANCES EXCEPT AS NOTED			
				INCHES							
THIRD ANGLE PROJECTION											
INTERPRET PER ASME Y14.5 - 1994				MILLIMETERS							
				.00 ± .01							
				.000 ± .005							
				.0000 ±							
				.0 ± .3							
				.00 ± .13							
				.000 ±							
MAX SURFACE ROUGHNESS											
SURFACES											
✓ ☐ MARKED ONLY											
				ANGLES							

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TITLE		HM PRESS-FIT 8-ROW SOCKET CONNECTORS, HM SERIES			
CAGE NUMBER	SIZE	DRAWING NO.		REV.	
D		78-5100-2516-2		B	
MODEL		DET. LISTS		YES ☒ NO	
		SHT		4 OF 4	