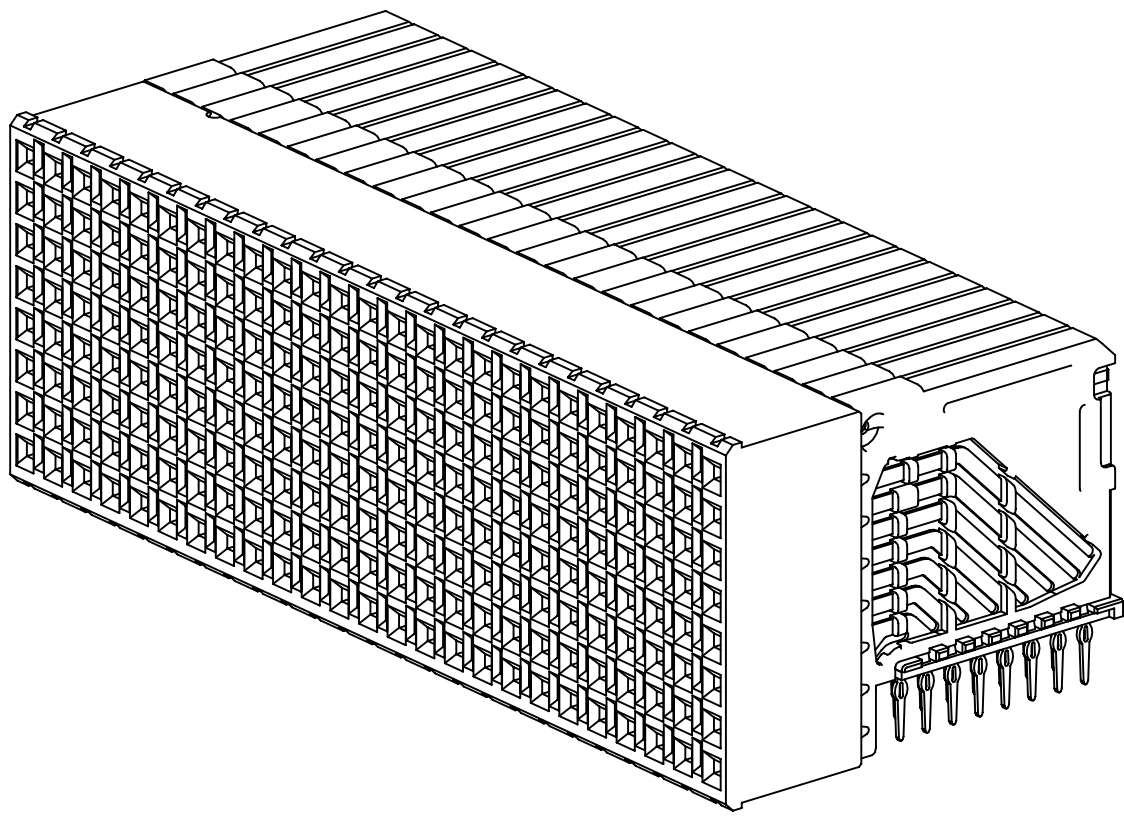


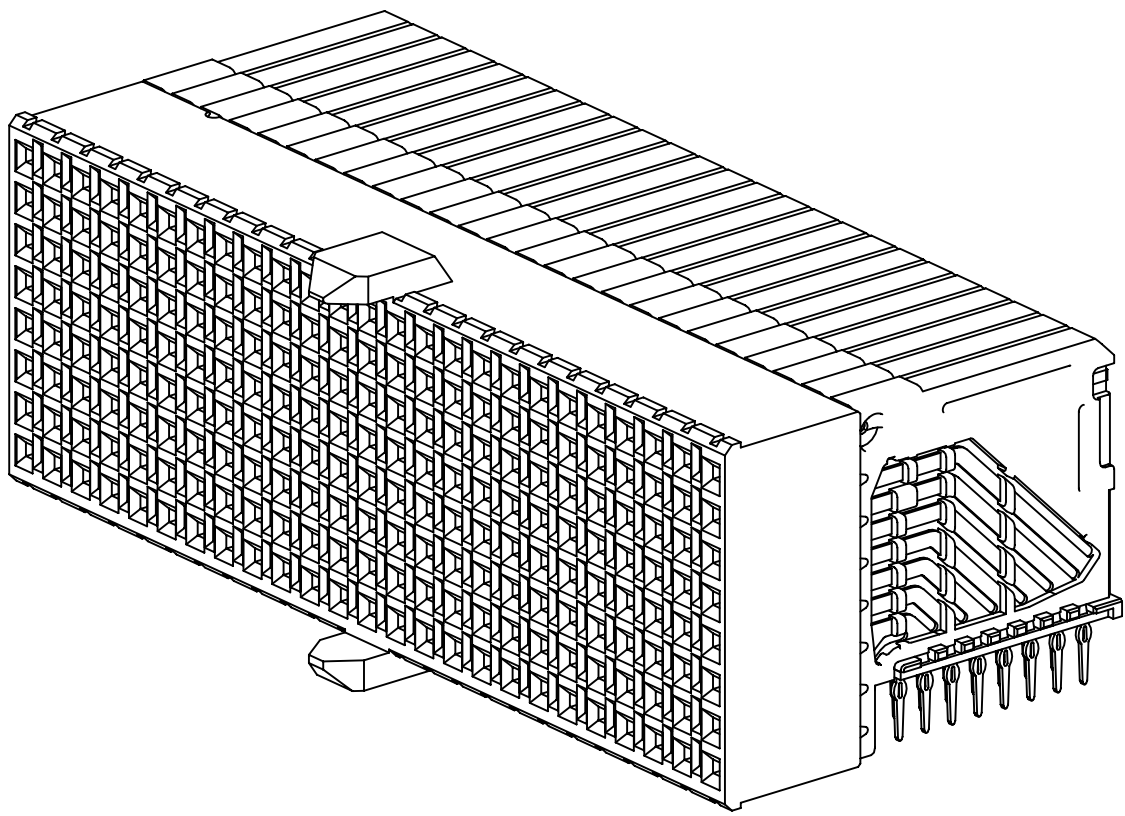
3M™ HM PRESS-FIT SOCKET, 8-ROW, HM SERIES
FOR HARD METRIC APPLICATIONS

- * 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.

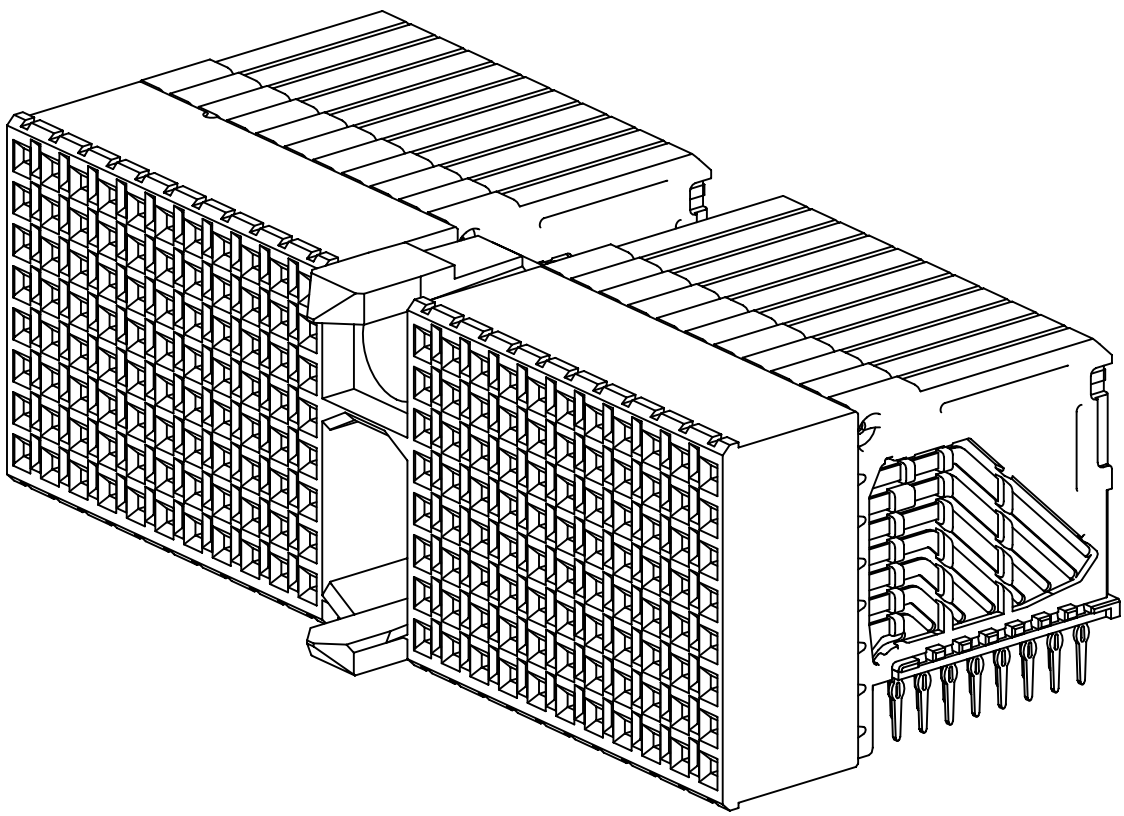
- NOTES
1. MATERIAL:
PLASTIC: HIGH TEMP LCP,
UL94V-0
CONTACTS: COPPER ALLOY.
2. REGULATORY INFORMATION:
ROHS COMPLIANT. SEE THE REGULATORY
INFORMATION APPENDIX (RIA) IN THE
"ROHS COMPLIANCE" SECTION OF
WWW.3MCONNECTORS.COM FOR COMPLIANCE
INFORMATION (RIA E1 & C1 APPLY)
3. IN THE EVENT OF CONFLICT
BETWEEN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



