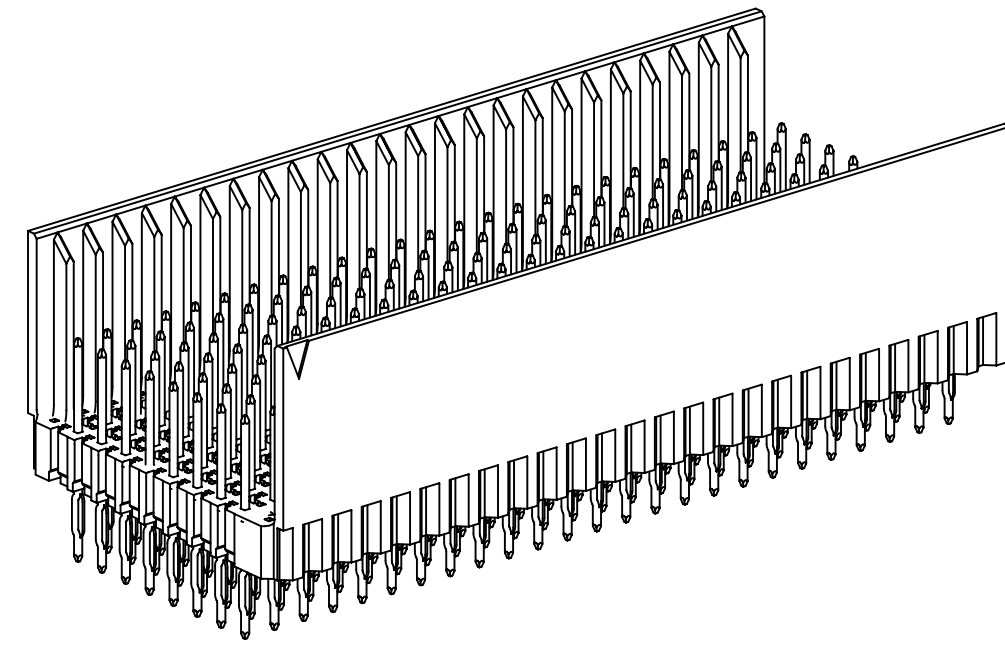
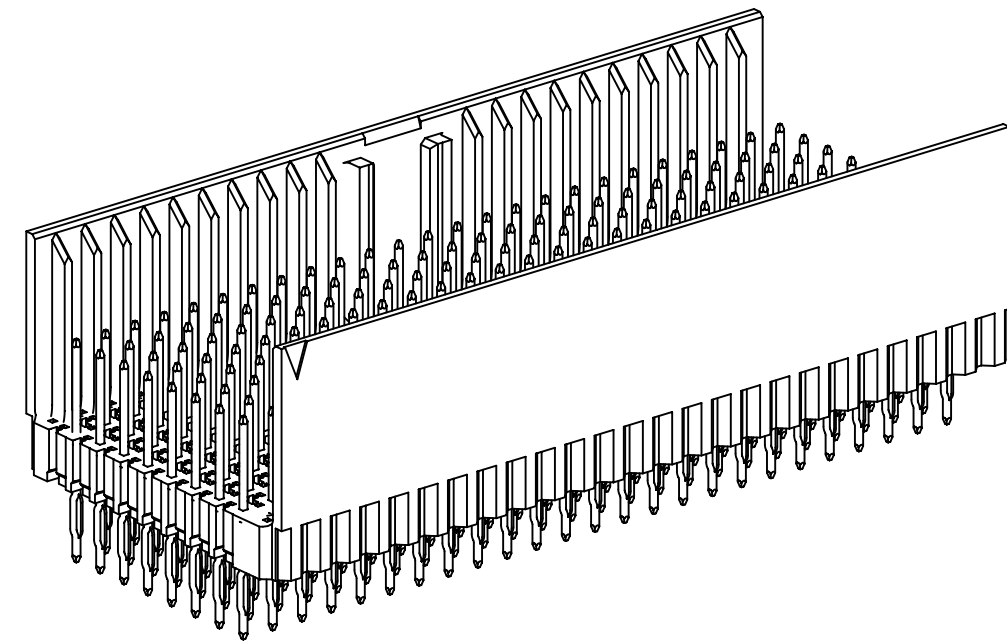


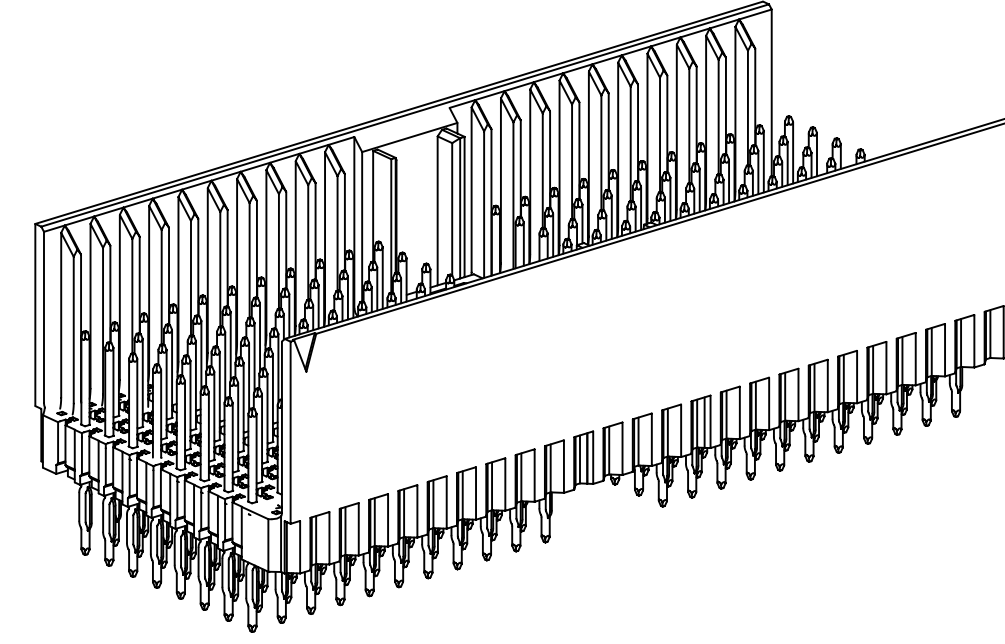
3M™ HM PRESS-FIT HEADER, 8-ROW, HM SERIES
FOR HARD METRIC APPLICATIONS



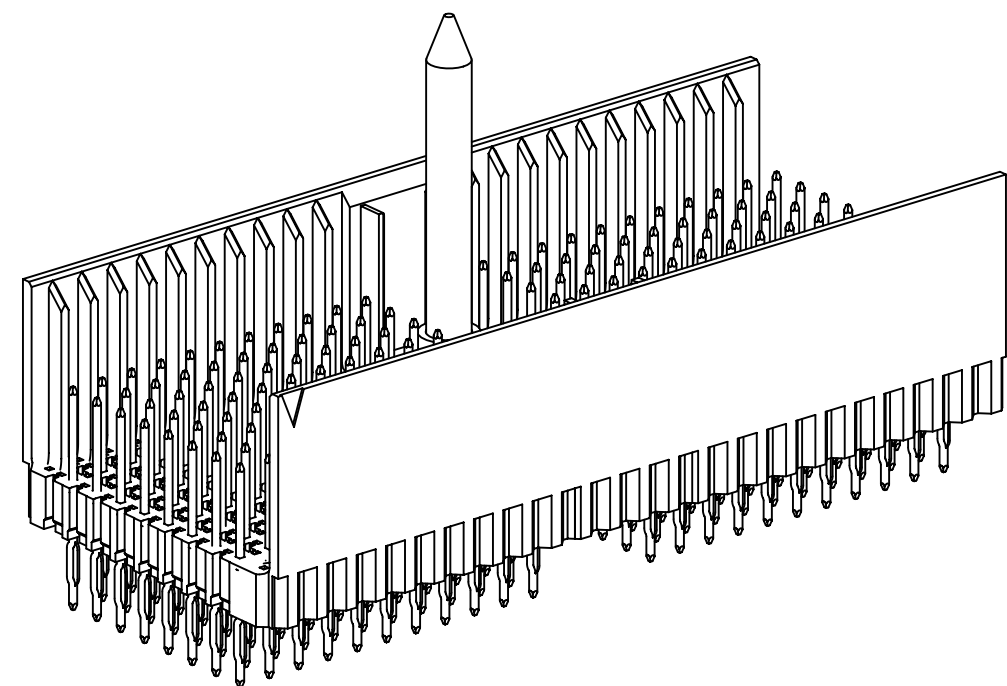
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HM-H244E2-8BX1



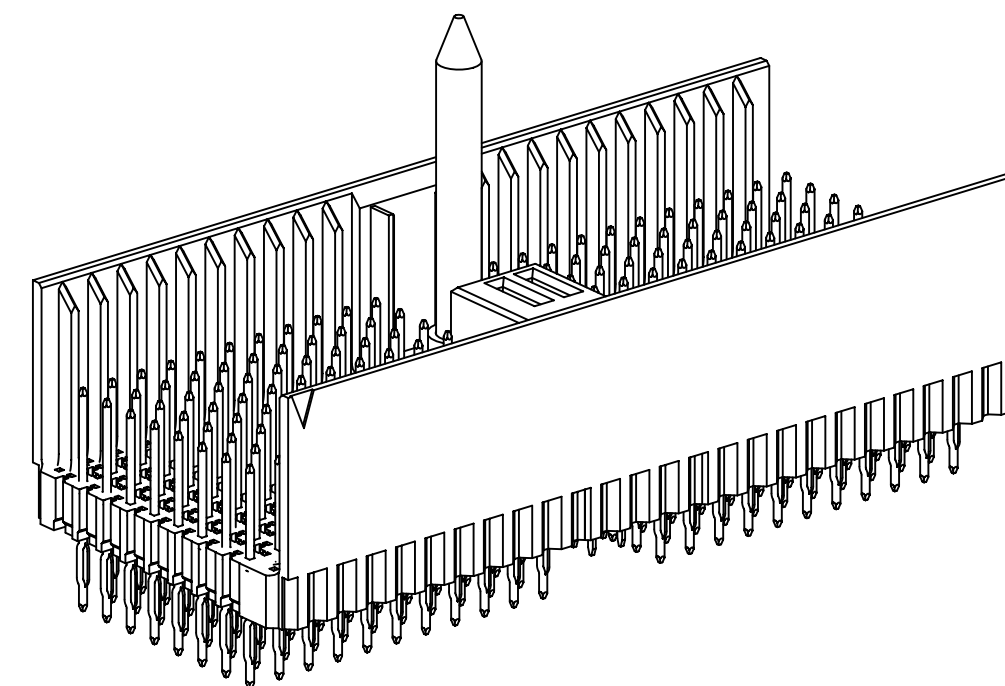
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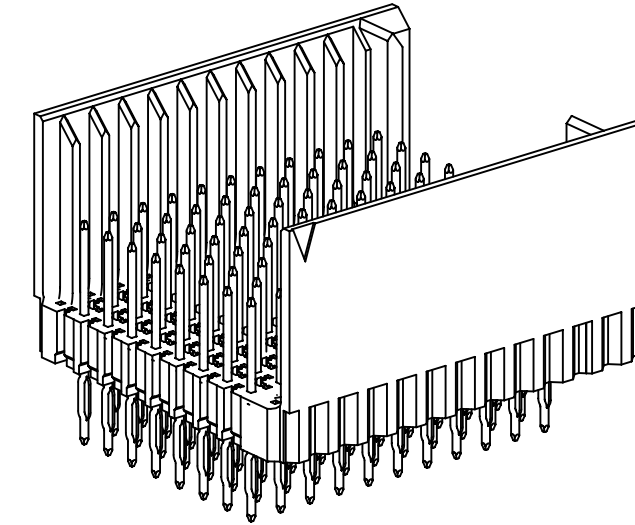
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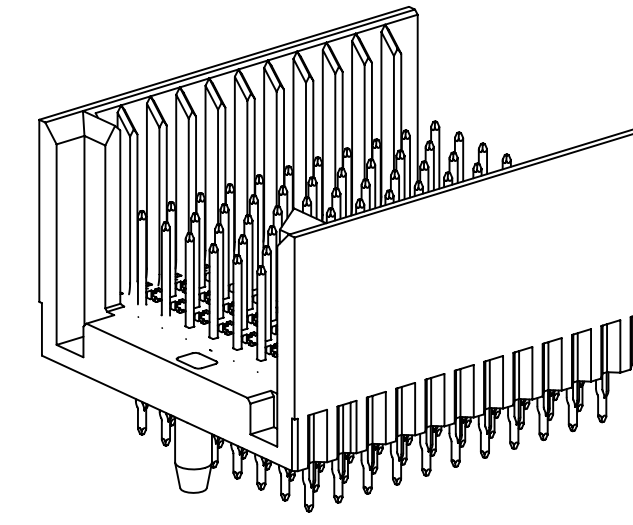
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HM-H220DG2-8BX1



