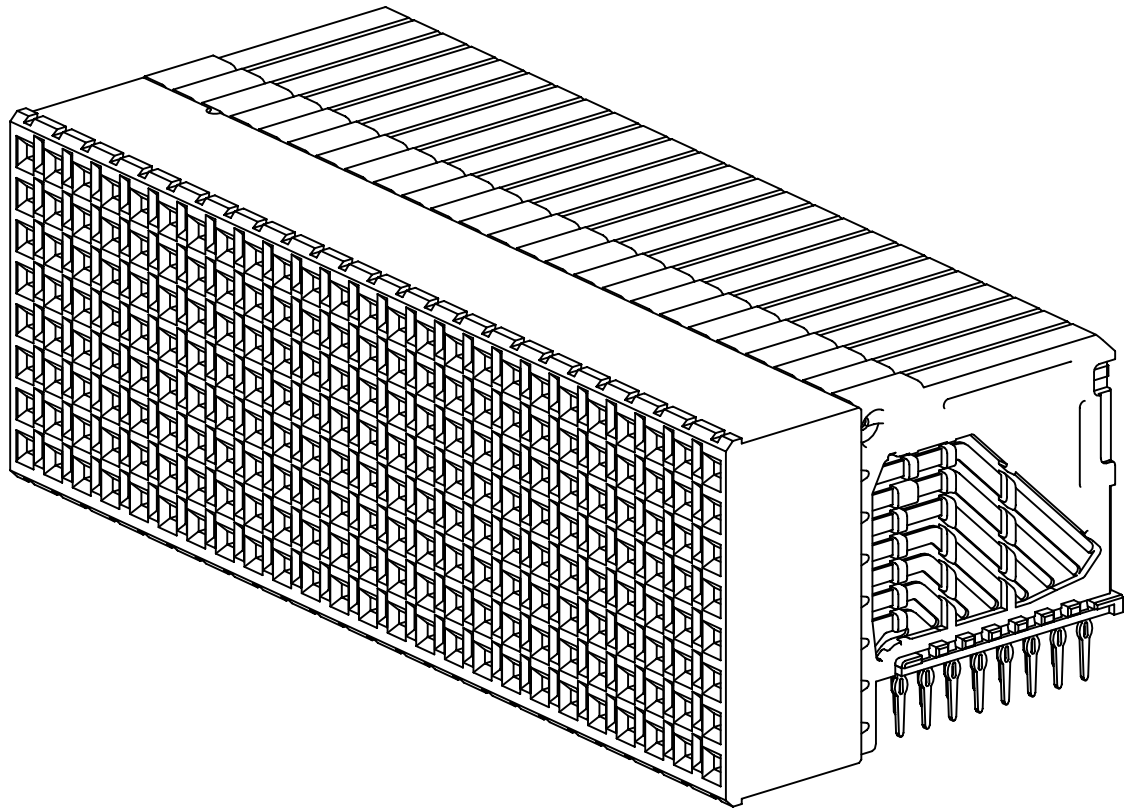


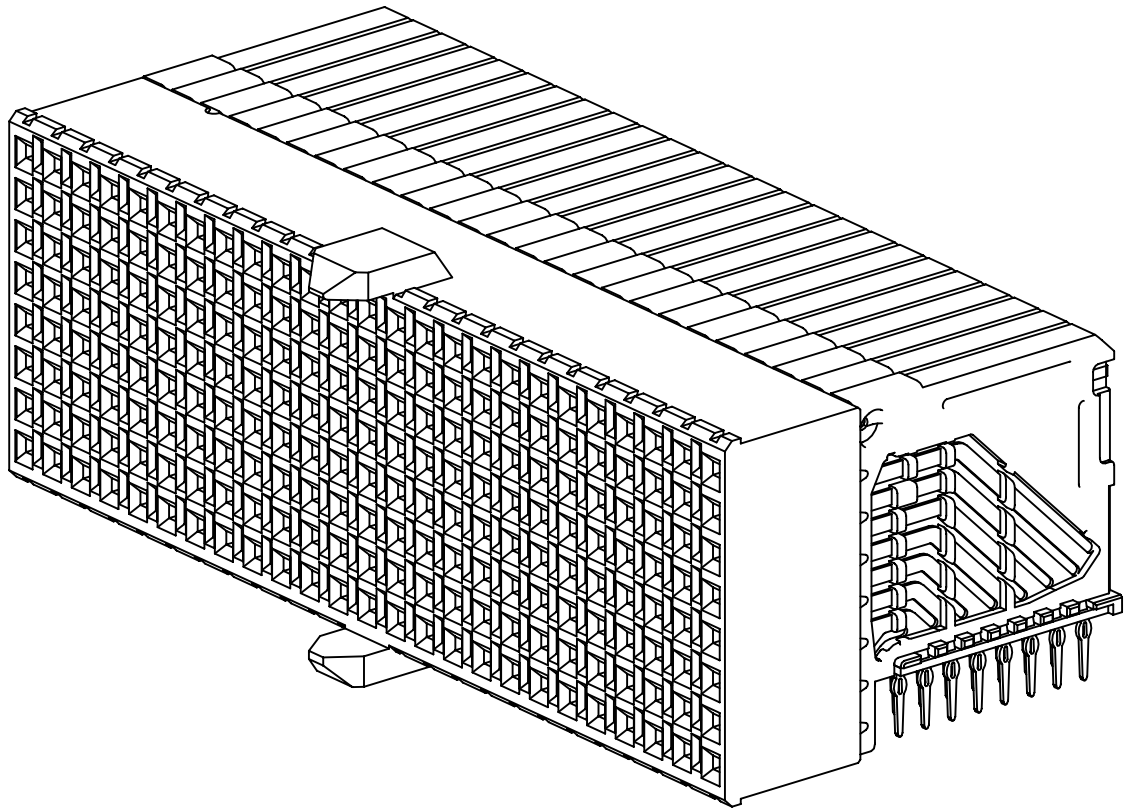
3M™ HM PRESS-FIT SOCKET, 8-ROW, HM SERIES
FOR HARD METRIC APPLICATIONS

- * 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.

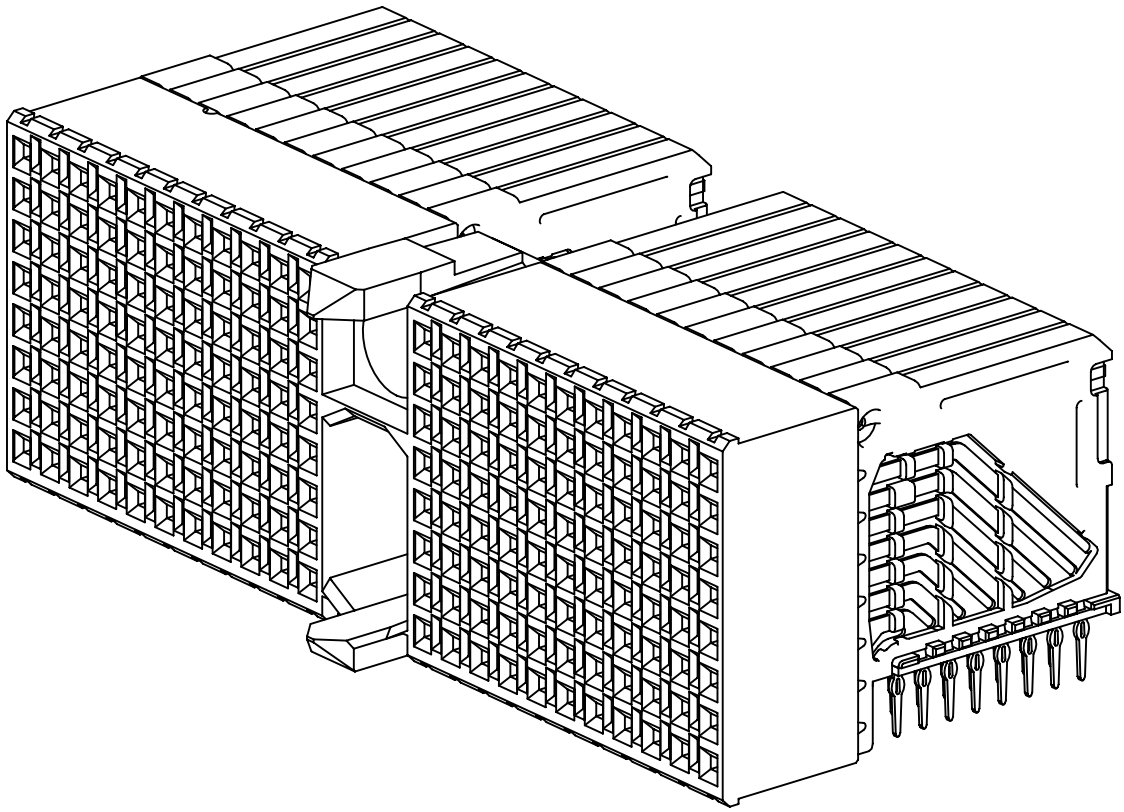
1. MATERIAL:
PLASTIC: HIGH TEMP LCP,
UL94V-0
CONTACTS: COPPER ALLOY.
2. REGULATORY INFORMATION:
ROHS COMPLIANT. SEE THE REGULATORY
INFORMATION APPENDIX (RIA) IN THE
"ROHS COMPLIANCE" SECTION OF
WWW.3MCONNECTORS.COM FOR COMPLIANCE
INFORMATION (RIA E1 & C1 APPLY)
3. IN THE EVENT OF CONFLICT
BETWEEN THIS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