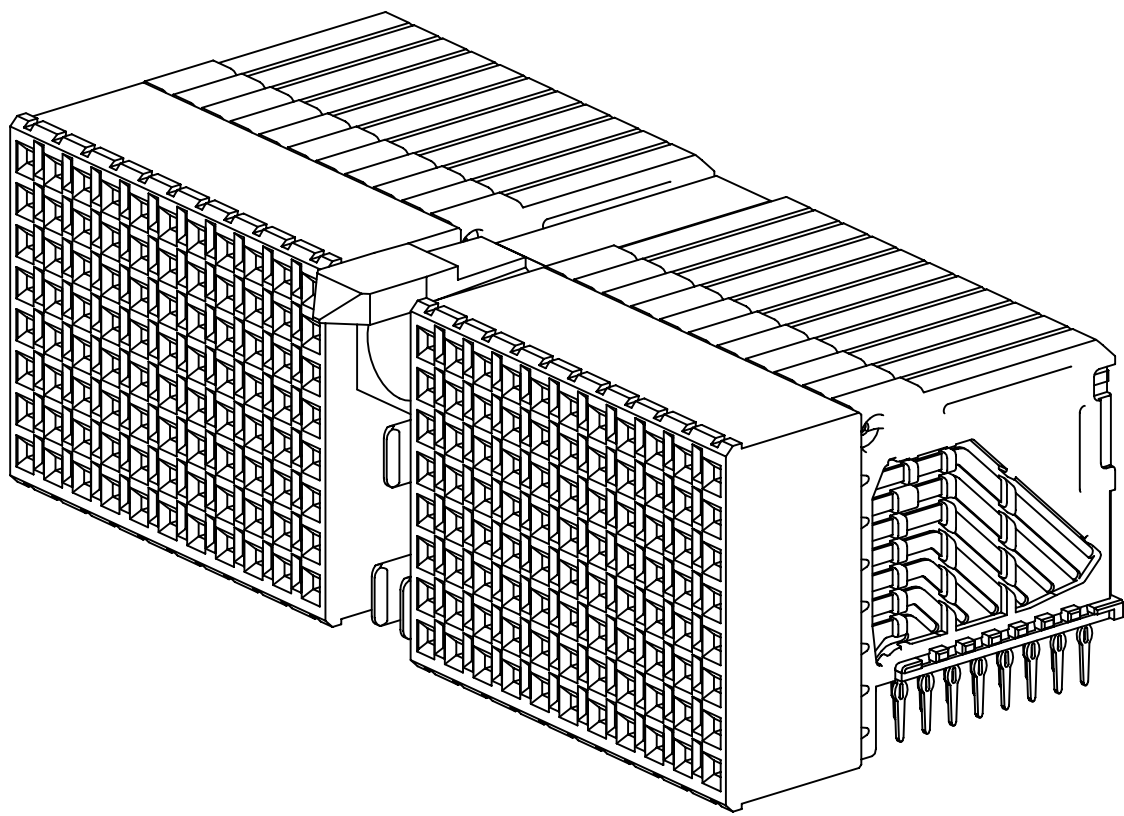
HM-S200E1-8AP1



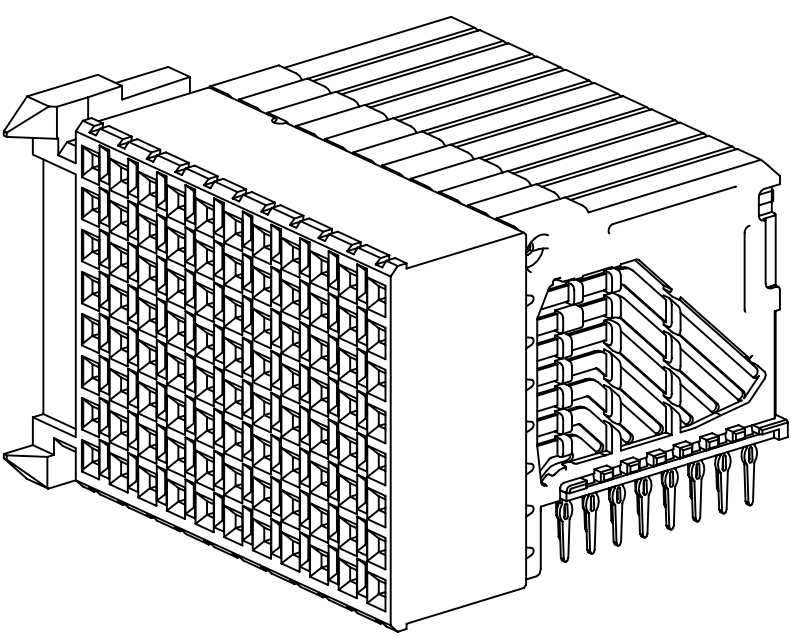
HM-S200DE1-8AP1



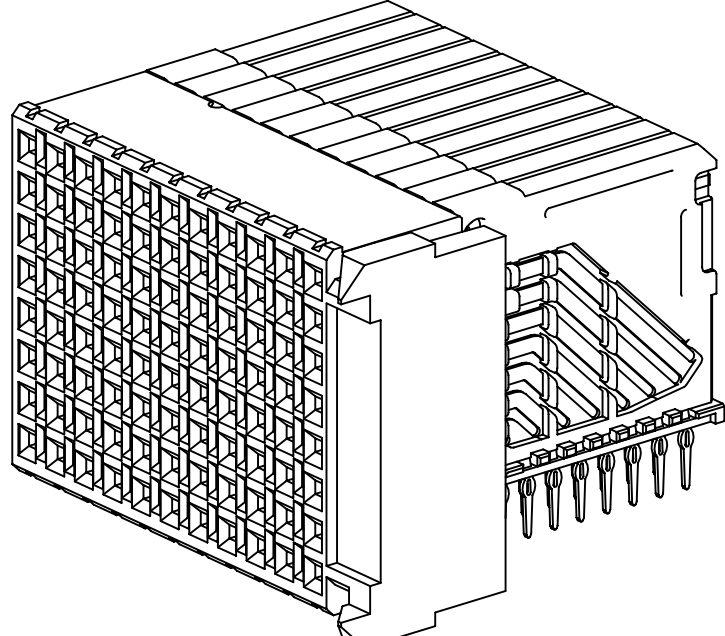
HM-S176D1-8AP1



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 & 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.