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 ——— PLATING

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

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

HM-HXXXXX2-8BX1-XXXXX

HEADER POSITION AND TYPE ——— PLATING

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

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
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.

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)

ELECTRICAL:

CURRENT RATING (FULLY LOADED): 1A @ 70°C SIGNAL
INSULATION RESISTANCE: 1 X 10⁴ MΩ @ 100 V_{DC}
WITHSTANDING VOLTAGE: 750V_{RMS}

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

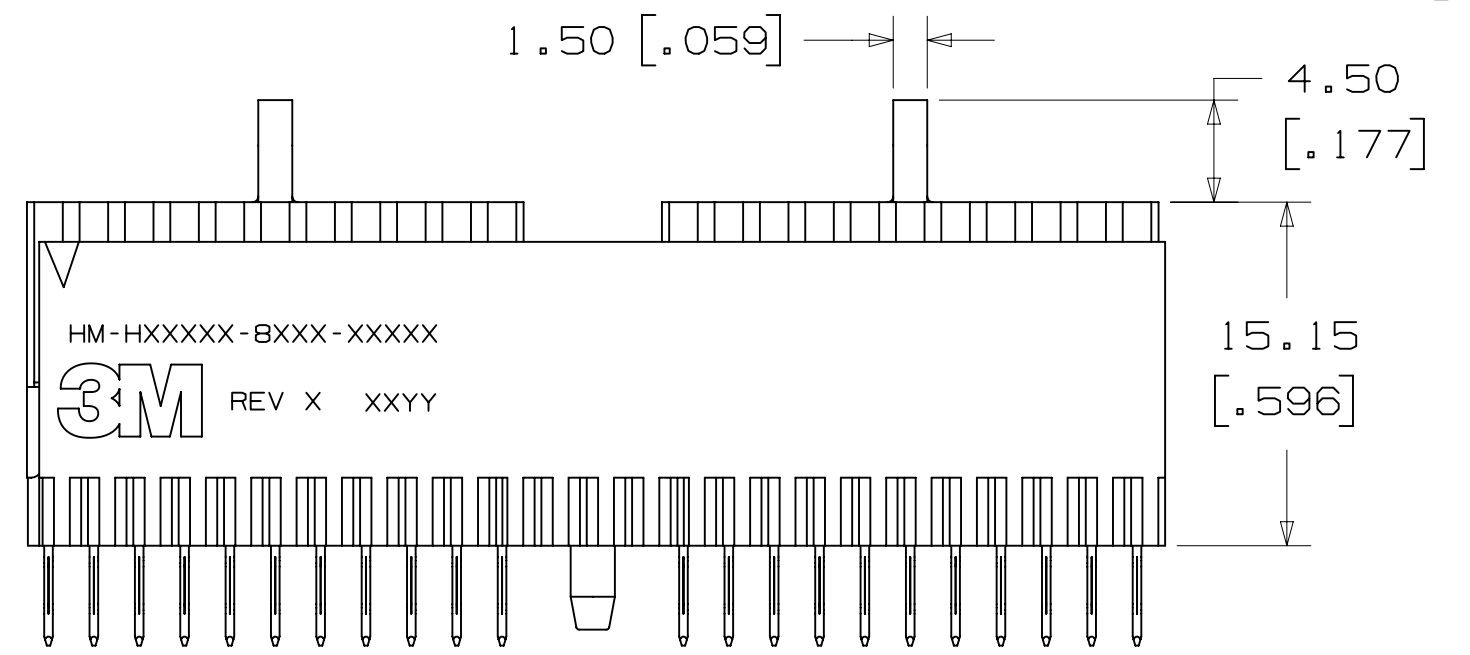
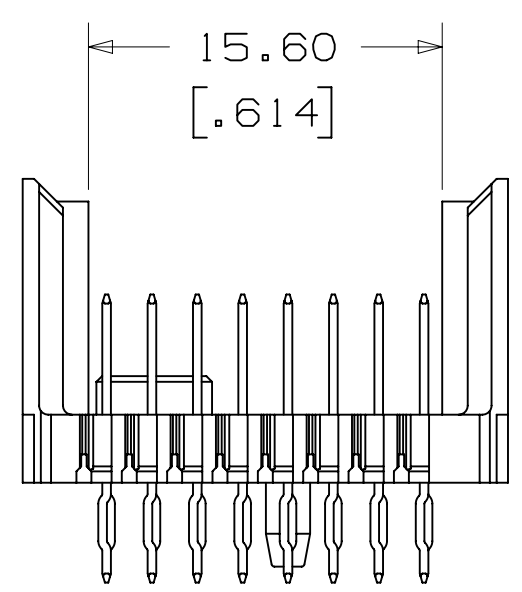
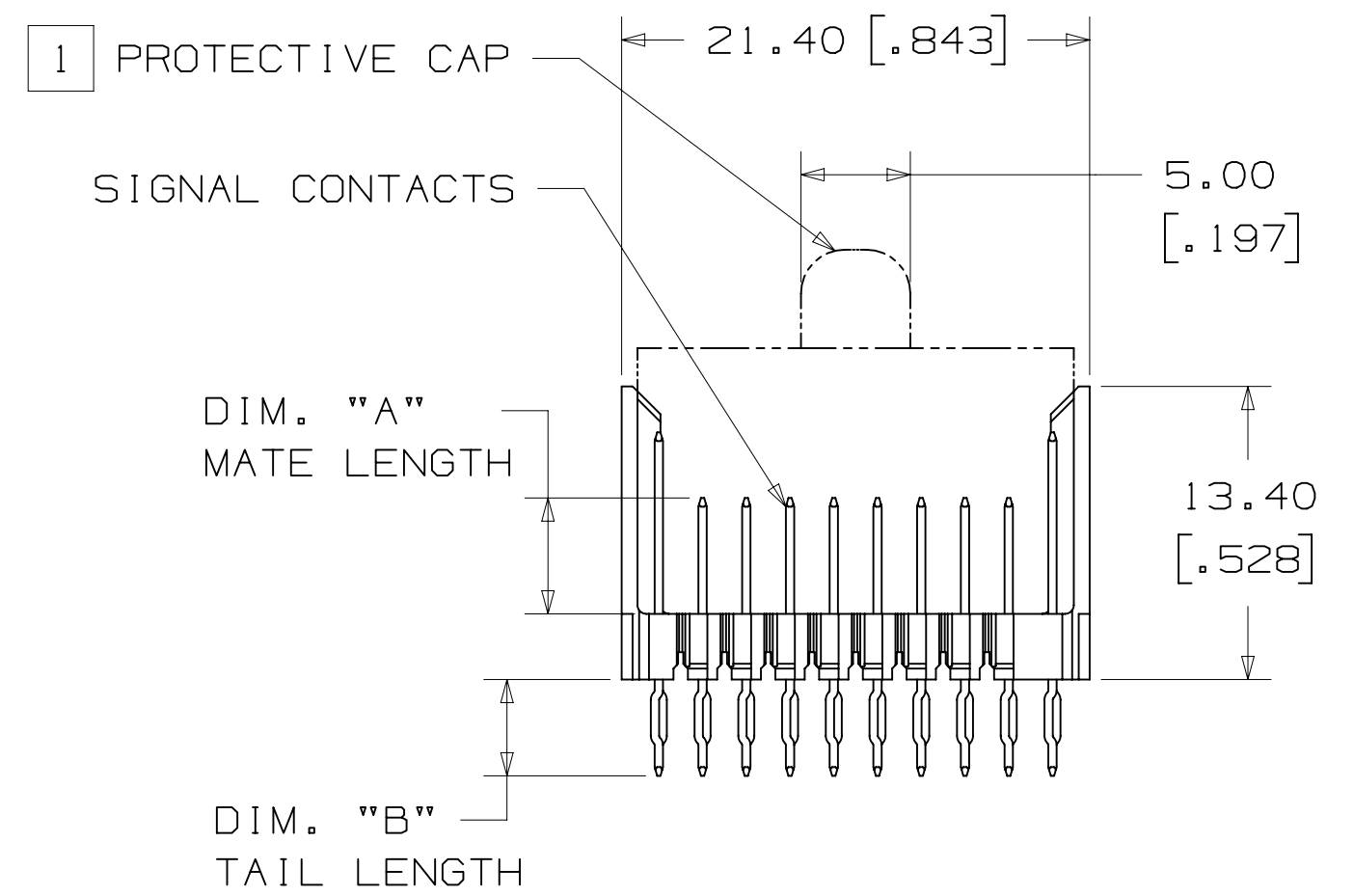