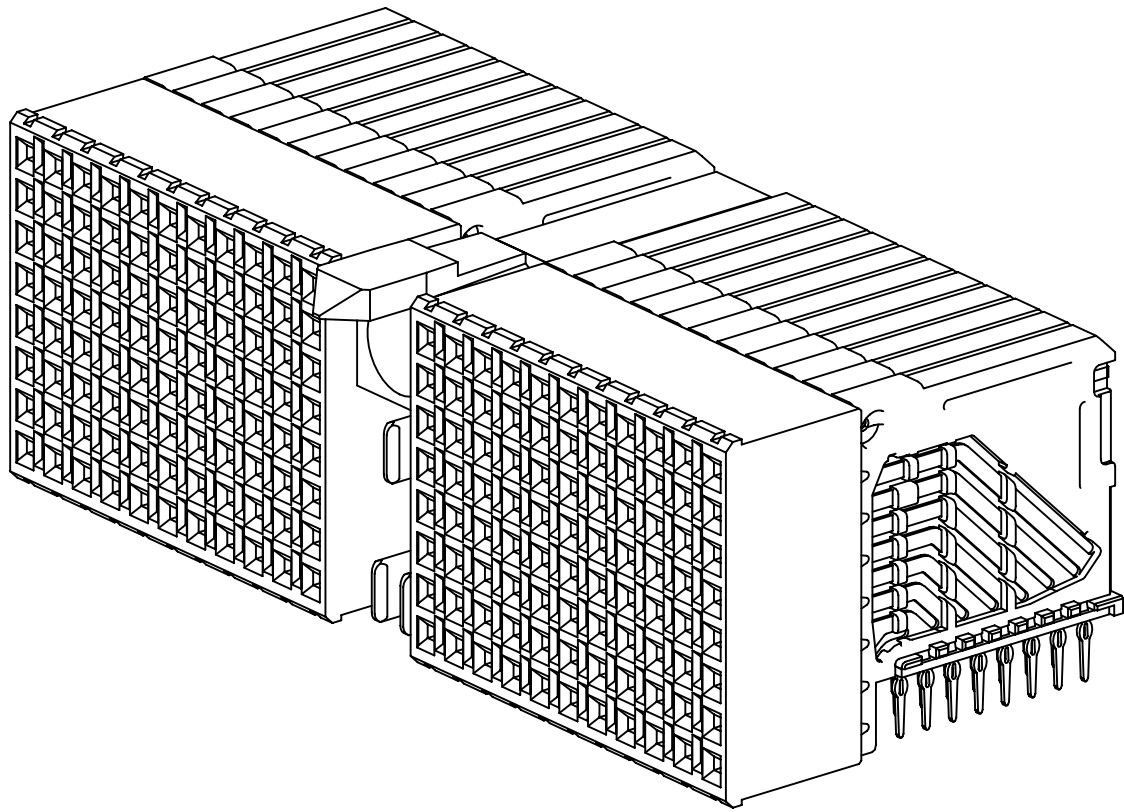
HM-S200E1-8AP1



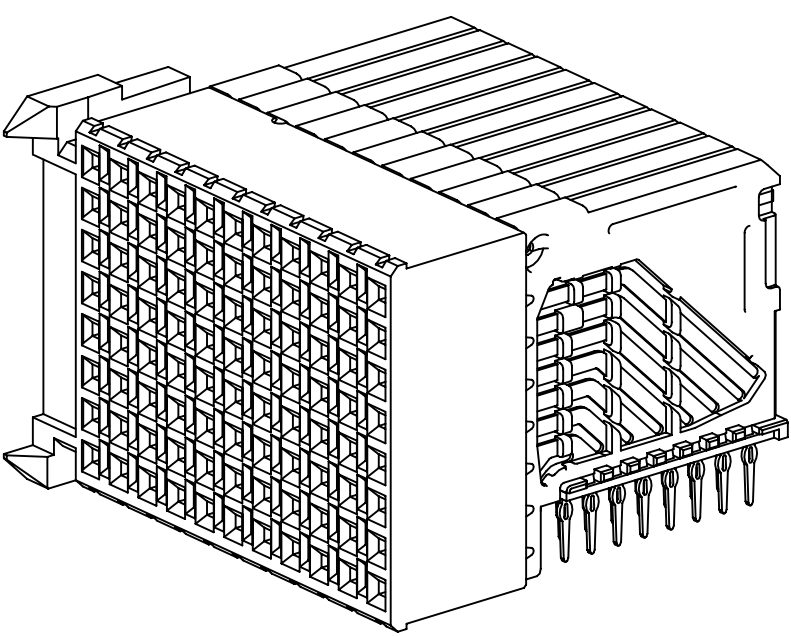
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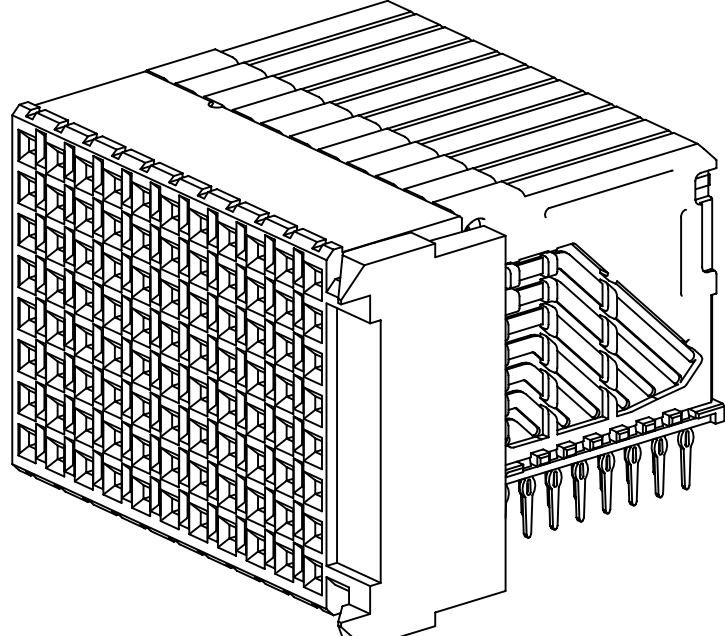
HM-S176D1-8AP1