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

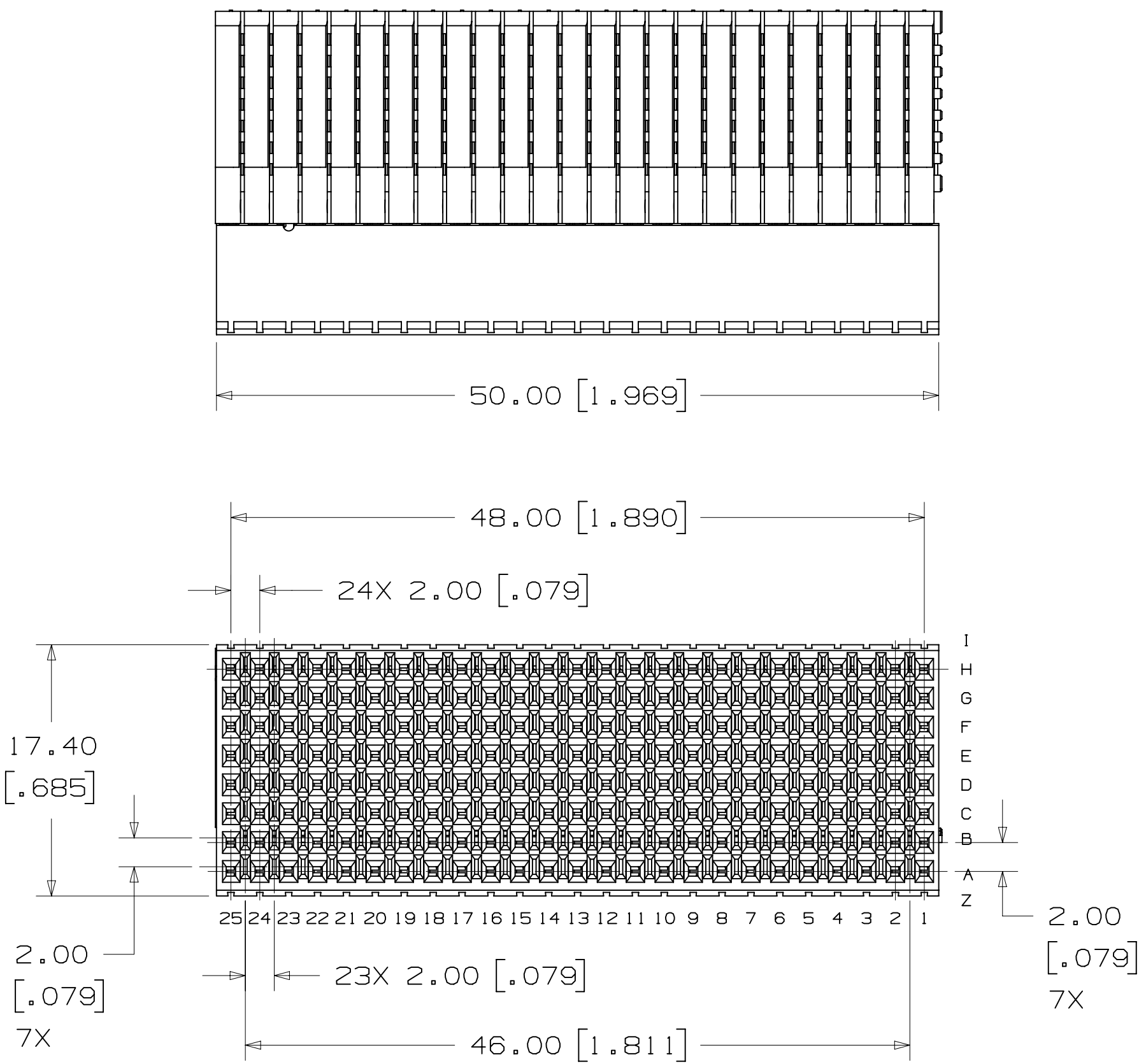
3M IS A TRADEMARK OF 3M COMPANY.
FOR TECHNICAL, SALES OR ORDERING
INFORMATION CALL 800-225-5373

UL
UL FILE NO: E68080

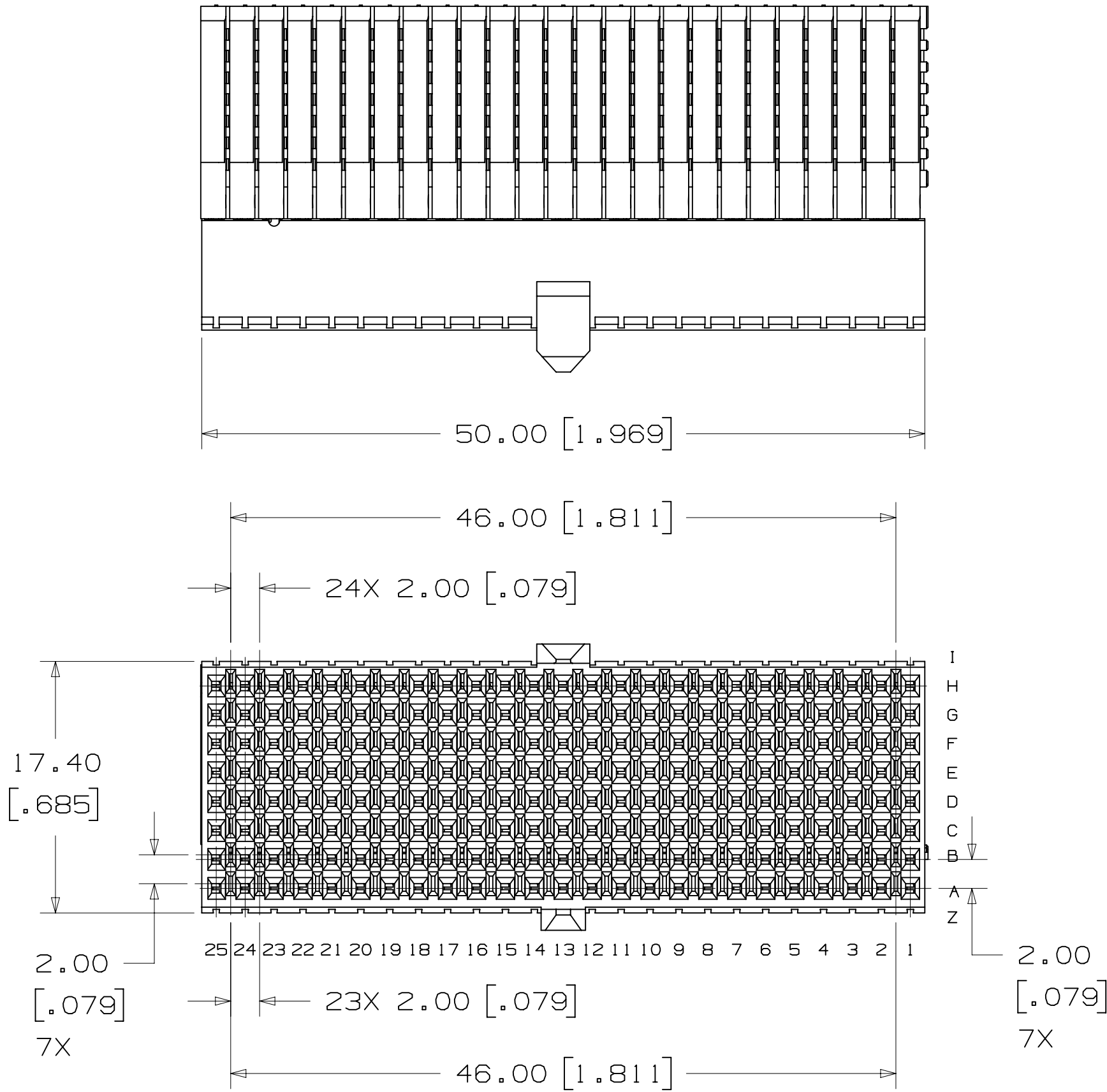
DIMENSIONS: MM [INCHES]