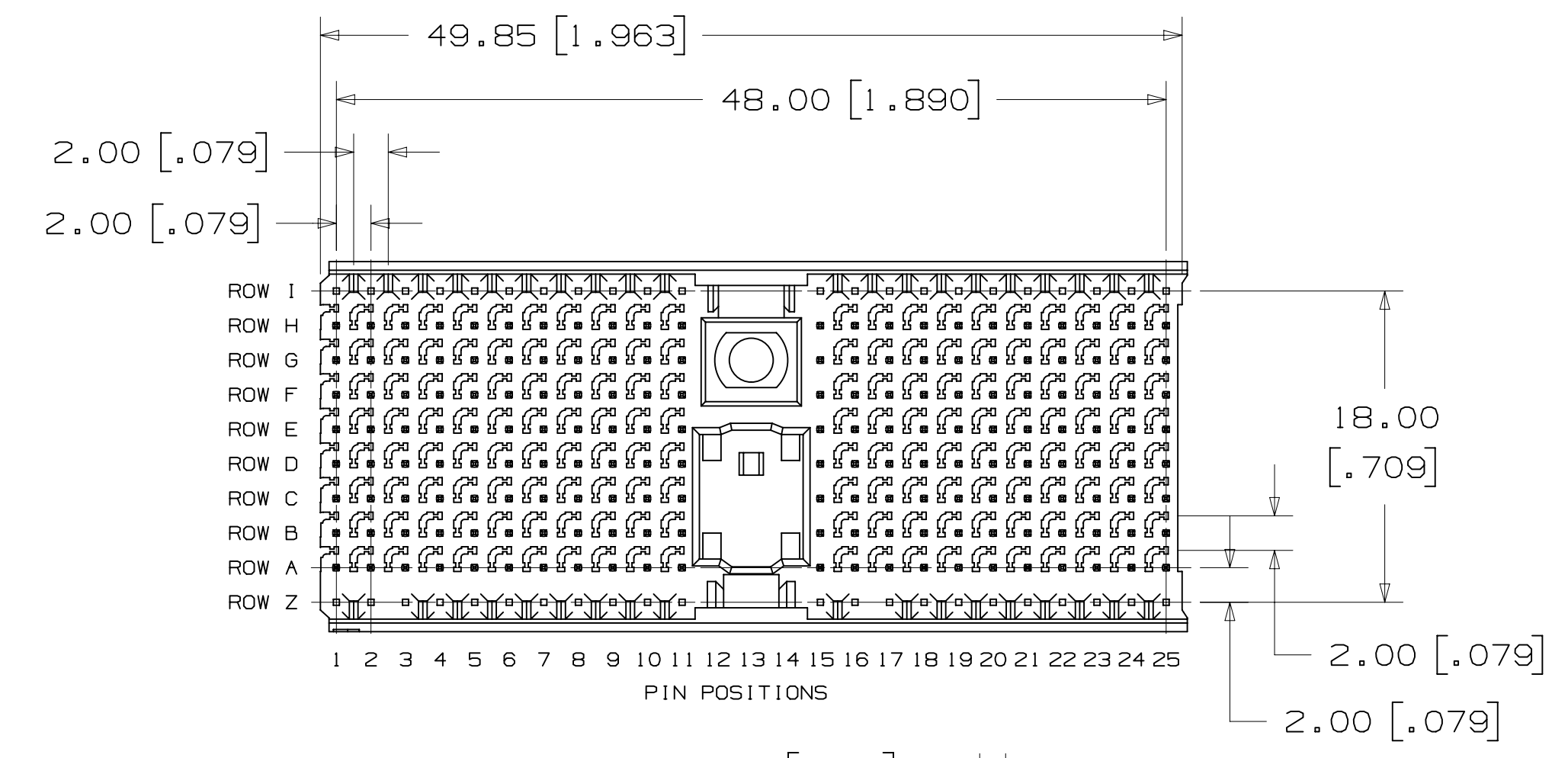
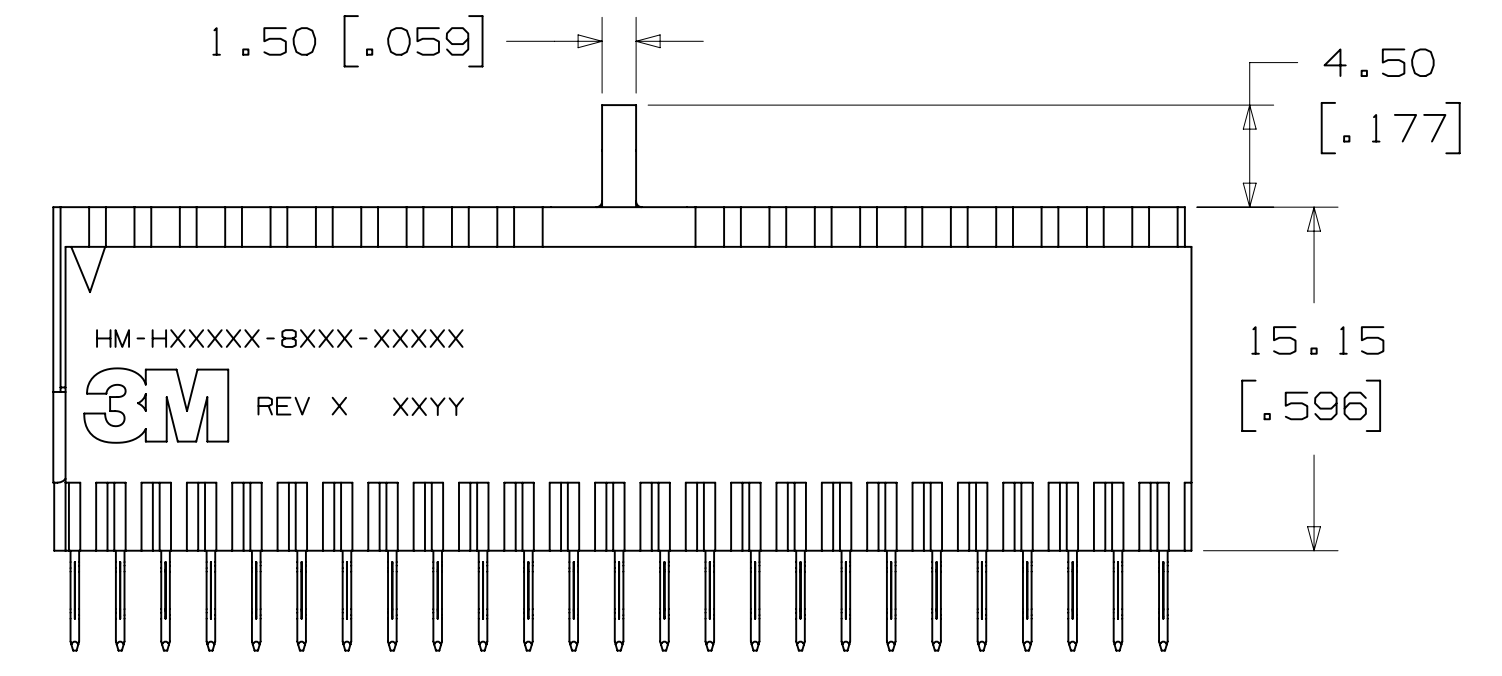
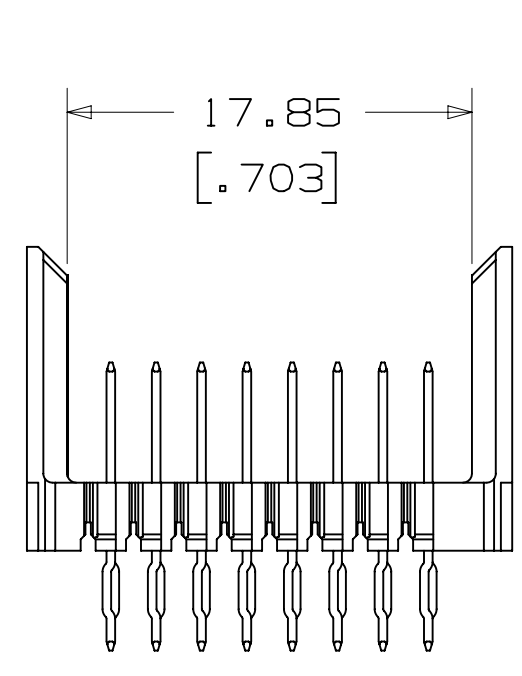
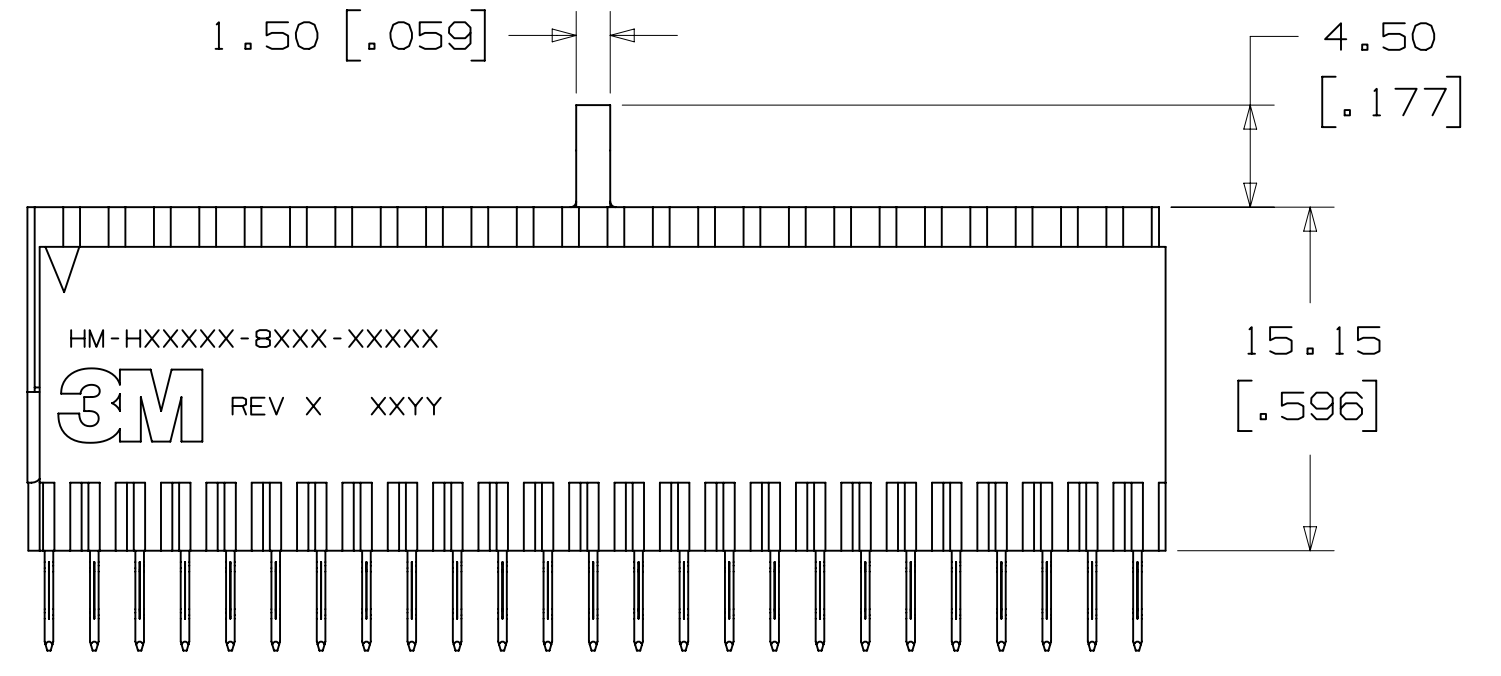
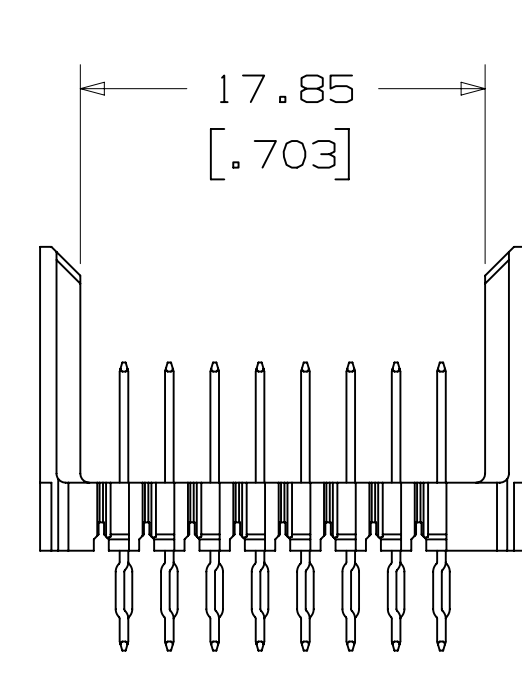
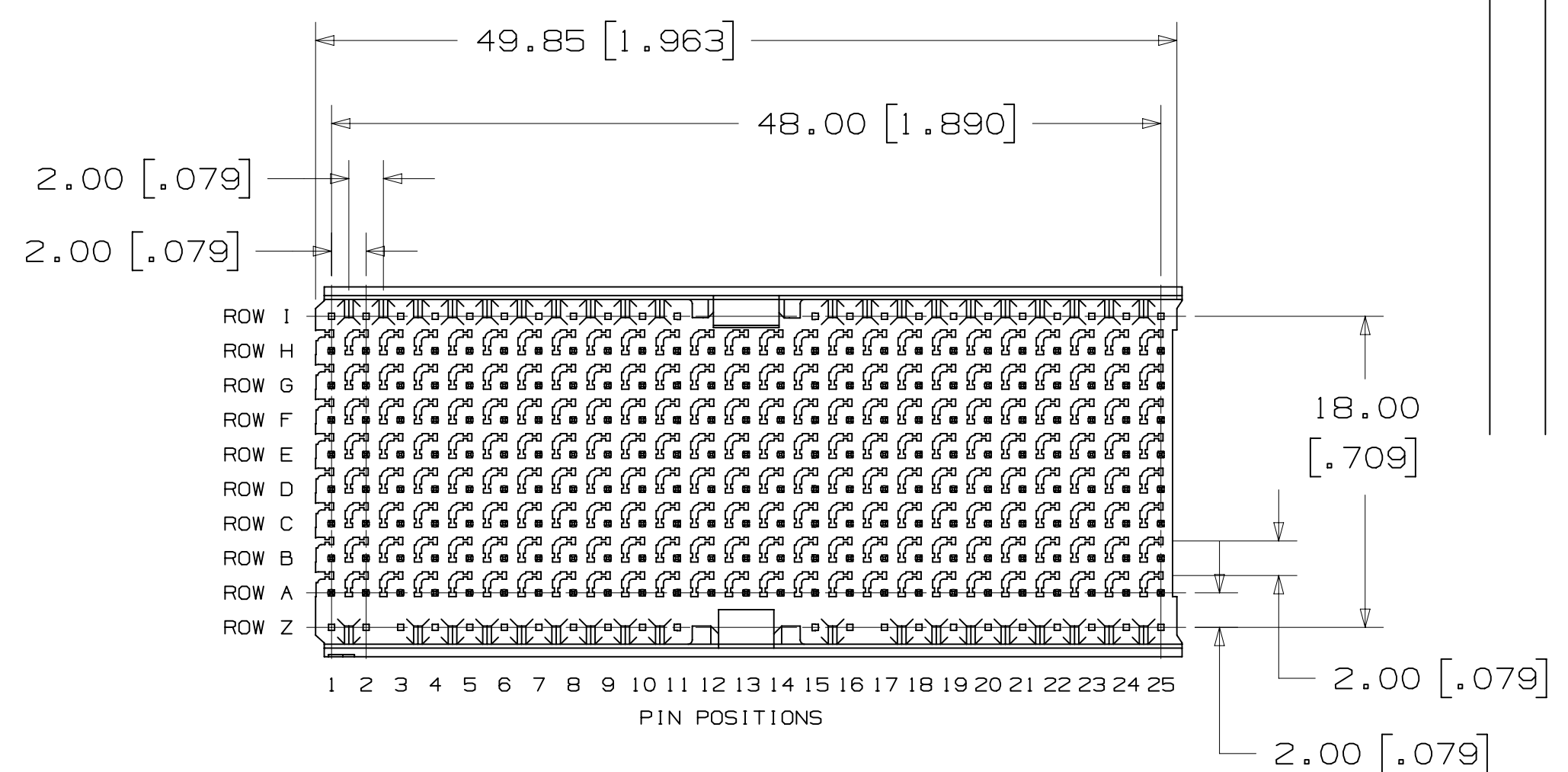
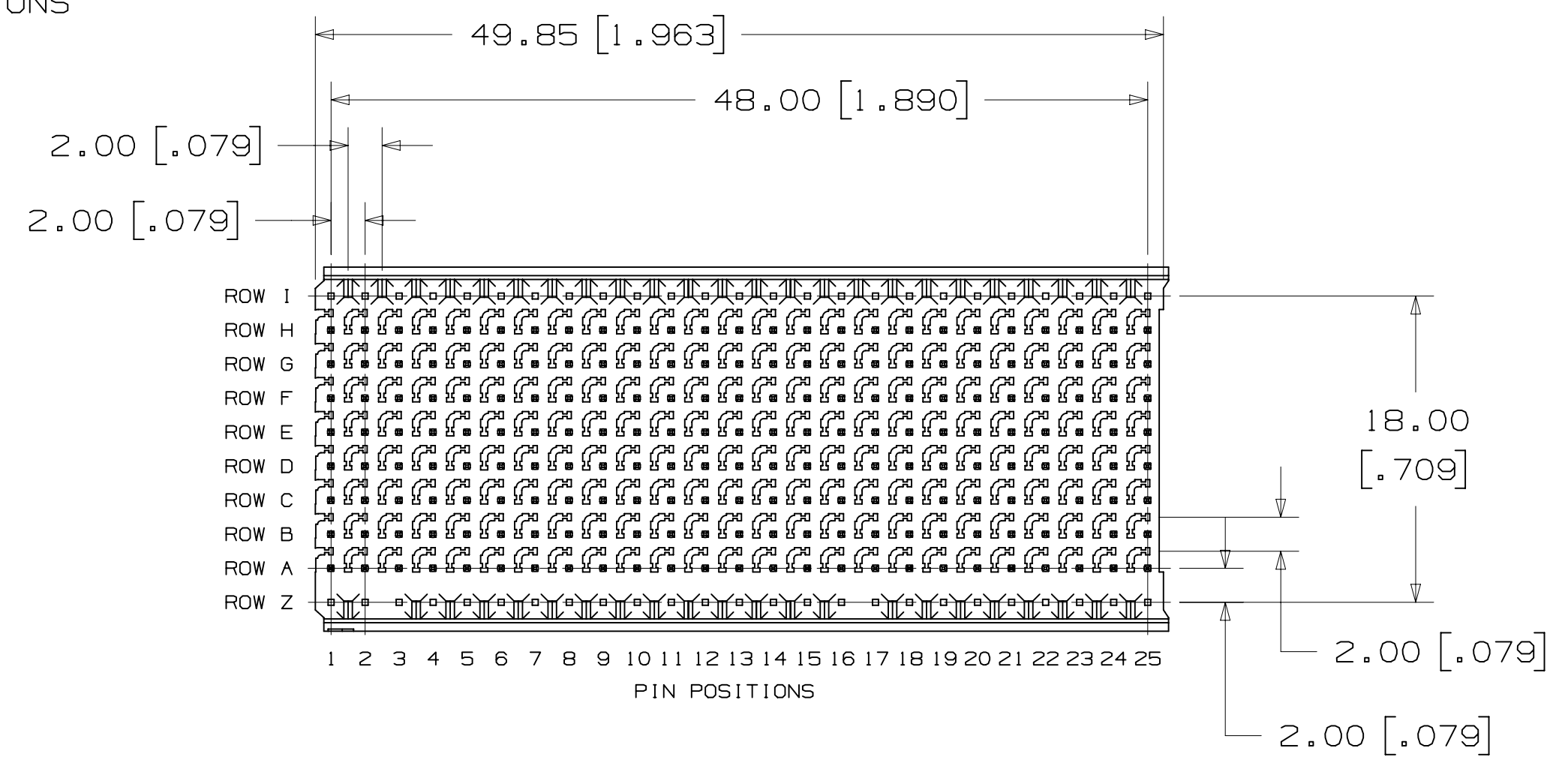
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UL FILE NO: E68080