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-XXXXXX

SOCKET POSITION
AND TYPE

PLATING:

- TG30L = .76μm [30μIN] MIN. GOLD ON CONTACT AREA, LUBRICATED
2.54μm [100μIN] MIN. TIN/LEAD ON TERMINAL AREA (RIA C2 & E3 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 & E3 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 & E3 APPLY)
1.27μm [50μIN] 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

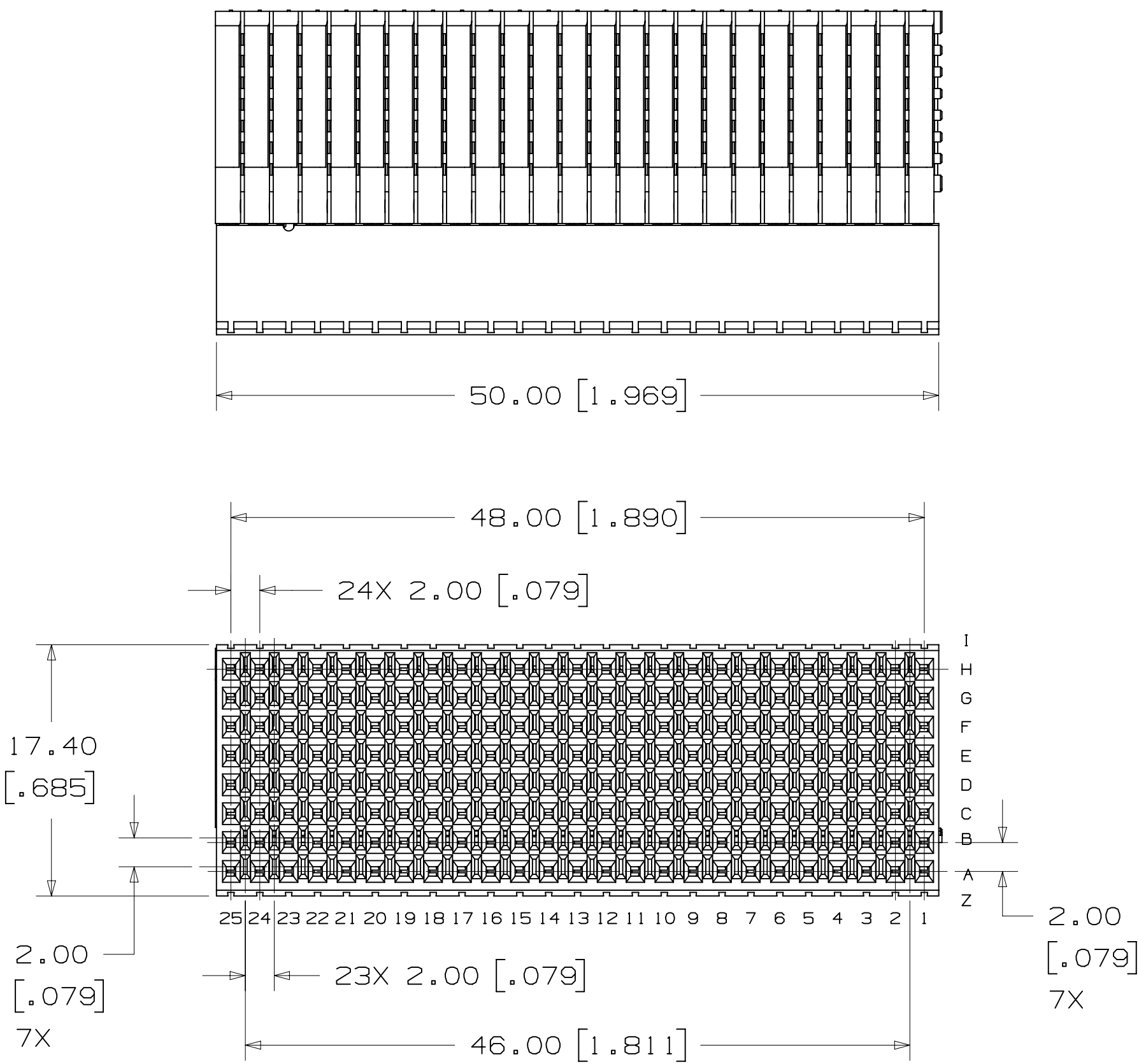
UL
UL FILE NO: E68080

DIMENSIONS: MM [INCHES]

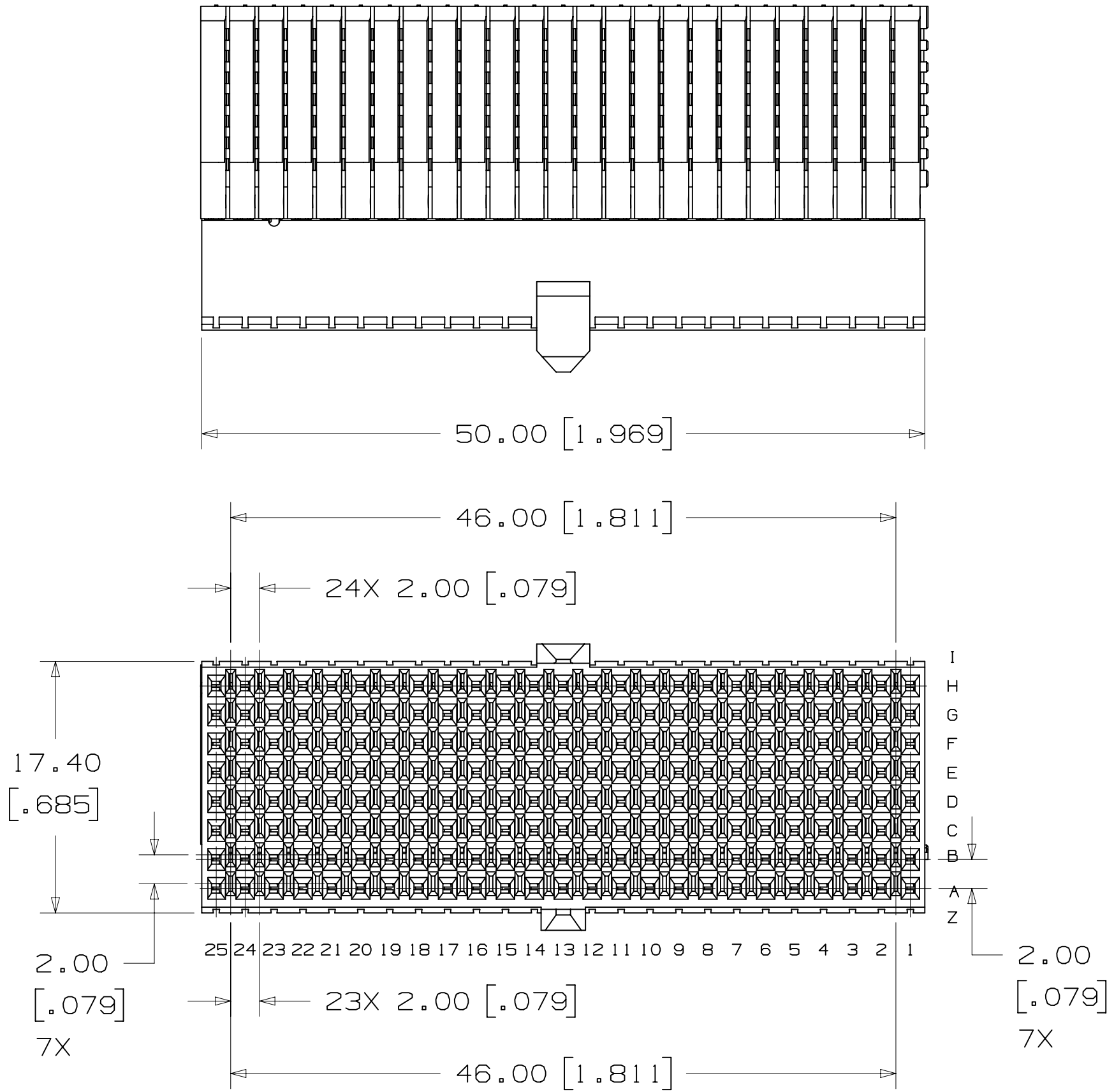
DESIGN REFERENCE	NEXT ASSEMBLY
REV. CODES	DIVISION CODE
DO NOT SCALE DRAWING	SCALE 1
THIRD ANGLE PROJECTION	INTERPRET PER ASME Y14.5 - 1994
MAX SURFACE ROUGHNESS	DEF SURFACES
MARKED ONLY	ANGLES