DESIGN REFERENCE		NEXT ASSEMBLY		REV	ECO	ISSUE DATE AND DESCRIPTION		DRFT	CHKD
DIST. REF. CODE		DIST. REF. CODE		REV	ECO	ISSUE DATE AND DESCRIPTION		DRFT	CHKD
DIVISION		DIVISION CODE		REV	ECO	ISSUE DATE AND DESCRIPTION		DRFT	CHKD
Interconnect Solutions		ISD		REV	ECO	ISSUE DATE AND DESCRIPTION		DRFT	CHKD
DO NOT SCALE DRAWING		SCALE 3 1		REV	ECO	ISSUE DATE AND DESCRIPTION		DRFT	CHKD
THIRD ANGLE PROJECTION		TOLERANCES EXCEPT AS NOTED		REV	ECO	ISSUE DATE AND DESCRIPTION		DRFT	CHKD
INTERPRET PER ASME Y14.5 - 1994		TOLERANCES EXCEPT AS NOTED		REV	ECO	ISSUE DATE AND DESCRIPTION		DRFT	CHKD
MAX SURFACE ROUGHNESS		TOLERANCES EXCEPT AS NOTED		REV	ECO	ISSUE DATE AND DESCRIPTION		DRFT	CHKD
SURFACES		TOLERANCES EXCEPT AS NOTED		REV	ECO	ISSUE DATE AND DESCRIPTION		DRFT	CHKD
MARKED ONLY		TOLERANCES EXCEPT AS NOTED		REV	ECO	ISSUE DATE AND DESCRIPTION		DRFT	CHKD
ANGLES		TOLERANCES EXCEPT AS NOTED		REV	ECO	ISSUE DATE AND DESCRIPTION		DRFT	CHKD
TITLE		3M		REV	ECO	ISSUE DATE AND DESCRIPTION		DRFT	CHKD
CAGE NUMBER		D		REV	ECO	ISSUE DATE AND DESCRIPTION		DRFT	CHKD
DRAWING NO.		78-5100-2516-2		REV	ECO	ISSUE DATE AND DESCRIPTION		DRFT	CHKD
MODEL		DET		REV	ECO	ISSUE DATE AND DESCRIPTION		DRFT	CHKD
LISTS		YES		REV	ECO	ISSUE DATE AND DESCRIPTION		DRFT	CHKD
SHT		1		REV	ECO	ISSUE DATE AND DESCRIPTION		DRFT	CHKD
OF		4		REV	ECO	ISSUE DATE AND DESCRIPTION		DRFT	CHKD