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|------------------|--|---------------|--|-----|-----|----------------------------|--|------|------|
| DESIGN REFERENCE | | NEXT ASSEMBLY | | REV | ECO | ISSUE DATE AND DESCRIPTION | | DRFT | CHKD |
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| CAGD | | CAGD | | 002 | | MAR 28, 2012 MFG | | | |
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3M™ HM PRESS-FIT HEADER, 8-ROW, HM SERIES
FOR HARD METRIC APPLICATIONS

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

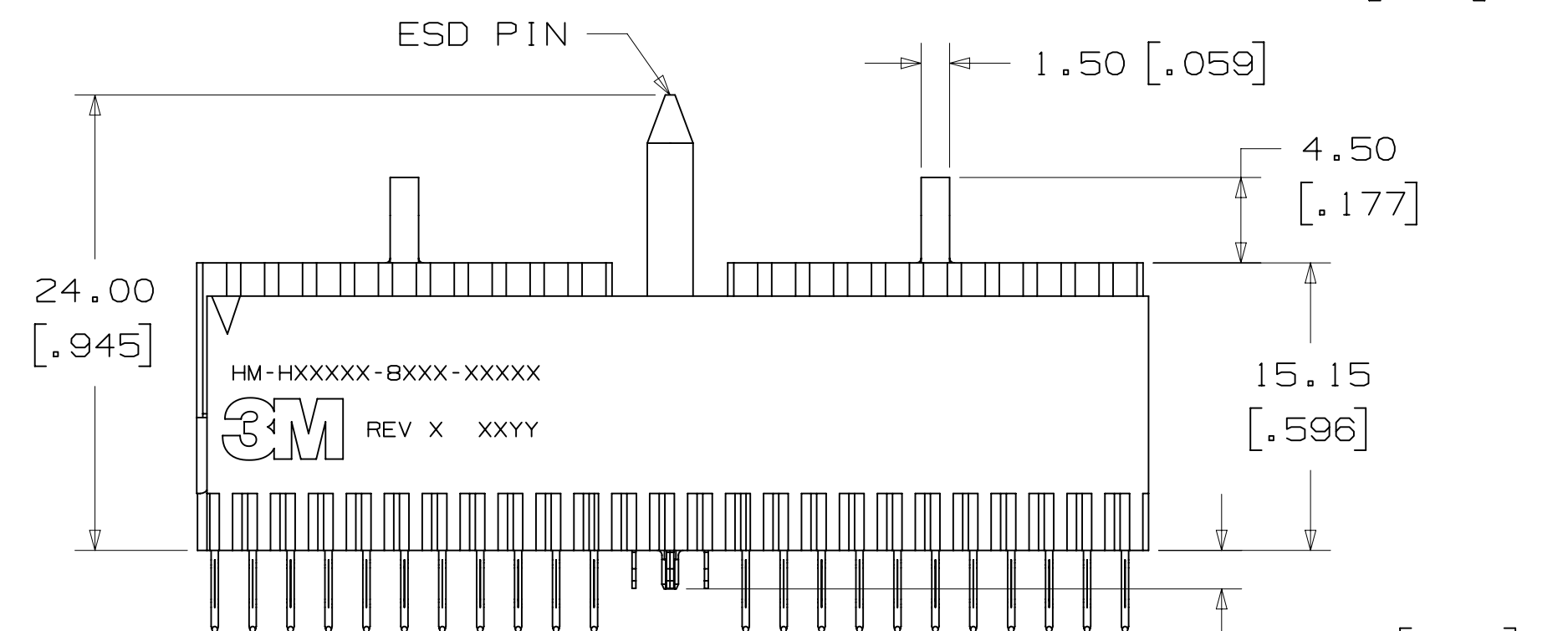
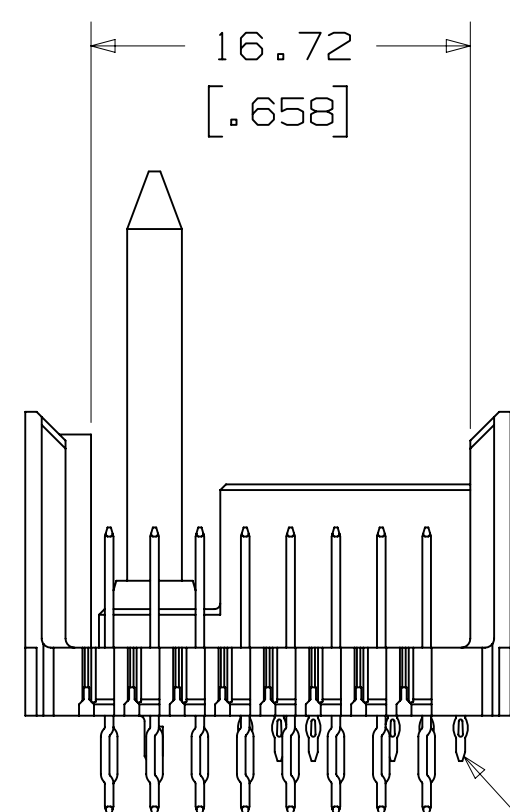
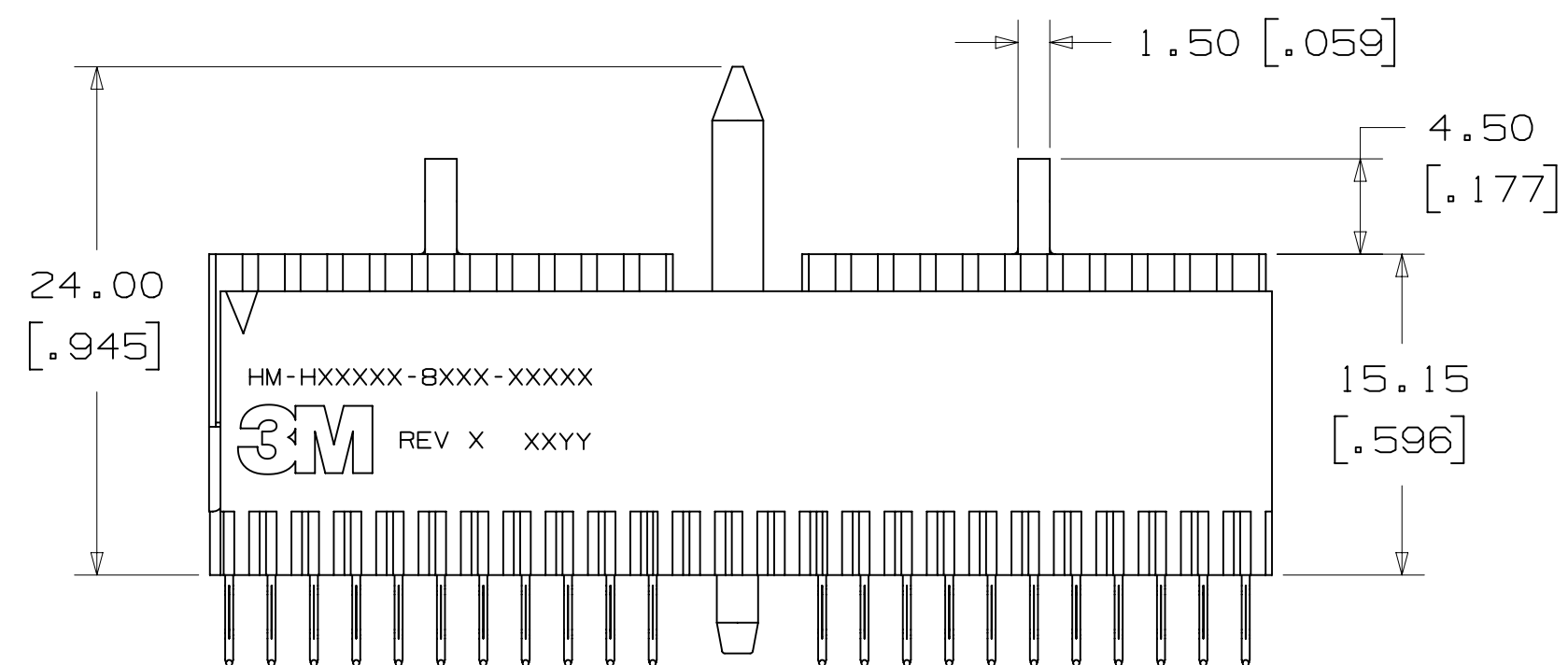
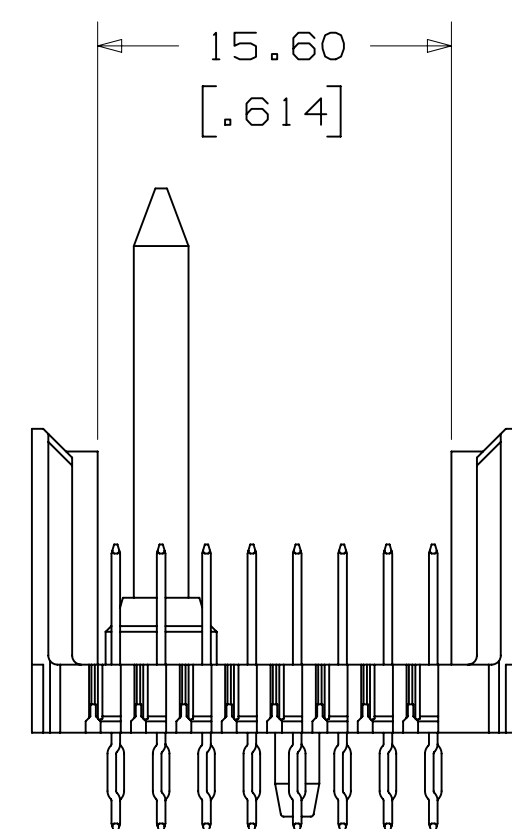
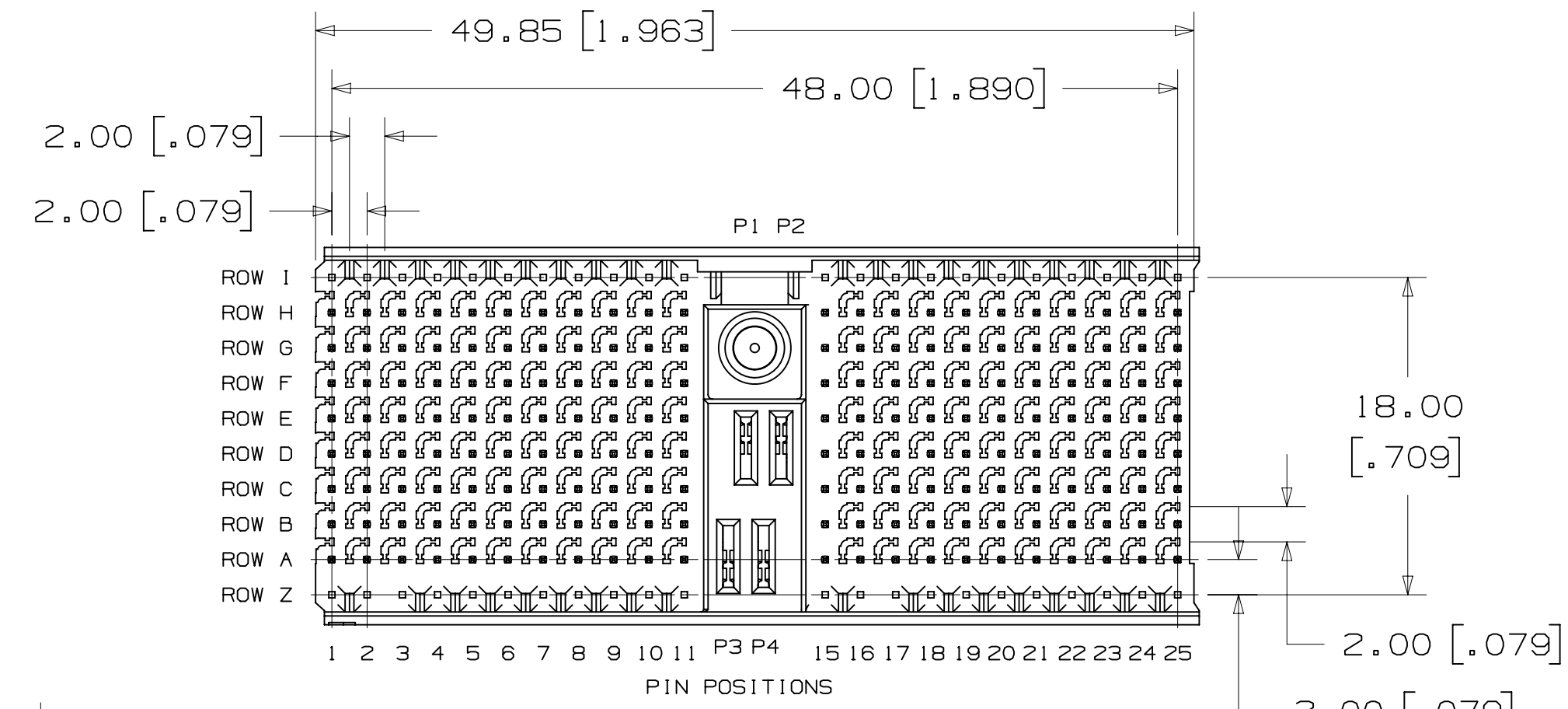
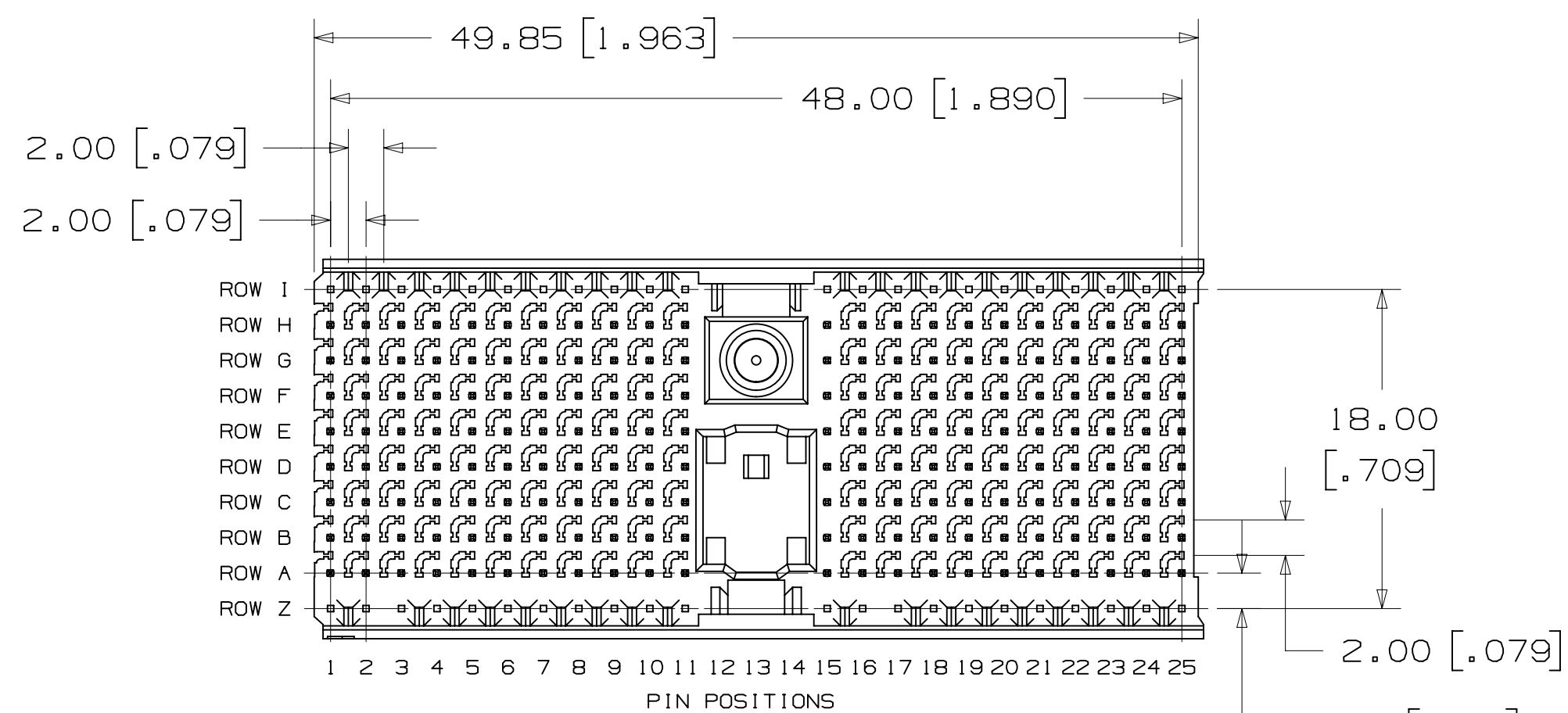