B	50345	OCT 07,2013	JNC	TS
A	39778	MAR 23,2012	JNC	TS
REV	ECO	ISSUE DATE AND DESCRIPTION	DRFT	CHKD
DR	CSTIGLIONE	MAR 23,2012	MFG	DATE
CHKD	DATE	APPR	DATE	REV
		T. SUNIGA	MAR 26,2012	
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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	1	OF 4

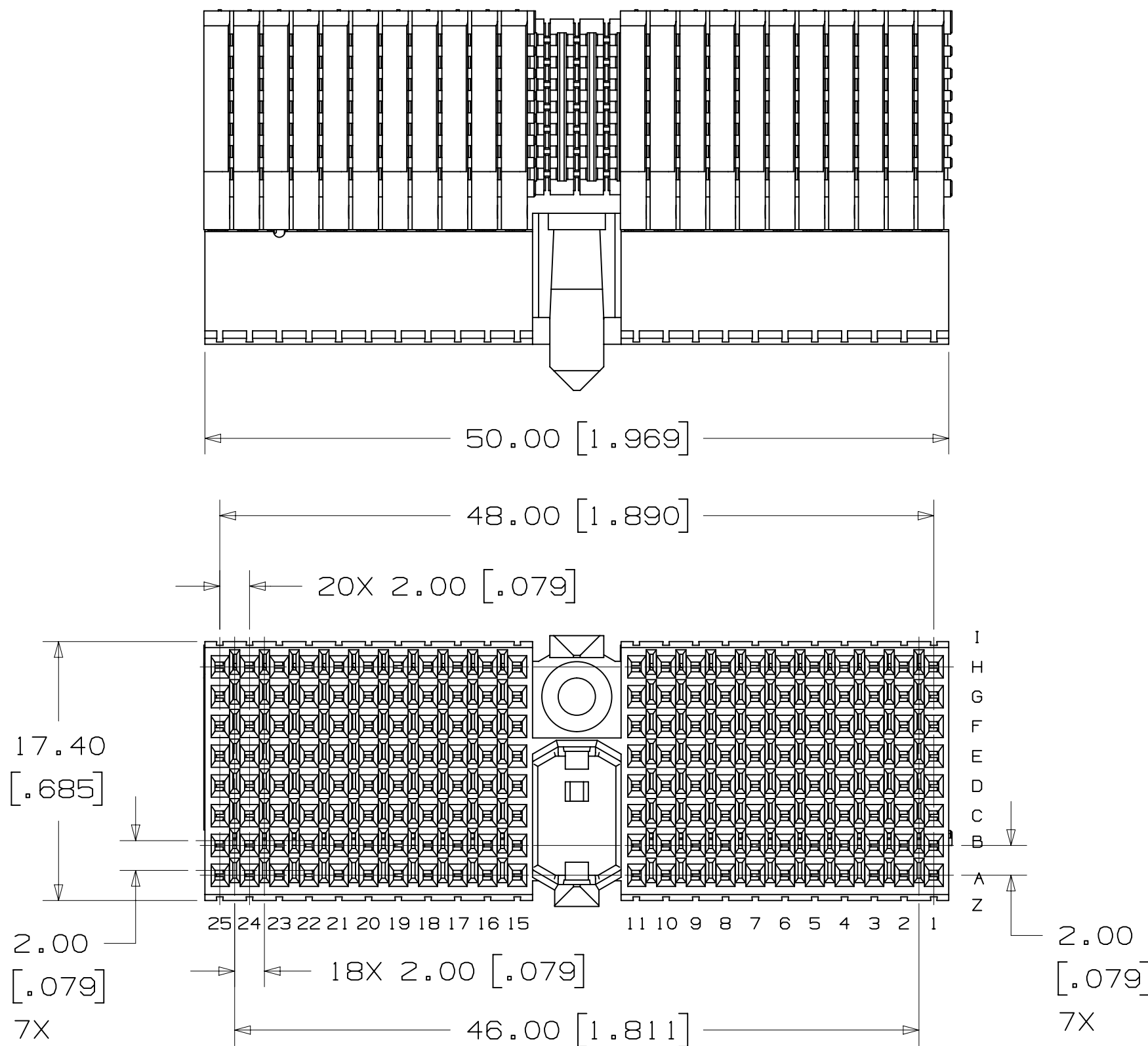
3M™ HM PRESS-FIT SOCKET, 8-ROW, HM SERIES
FOR HARD METRIC APPLICATIONS



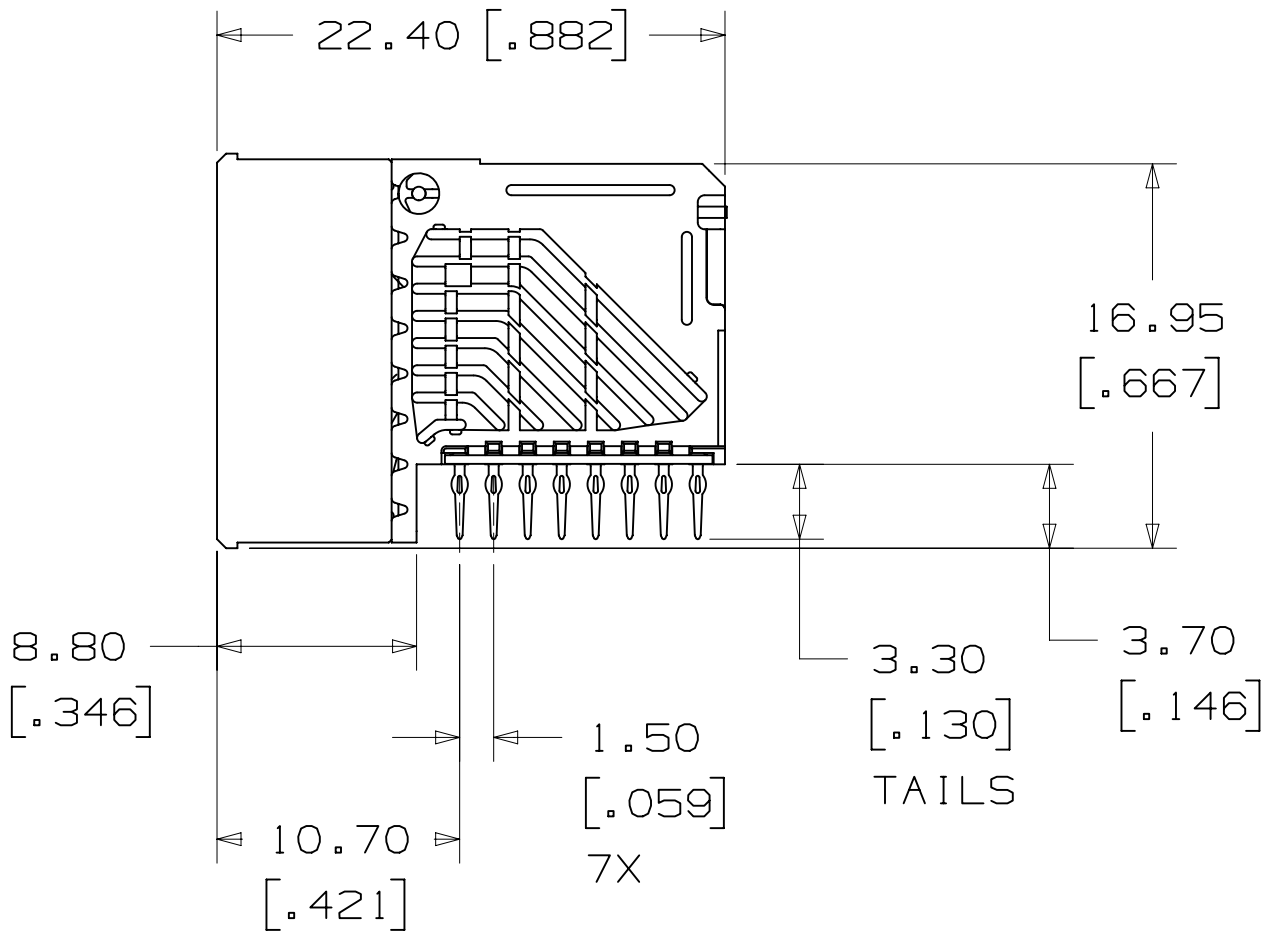
HM-S200E1-8AP1



HM-S200DE1-8AP1



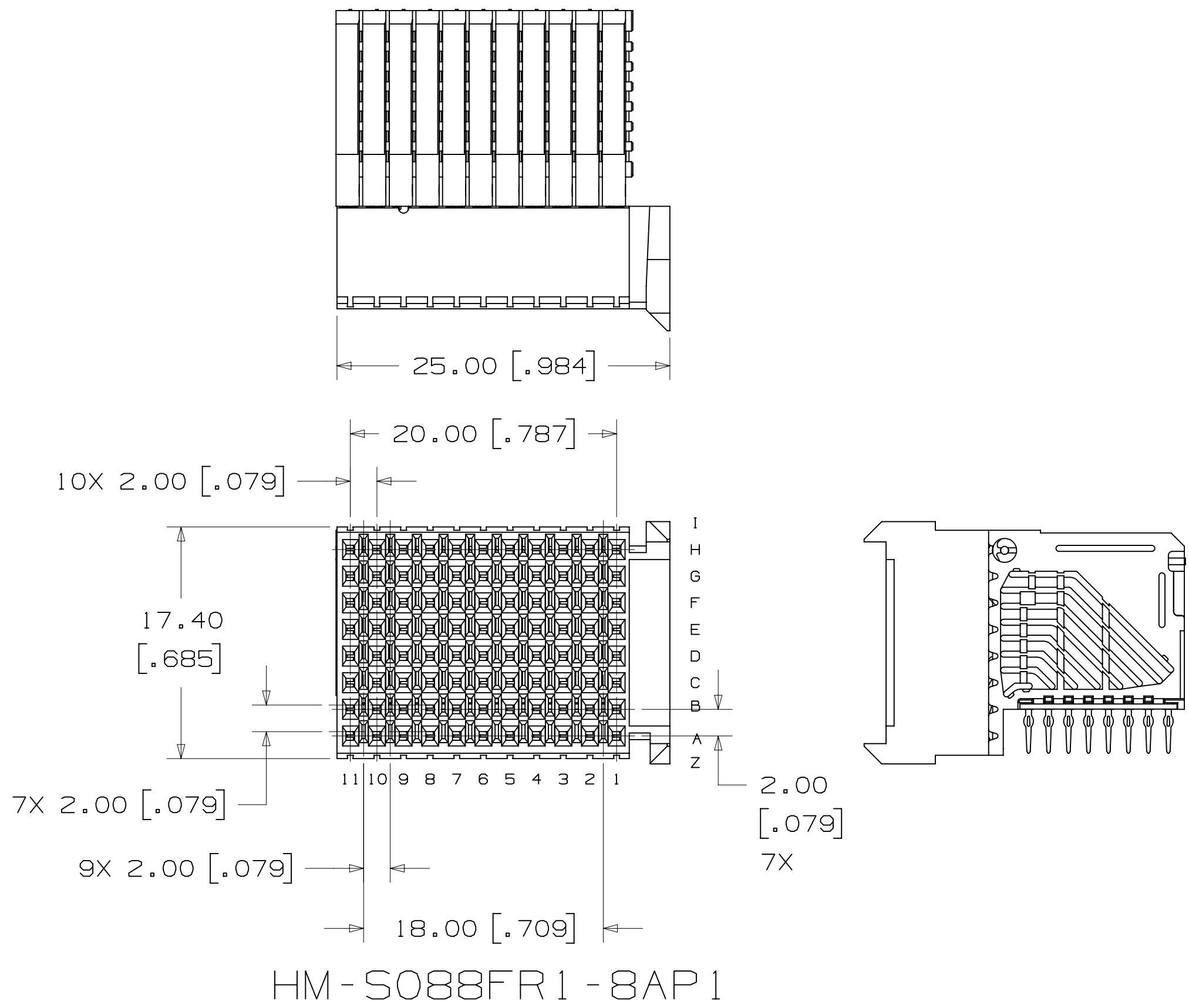
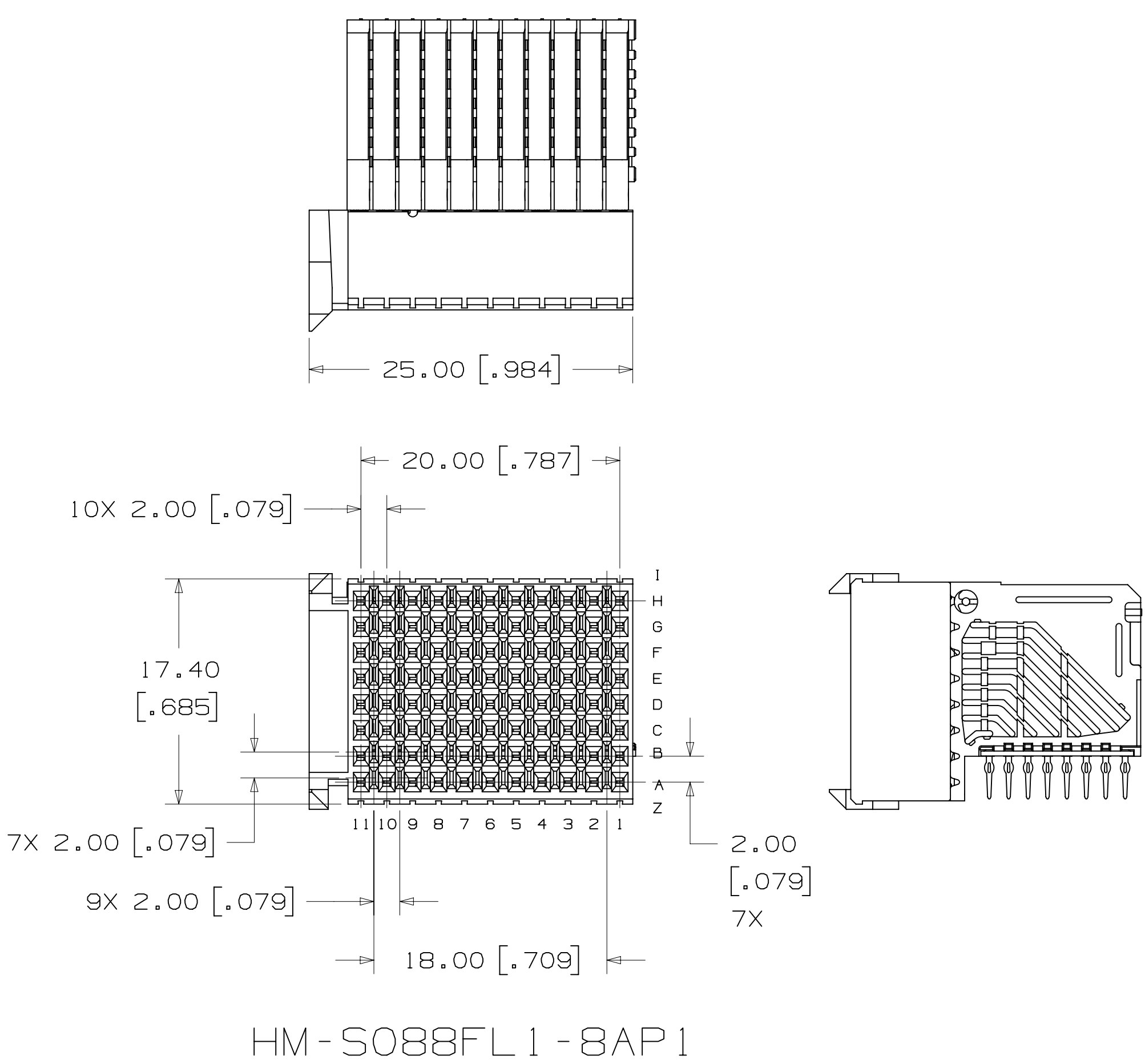
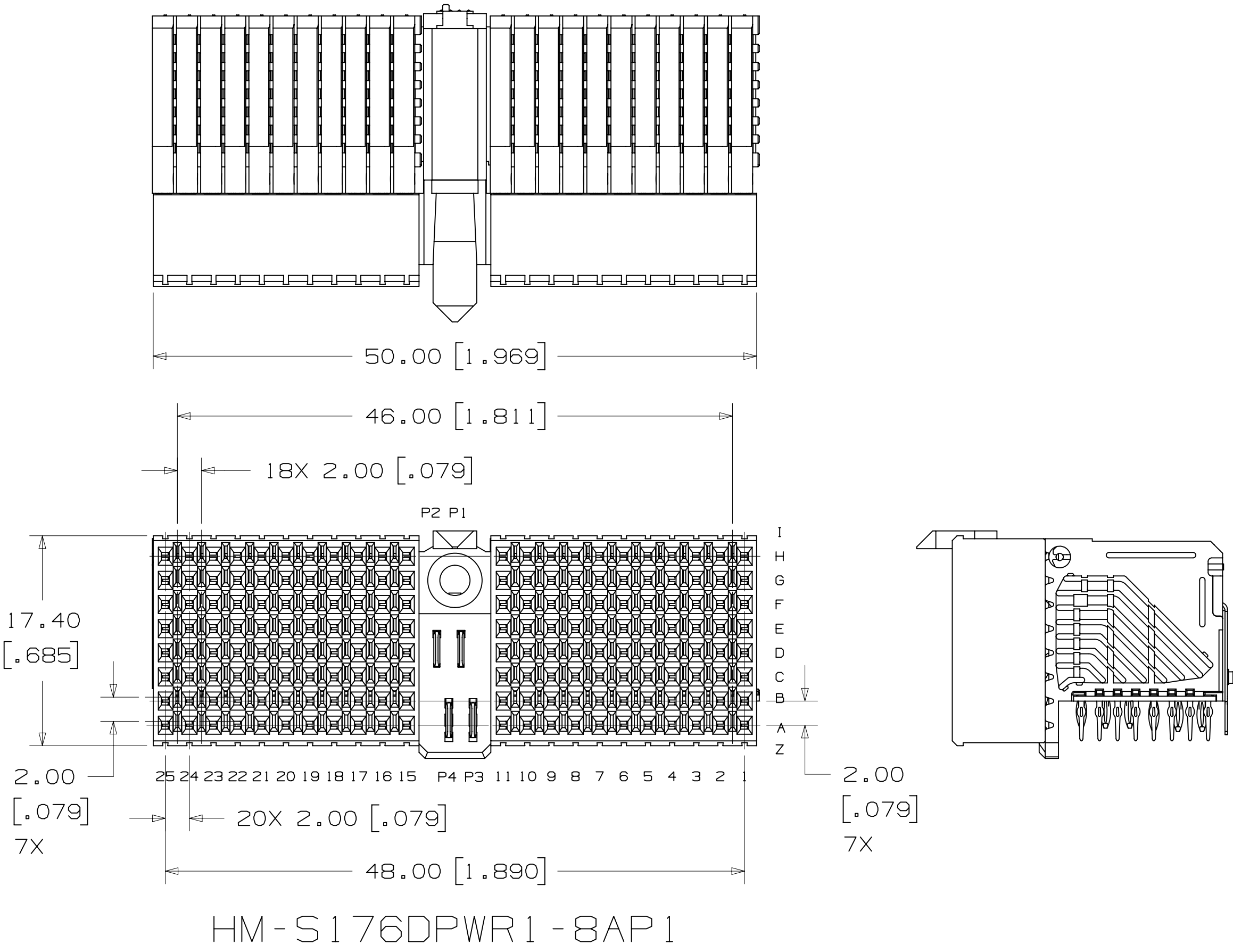
HM-S176D1-8AP1