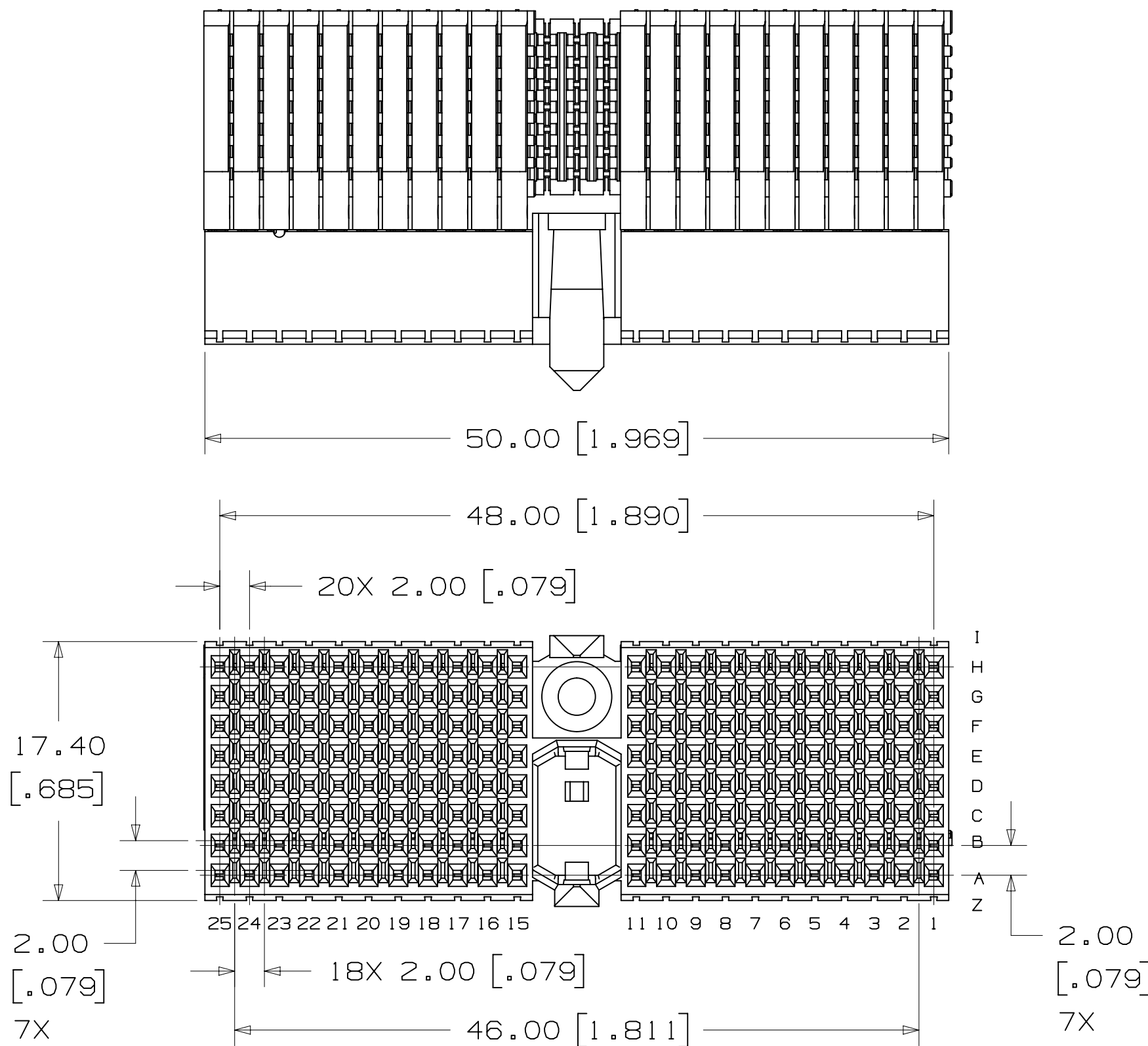
3M™ HM PRESS-FIT SOCKET, 8-ROW, HM SERIES
FOR HARD METRIC APPLICATIONS



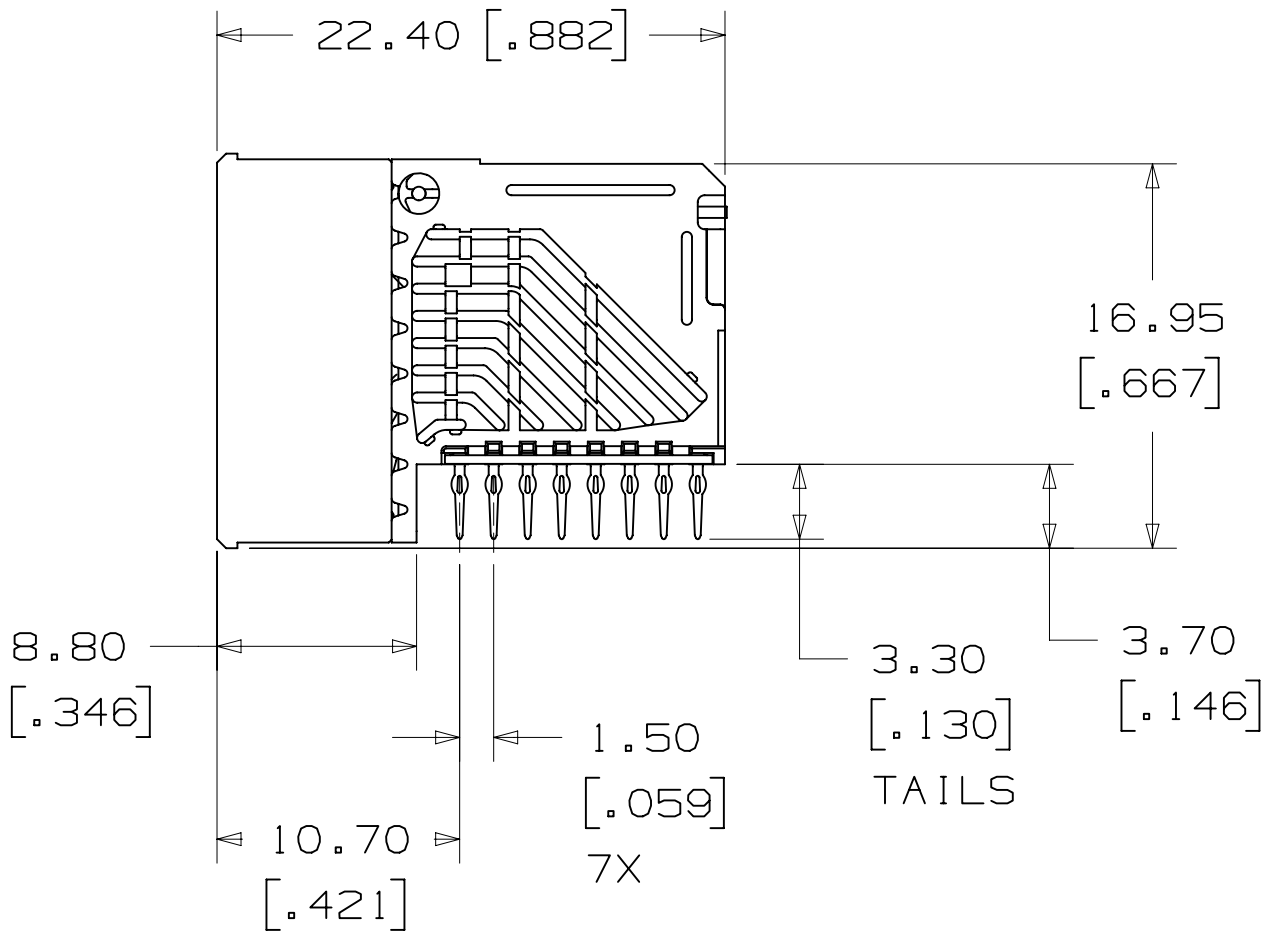
HM-S200E1-8AP1



HM-S200DE1-8AP1



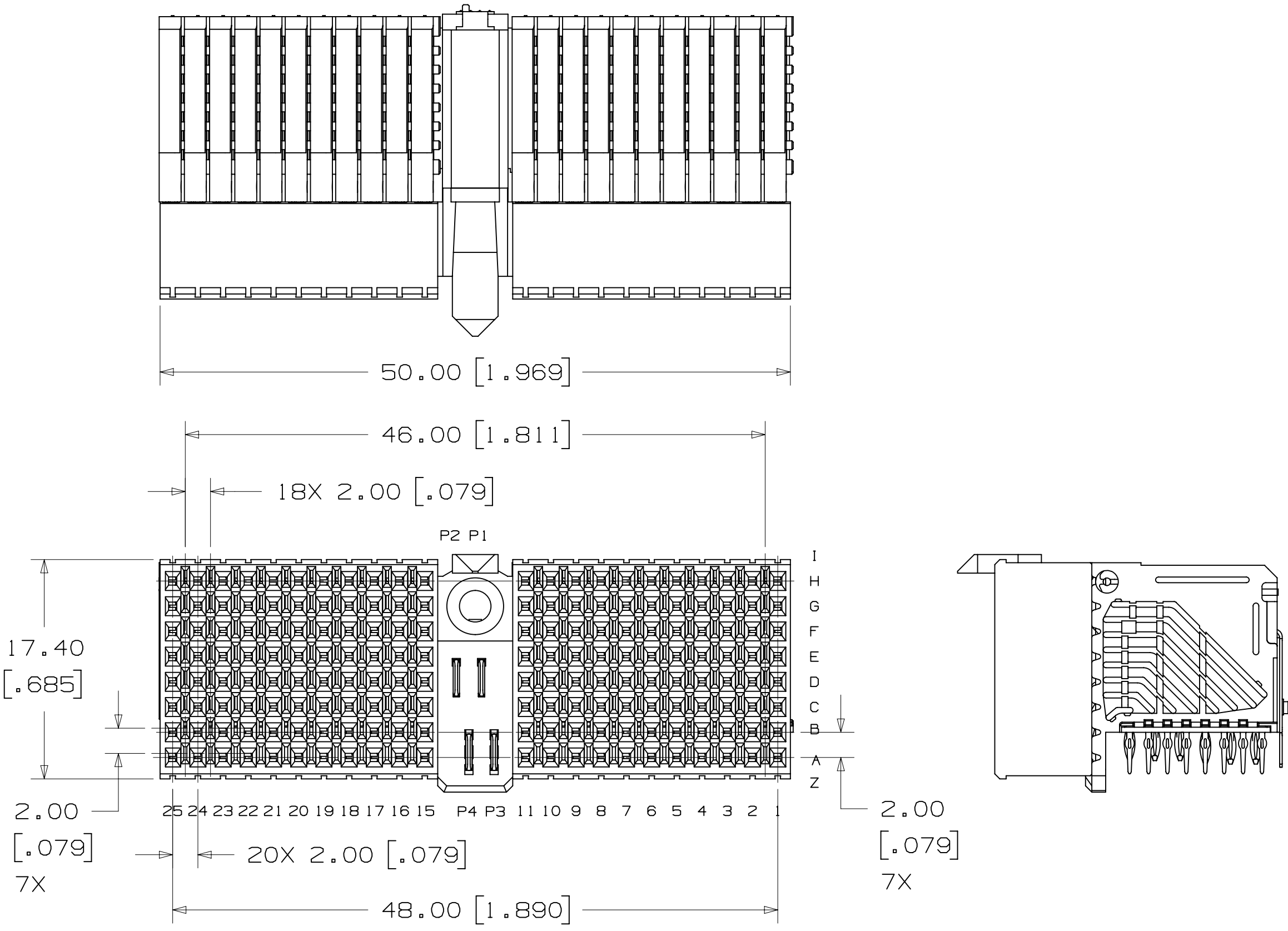
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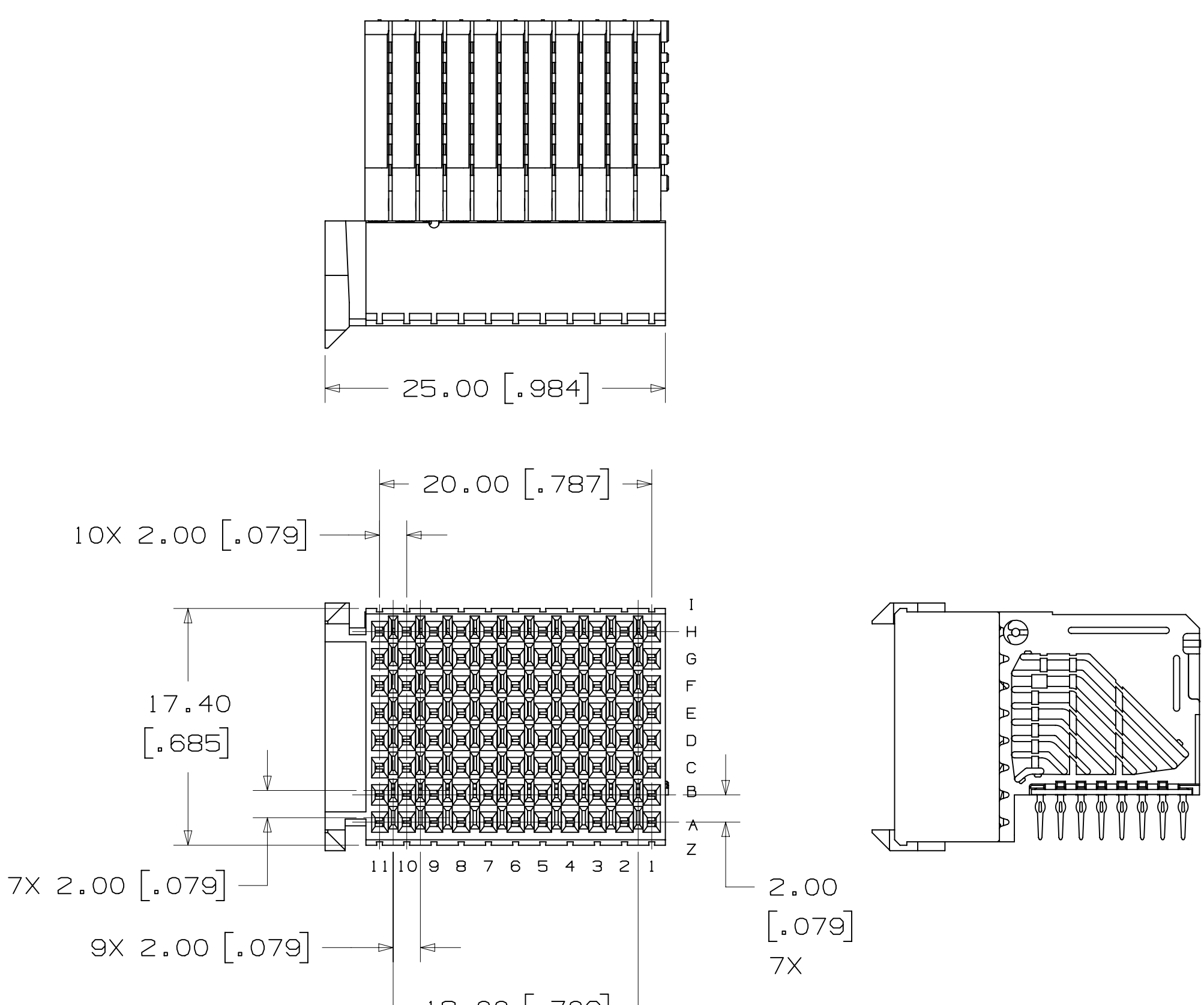
TYPICAL SIDE VIEW
DIMENSIONS FOR THE
SOCKETS ON THIS DRAWING