STANDARD CONFIGURATION
DIM. "A" 5.3 [.21] FOR ROWS A THRU H
DIM. "B" 4.4 [.17] EXCEPT AS NOTED
FOR NON-STANDARD CONFIGURATIONS CONTACT A 3M SALES REPRESENTATIVE

| | | | | | | |
|---------------------------------|---------------|----------------------------|-----|----------------------------|------|------|
| DESIGN REFERENCE | NEXT ASSEMBLY | REV | ECO | ISSUE DATE AND DESCRIPTION | DRFT | CHKD |
| | | | | MAR 28, 2012 | | |
| DIVISION | | DIVISION CODE | | DATE | | |
| Interconnect Solutions | | ISD | | MAR 28, 2012 | | |
| DO NOT SCALE DRAWING | SCALE 3/1 | TOLERANCES EXCEPT AS NOTED | | DATE | | |
| THIRD ANGLE PROJECTION | | INCHES | | DATE | | |
| INTERPRET PER ASME Y14.5 - 1994 | | MILLIMETERS | | DATE | | |
| MAX SURFACE ROUGHNESS | | SURFACES | | DATE | | |
| MARKED ONLY | | ANGLES | | DATE | | |
| CAGE NUMBER | | DRAWING NO. | | REV. | | |
| D78-5100-2517-0 | | A | | SHT 2 OF 4 | | |