TYPICAL SIDE VIEW
DIMENSIONS FOR THE
SOCKETS ON THIS DRAWING

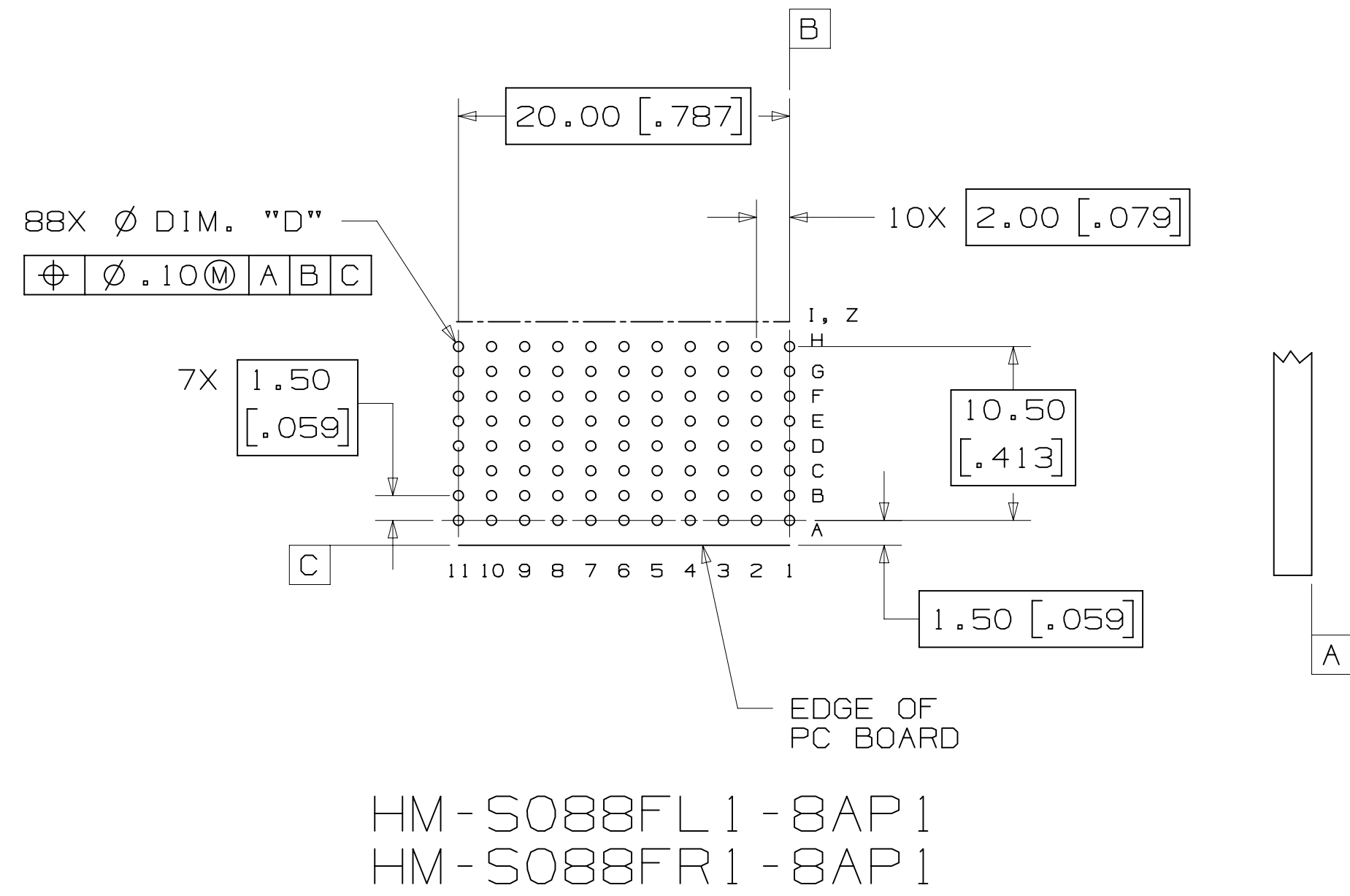
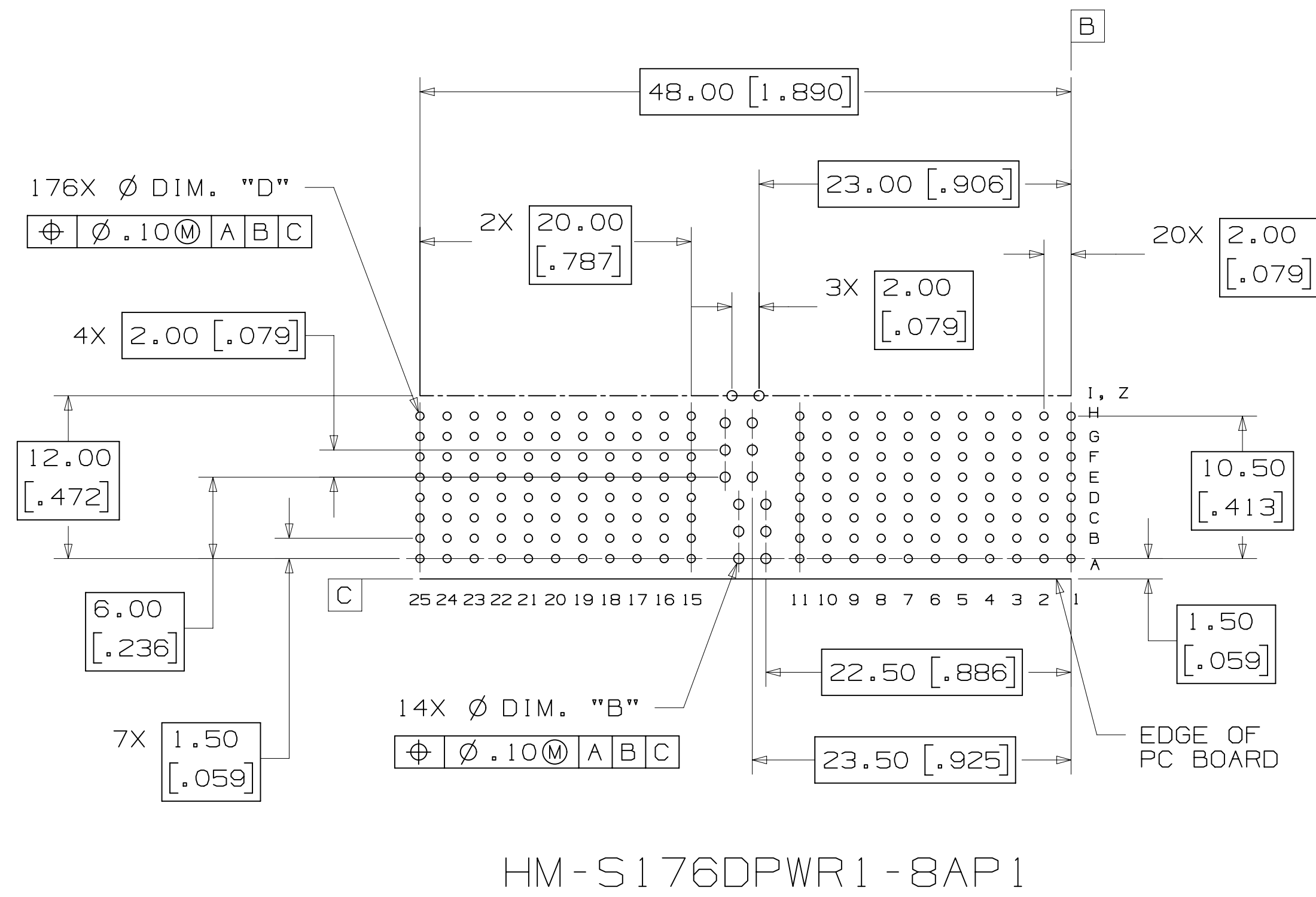
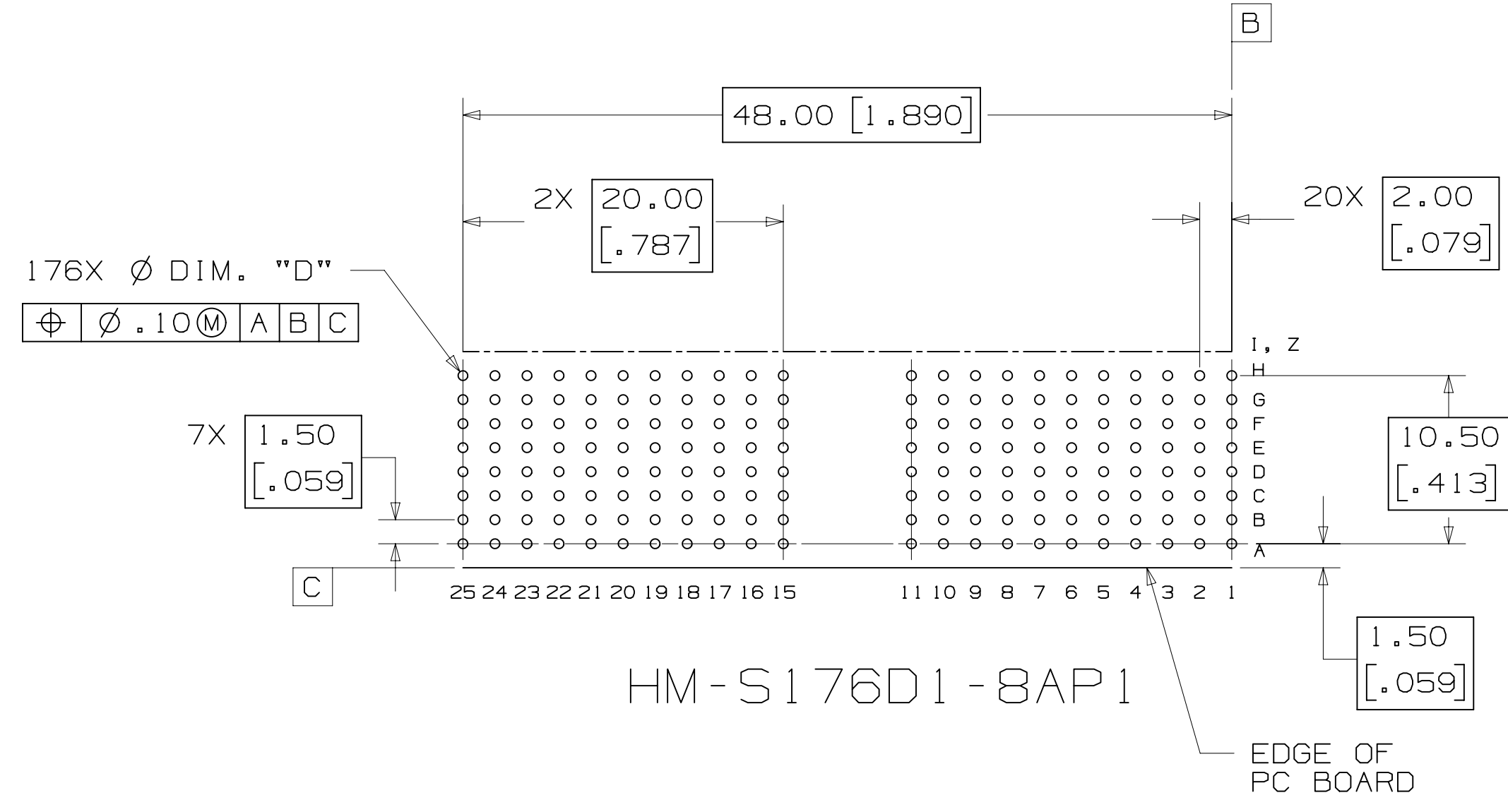
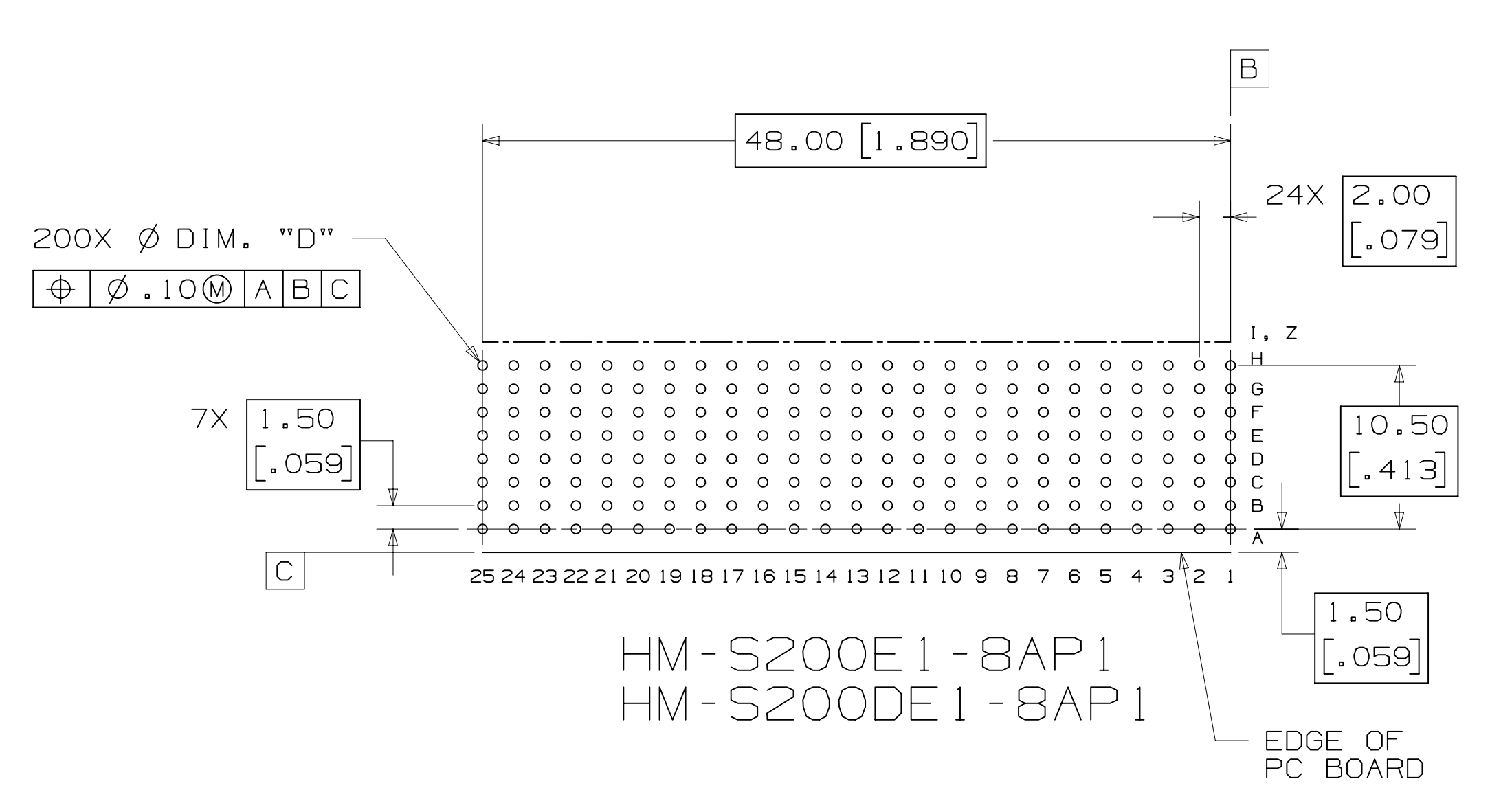
DESIGN REFERENCE	NEXT ASSEMBLY	REV	ECO	ISSUE DATE AND DESCRIPTION	DRFT	CHKD
INTERCONNECT CODES	DIVISION CODE	DR	CASTIGLIONE	DATE	DATE	DATE
DO NOT SCALE DRAWING	SCALE 3/1	TOLERANCES EXCEPT AS NOTED	INCHES .00 ± .01 .000 ± .005 .0000 ±	MILLIMETERS 0 ± .3 .00 ± .13 .000 ±	MARKED ONLY	ANGLES
THIRD ANGLE PROJECTION	INTERPRET PER ASME Y14.5 - 1994	MAX SURFACE ROUGHNESS	DEF SURFACES	DEF MARKED ONLY	DEF	DEF
MODEL	CAGE NUMBER	SIZE	DRAWING NO.	REV.	REV.	REV.
MODEL	NUMBER	D	78-5100-2516-2	B	REV.	REV.
MODEL	MODEL	MODEL	MODEL	MODEL	MODEL	MODEL