DESIGN REFERENCE		NEXT ASSEMBLY		A 39778		MAR 23,2012		JNC TS	
REV		ECO		ISSUE DATE AND DESCRIPTION		DRFT		CHKD	
DISTRIBUTION CODES		DISTRIBUTION CODES		DISTRIBUTION CODES		DISTRIBUTION CODES		DISTRIBUTION CODES	
DIVISION		DIVISION CODE		DIVISION CODE		DIVISION CODE		DIVISION CODE	
Interconnect Solutions		ISD		ISD		ISD		ISD	
DO NOT SCALE DRAWING		SCALE 3/1		TOLERANCES EXCEPT AS NOTED		TOLERANCES EXCEPT AS NOTED		TOLERANCES EXCEPT AS NOTED	
THIRD ANGLE PROJECTION		INTERPRET PER ASME Y14.5 - 1994		INCHES		MILLIMETERS		INCHES	
MAX SURFACE ROUGHNESS		SURFACES		MARKED ONLY		MARKED ONLY		MARKED ONLY	
CAGE NUMBER		SIZE		DRAWING NO.		REV.		REV.	
D		78-5100-2516-2		A		A		A	
MODEL		LISTS		YES		NO		SHT 2 OF 4	

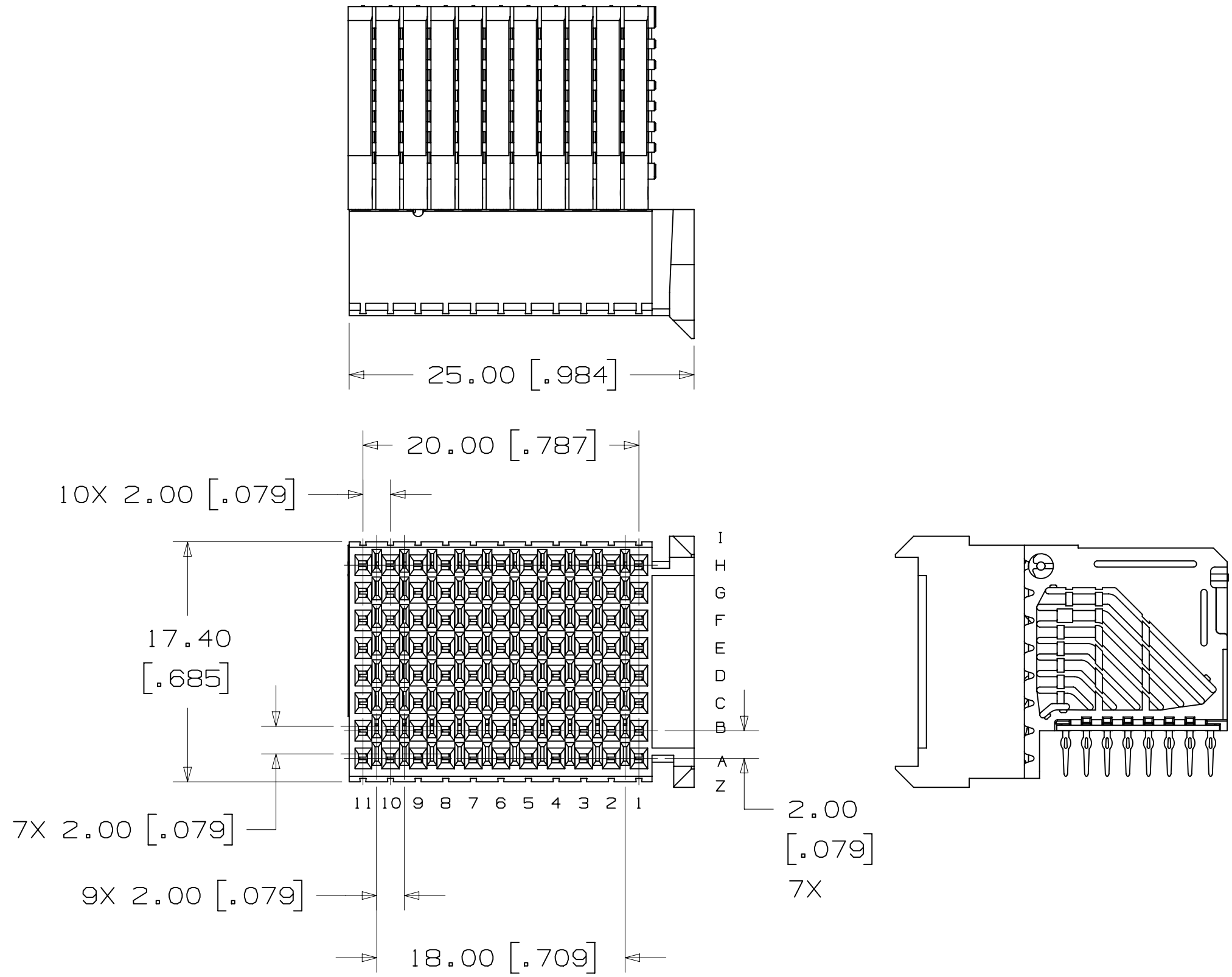
3M™ HM PRESS-FIT SOCKET, 8-ROW, HM SERIES
FOR HARD METRIC APPLICATIONS



HM-S176DPWR1-8AP1



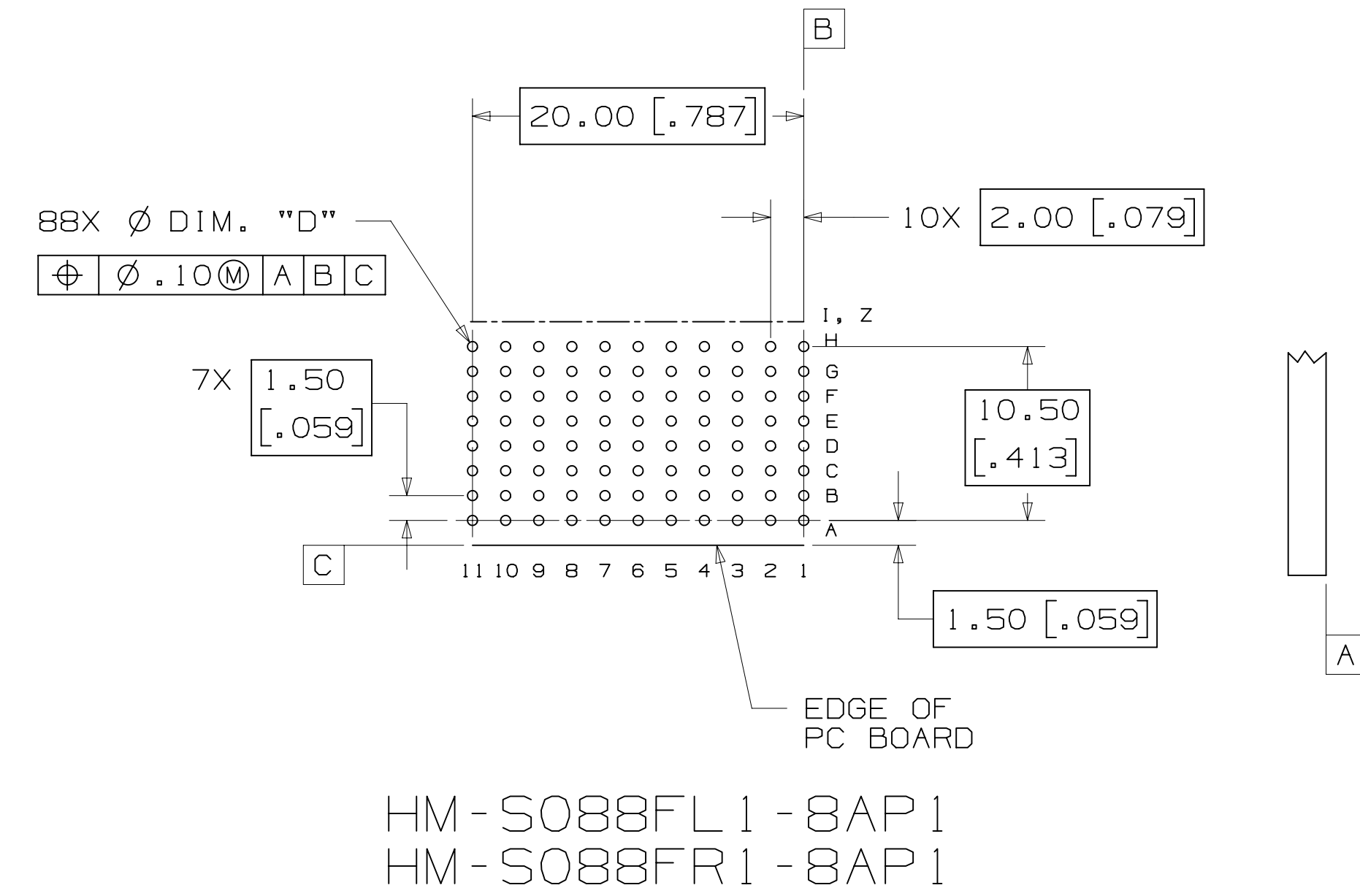
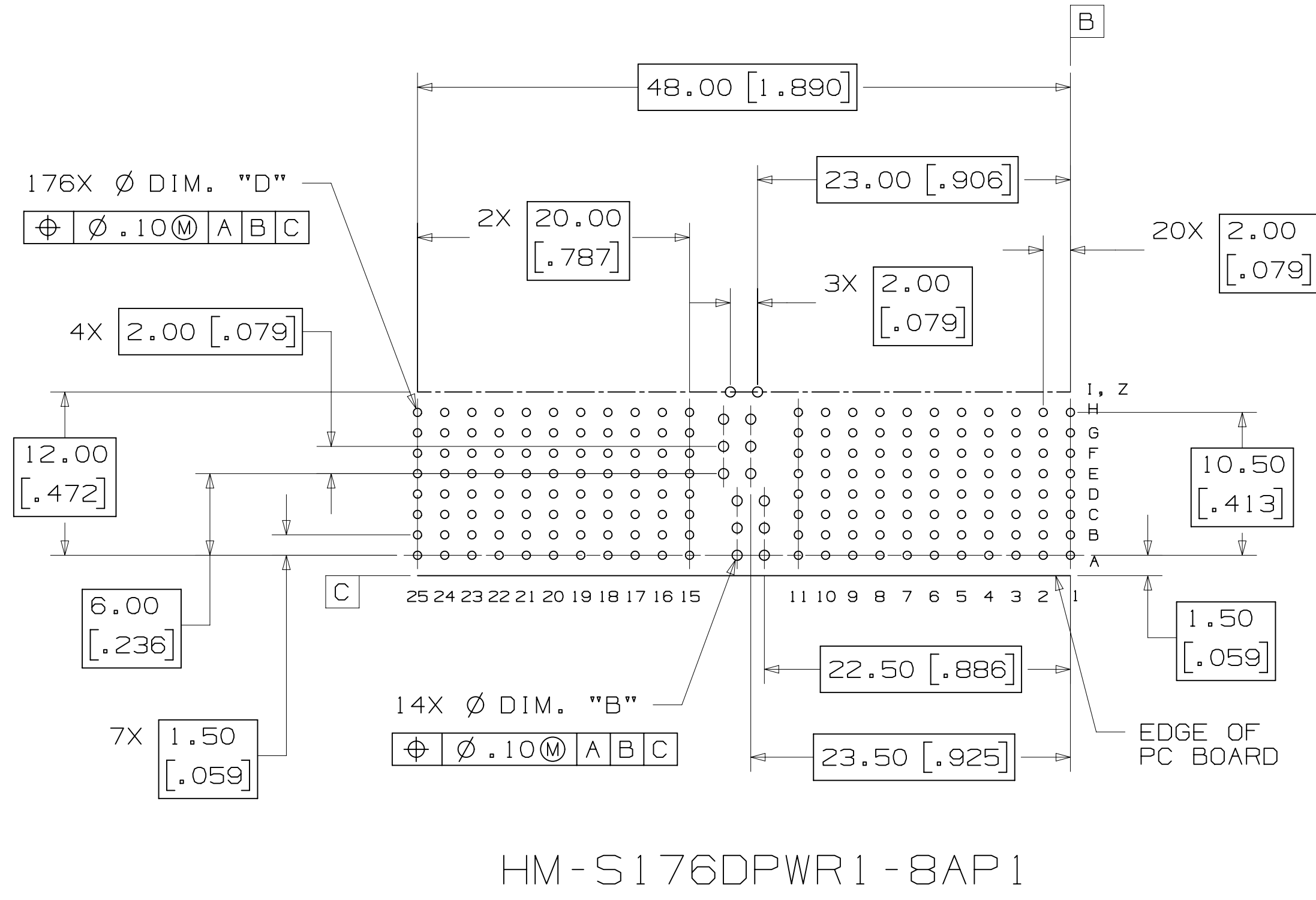
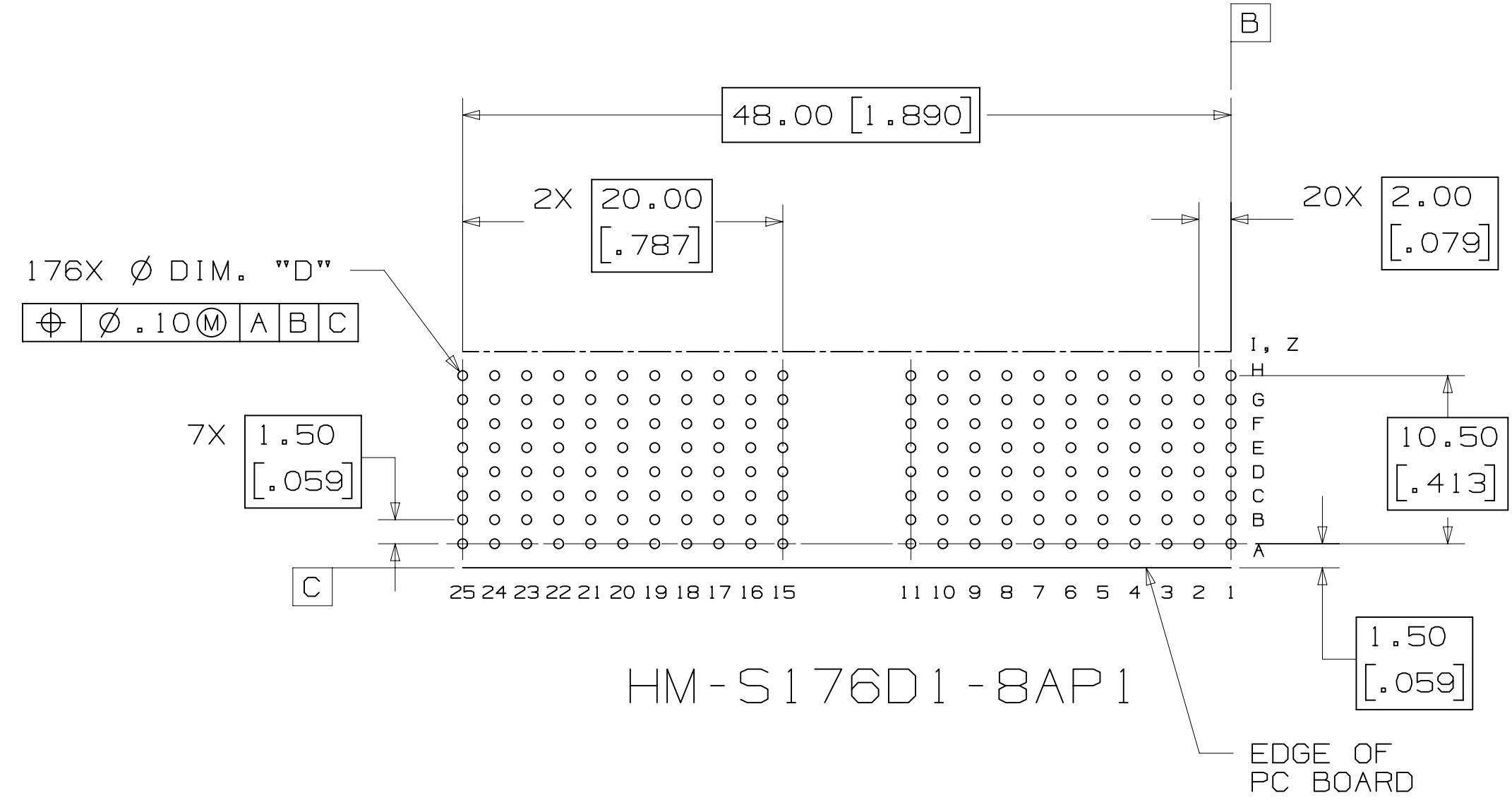
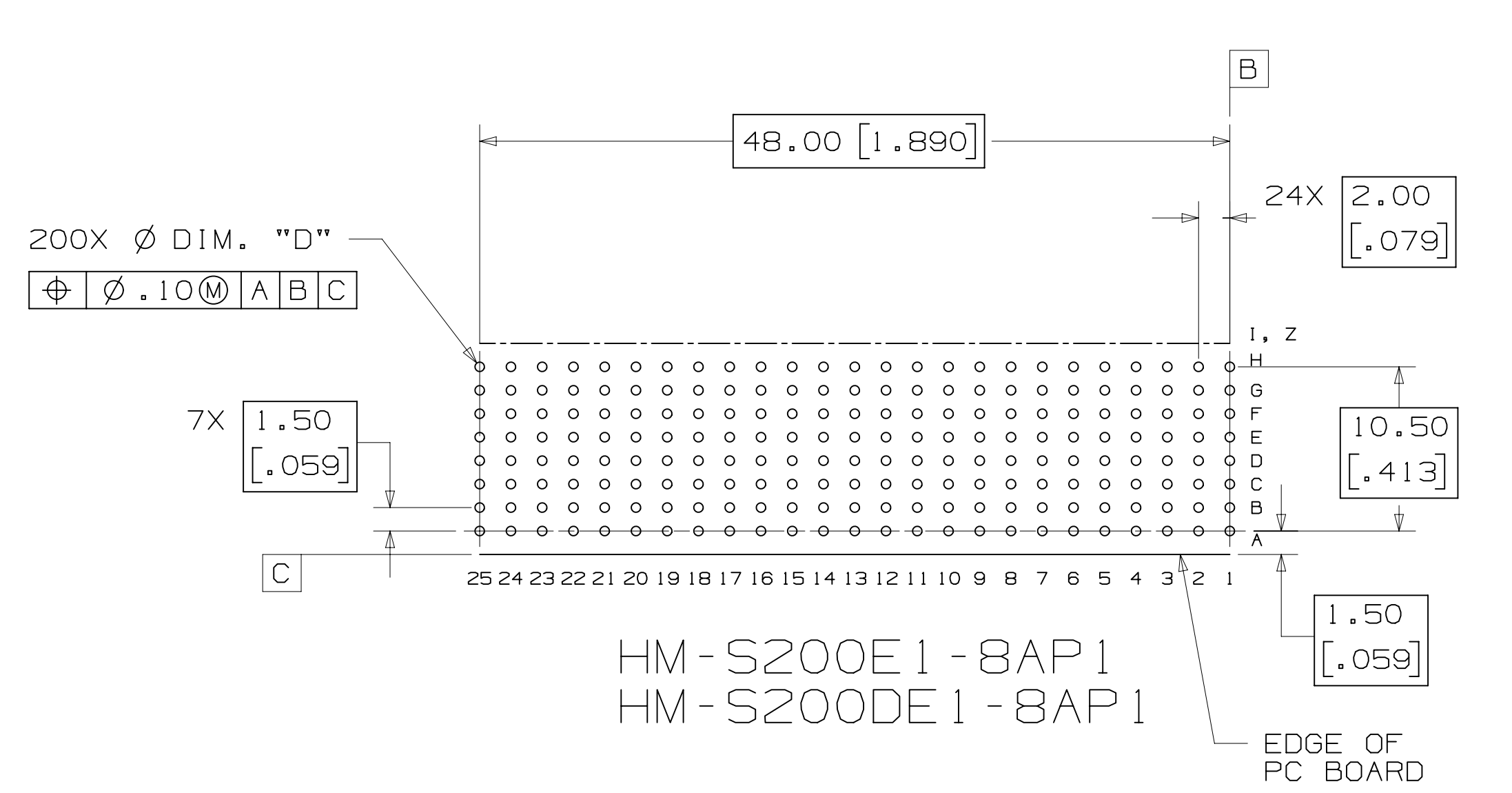
HM-S088FL1-8AP1