78-5100-2517-0
DRAWING NUMBER

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



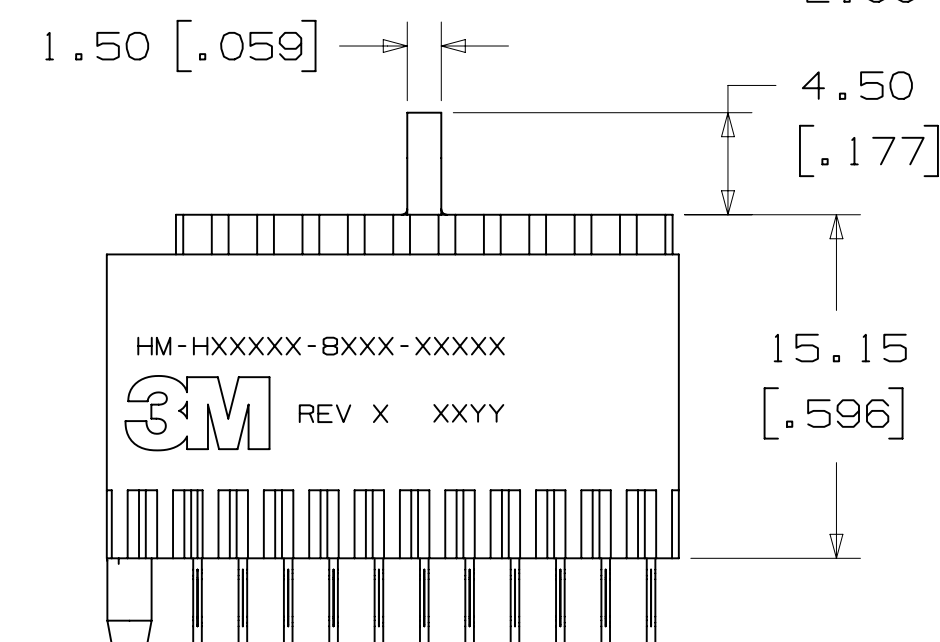
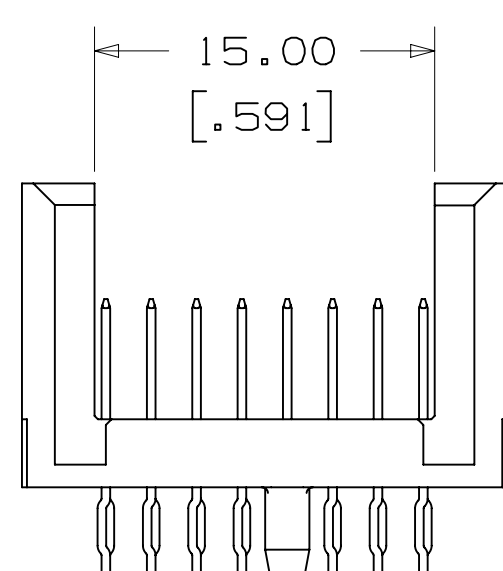
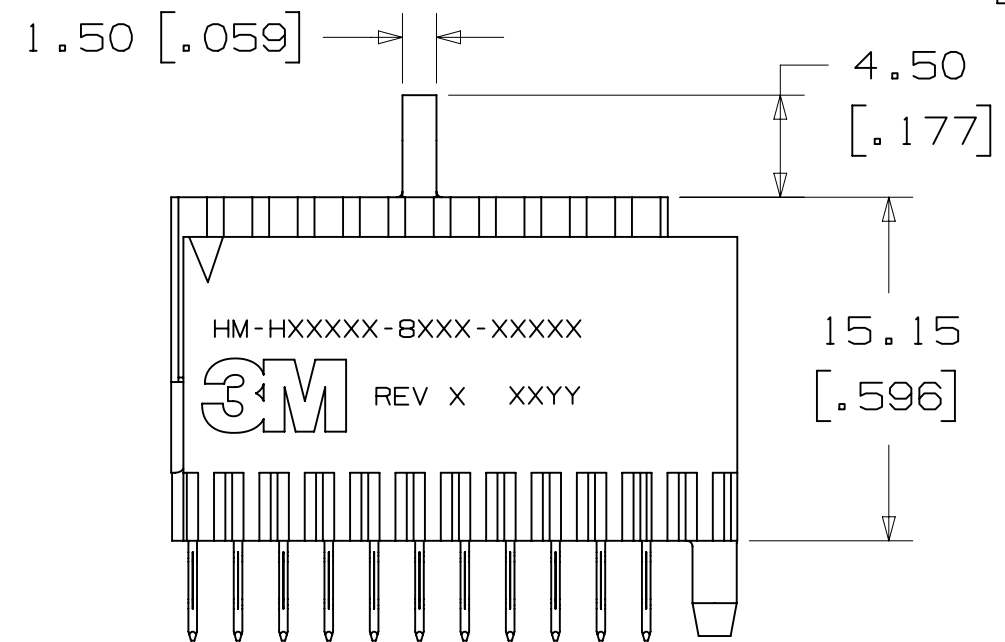
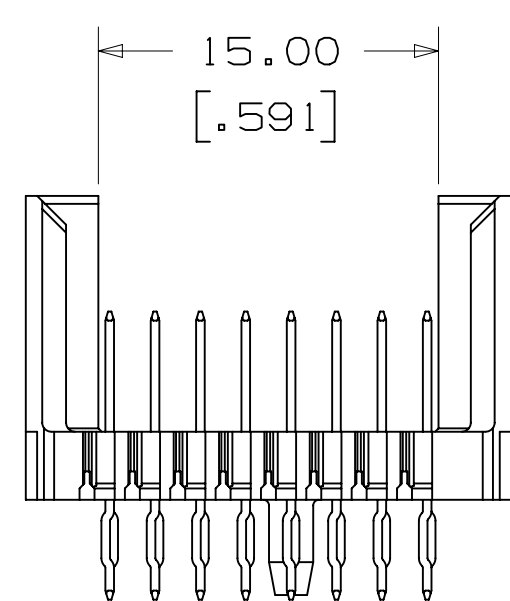
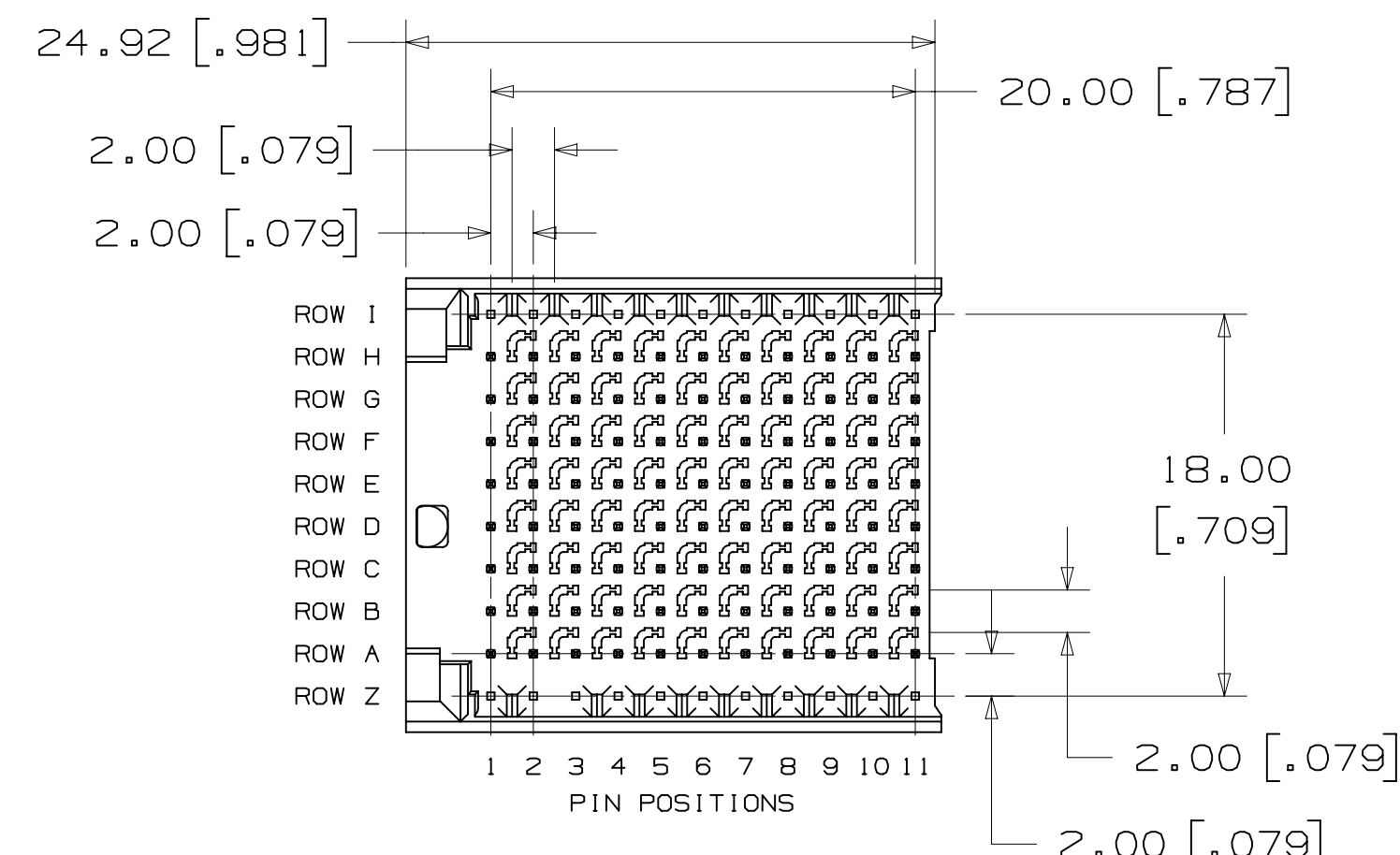
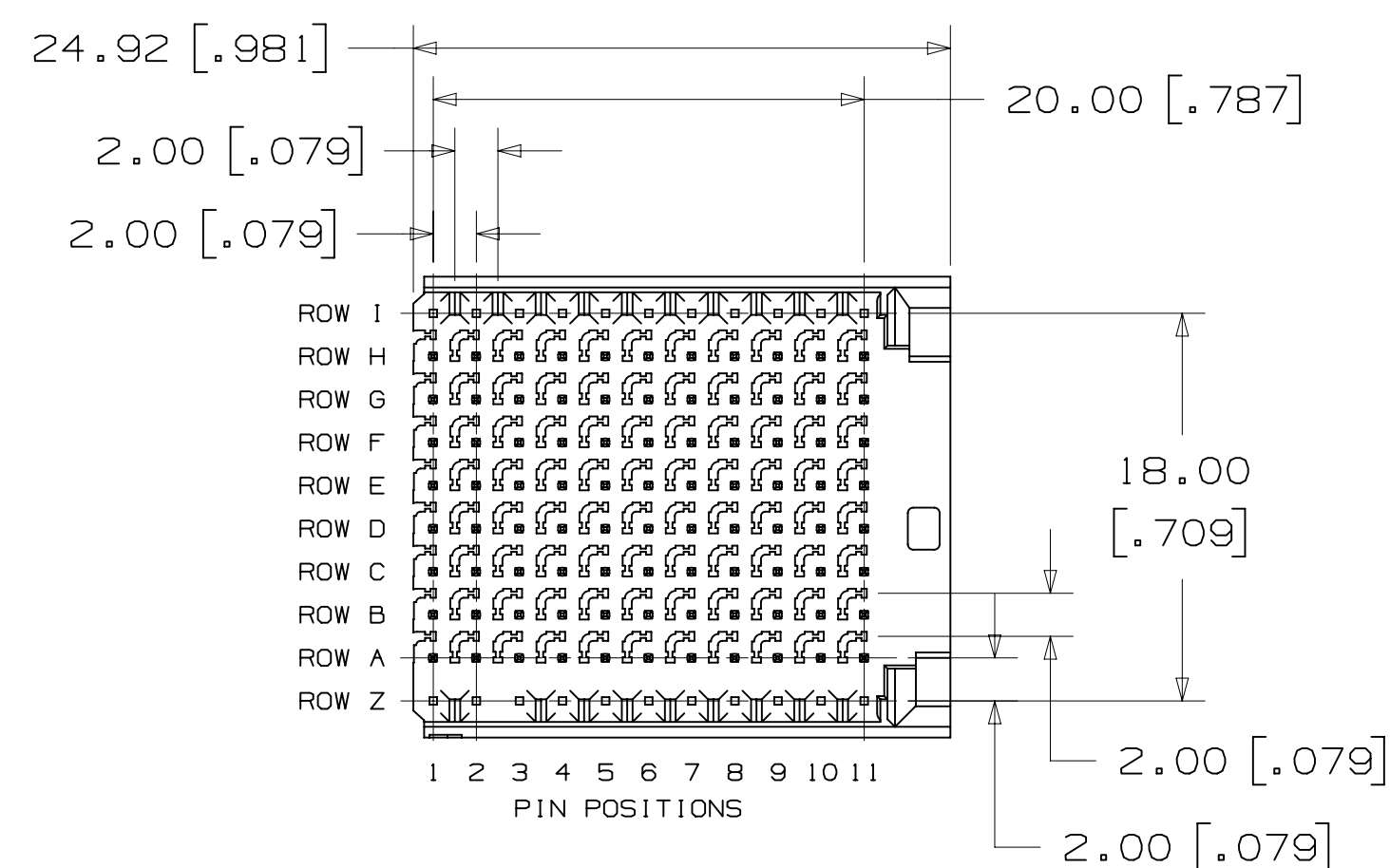
HM-H176DG1-8CX1
HM-H220DG2-8BX1

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

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

| | | | | | | |
|------------------------|---------------|---------------------------------|-------------|----------------------------|------|------|
| DESIGN REFERENCE | NEXT ASSEMBLY | REV | ECO | ISSUE DATE AND DESCRIPTION | DRFT | CHKD |
| | | | | MAR 28, 2012 | | |
| DIVISION | | DIVISION CODE | | DATE | | |
| Interconnect Solutions | | ISD | | MAR 28, 2012 | | |
| DO NOT SCALE DRAWING | | SCALE 3/1 | | TOLERANCES EXCEPT AS NOTED | | |
| THIRD ANGLE PROJECTION | | INTERPRET PER ASME Y14.5 - 1994 | | MILLIMETERS | | |
| MAX SURFACE ROUGHNESS | | SURFACES | | ANGLES | | |
| MARKED ONLY | | | | | | |
| CAGE NUMBER | | SIZE | DRAWING NO. | REV. | | |
| D78-5100-2517-0 | | | | A | | |
| MODEL | | SHT 3 OF 4 | | | | |