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	
ADDRESS CODES				DRPT		CASTIGLIONE		ISSUE DATE		MFG		DATE	
				CHKD				MAR 23, 2012		T. SUNIGA		MAR 26, 2012	
DIVISION		DIVISION CODE		TITLE		3M		© 3M COPYRIGHT 2012		THIS document and the information it contains are 3M property and may be reproduced or further distributed without 3M permission, or used or disclosed without the prior 3M authorized purposes. All rights reserved.			
Interconnect Solutions		ISD		3M Center St. Paul, MN 55144									
DO NOT SCALE DRAWING		SCALE 3/1		TOLERANCES EXCEPT AS NOTED									
				INCHES									
				.00 ± .01									
				.000 ± .005									
				.0000 ±									
THIRD ANGLE PROJECTION				MILLIMETERS									
				.00 ± .3									
				.00 ± .13									
				.000 ±									
				MAX SURFACE ROUGHNESS									
				MAX SURFACES									
				✓									
				MARKED ONLY									
				ANGLES ±									

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]

DESIGN REFERENCE		NEXT ASSEMBLY		REV	ECO	ISSUE DATE AND DESCRIPTION		DRFT	CHKD
KODER		KODER		CHKD	CHKD	DATE	DATE	DATE	DATE
DIVISION		DIVISION CODE		3M Center		St. Paul, MN 55144		© 3M COPYRIGHT 2012	
DO NOT SCALE DRAWING		SCALE 3/1		TOLERANCES EXCEPT AS NOTED		INCHES .00 ± .01 .000 ± .0005 .0000 ±		MILLIMETERS 0 ± .3 .00 ± .13 .000 ±	
THIRD ANGLE PROJECTION		INTERPRET PER ASME Y14.5 - 1994		MAX SURFACE ROUGHNESS		SURFACES		MARKED ONLY	
TITLE		HM PRESS-FIT 8-ROW SOCKET CONNECTORS, HM SERIES		CAGE NUMBER		DRAWING NO.		REV.	
MODEL		DET		YES		NO		SHT 4 OF 4	