HM-S088FR1-8AP1

DESIGN REFERENCE		NEXT ASSEMBLY		A 39778		MAR 23,2012		JNC TS	
REV		ECO		ISSUE DATE AND DESCRIPTION		DRFT		CHKD	
DIVISION		SCALE		TOLERANCES EXCEPT AS NOTED		3M		© 3M COPYRIGHT 2012	
DO NOT SCALE DRAWING		THIRD ANGLE PROJECTION		INTERPRET PER ASME Y14.5 - 1994		HM PRESS-FIT 8-ROW SOCKET CONNECTORS, HM SERIES		CAGE NUMBER	
MAX SURFACE ROUGHNESS		MARKED ONLY		MODEL		D 78-5100-2516-2		REV. A	
DIST. BY		DATE		MFG		DATE		DATE	
CASTIGLIONE		MAR 23,2012		T. SUNIGA		MAR 26,2012		MAR 26,2012	
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.		CAGE NUMBER		DRAWING NO.		REV.	
D 78-5100-2516-2		A		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]

DESIGN REFERENCE		NEXT ASSEMBLY		A 39778		MAR 23,2012		JNC TS	
REV		ECO		ISSUE DATE AND DESCRIPTION		DRFT		CHKD	
CAG		TIGLIONE		MAR 23,2012		MFG		DATE	
CHKD		DATE		APPR		T. SUNIGA		DATE	
DIVISION		DIVISION CODE		3M Center		St. Paul, MN 55144		© 3M COPYRIGHT 2012	
Interconnect Solutions		ISD		3M		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.		TITLE	
DO NOT SCALE DRAWING		SCALE 3 1		TOLERANCES EXCEPT AS NOTED		HM PRESS-FIT 8-ROW SOCKET CONNECTORS, HM SERIES		CAGE NUMBER	
THIRD ANGLE PROJECTION		INCHES .00 ± .01 .000 ± .0005 .0000 ±		MILLIMETERS 0 ± .3 .00 ± .13 .000 ±		DRAWING NO.		REV.	
MAX SURFACE ROUGHNESS		SURFACES		MODEL		DET		SHT 4 OF 4	
MARKED ONLY		ANGLES		CAGE NUMBER		D 78-5100-2516-2		A	