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

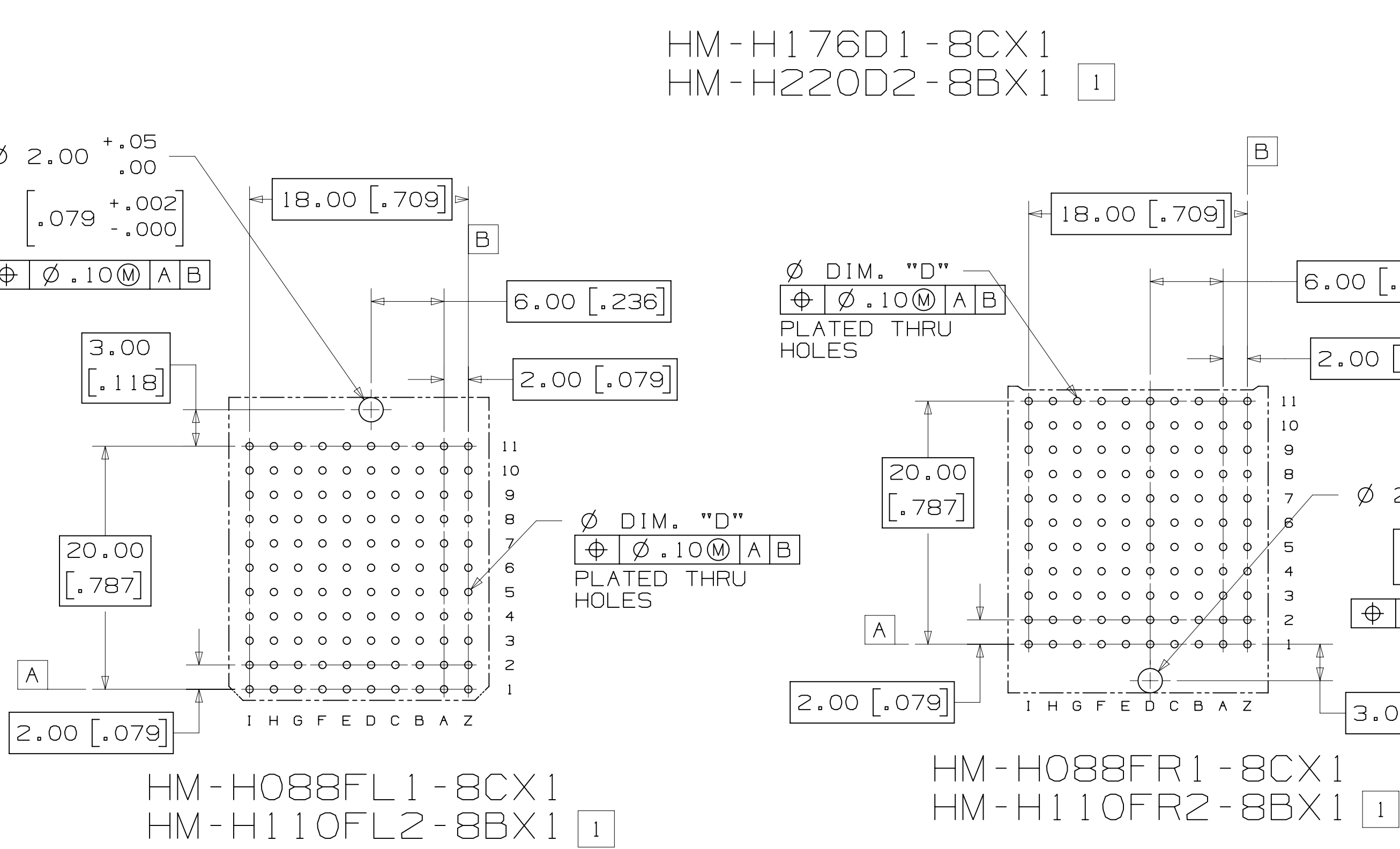
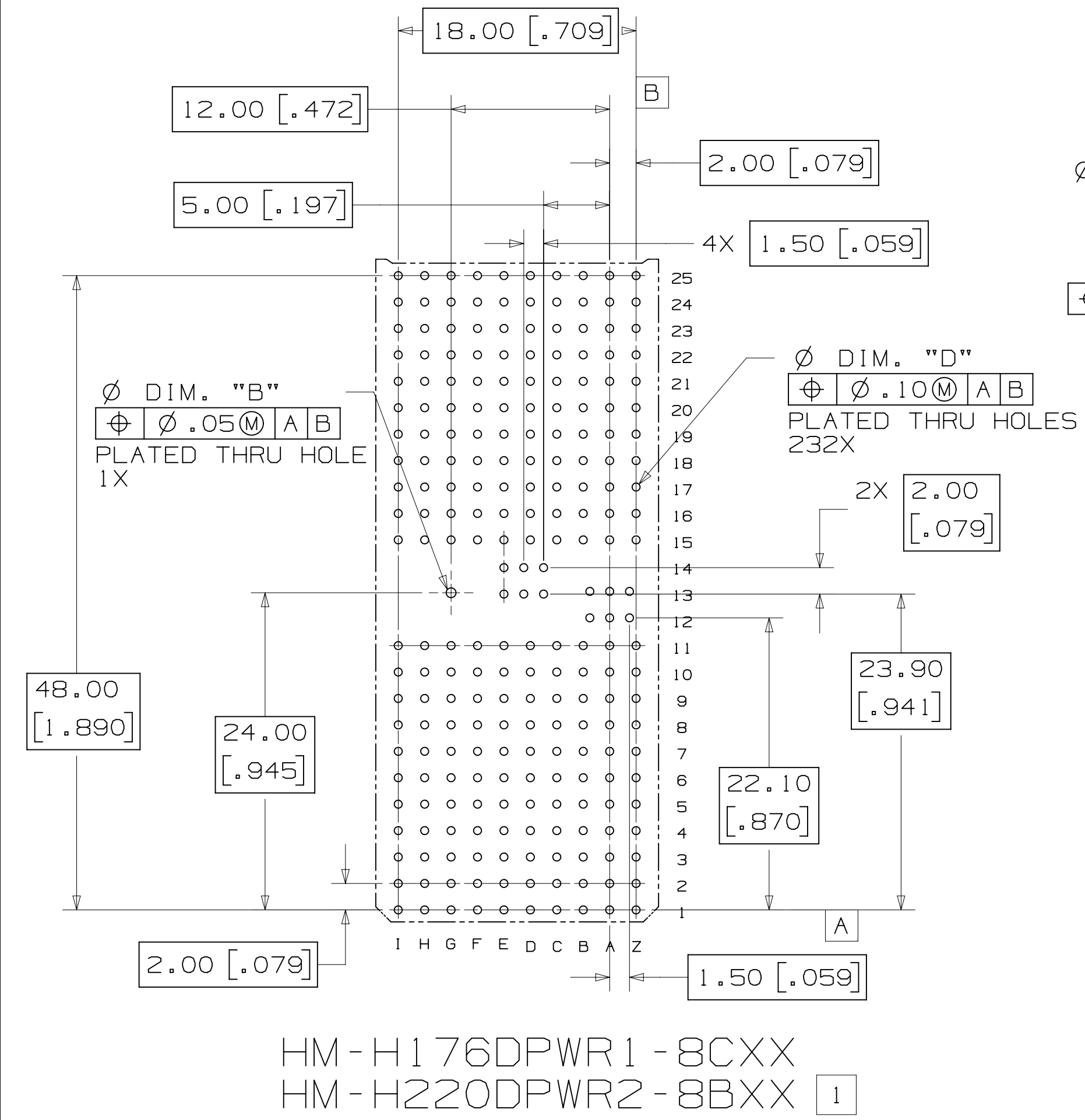
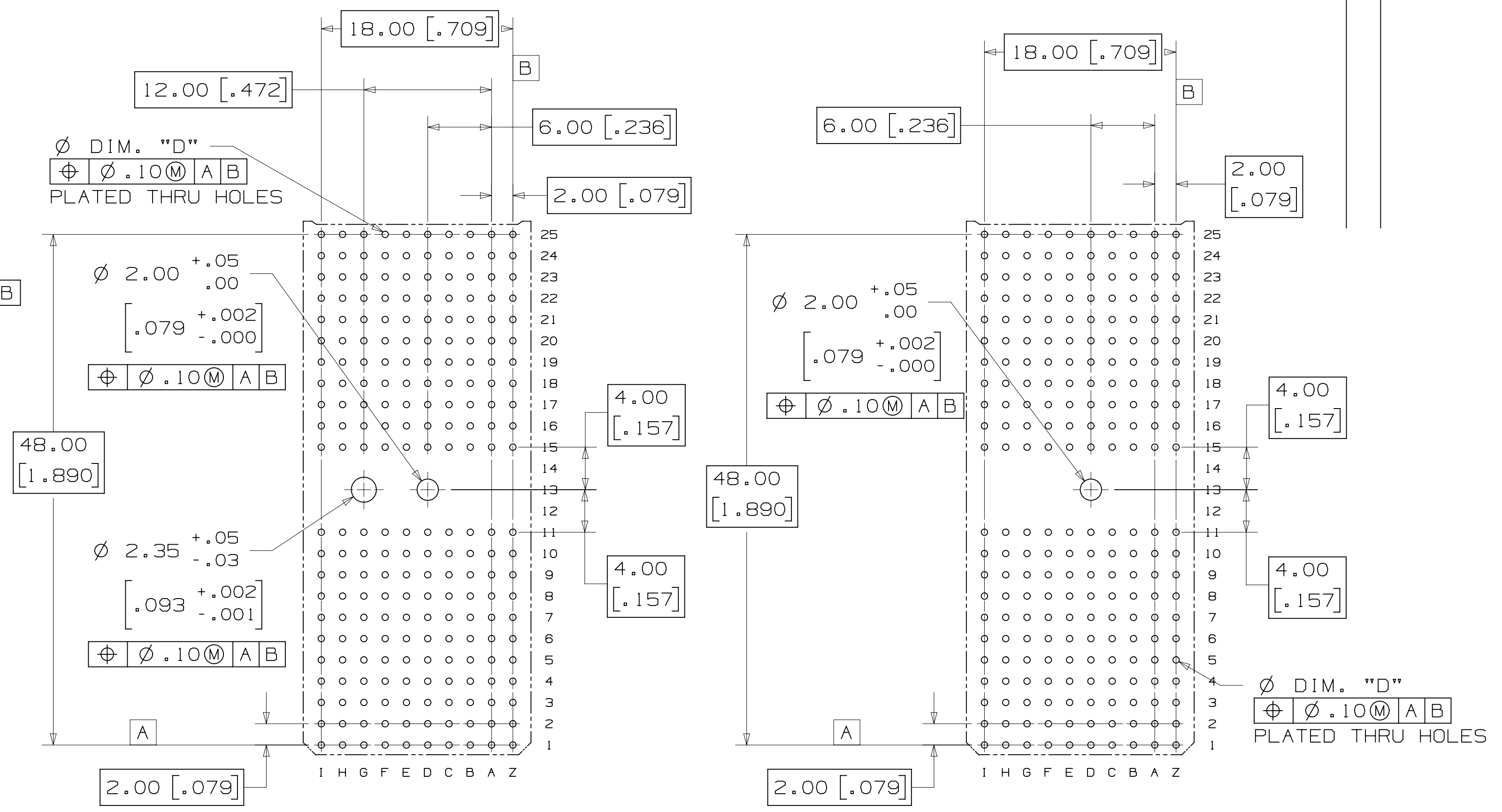
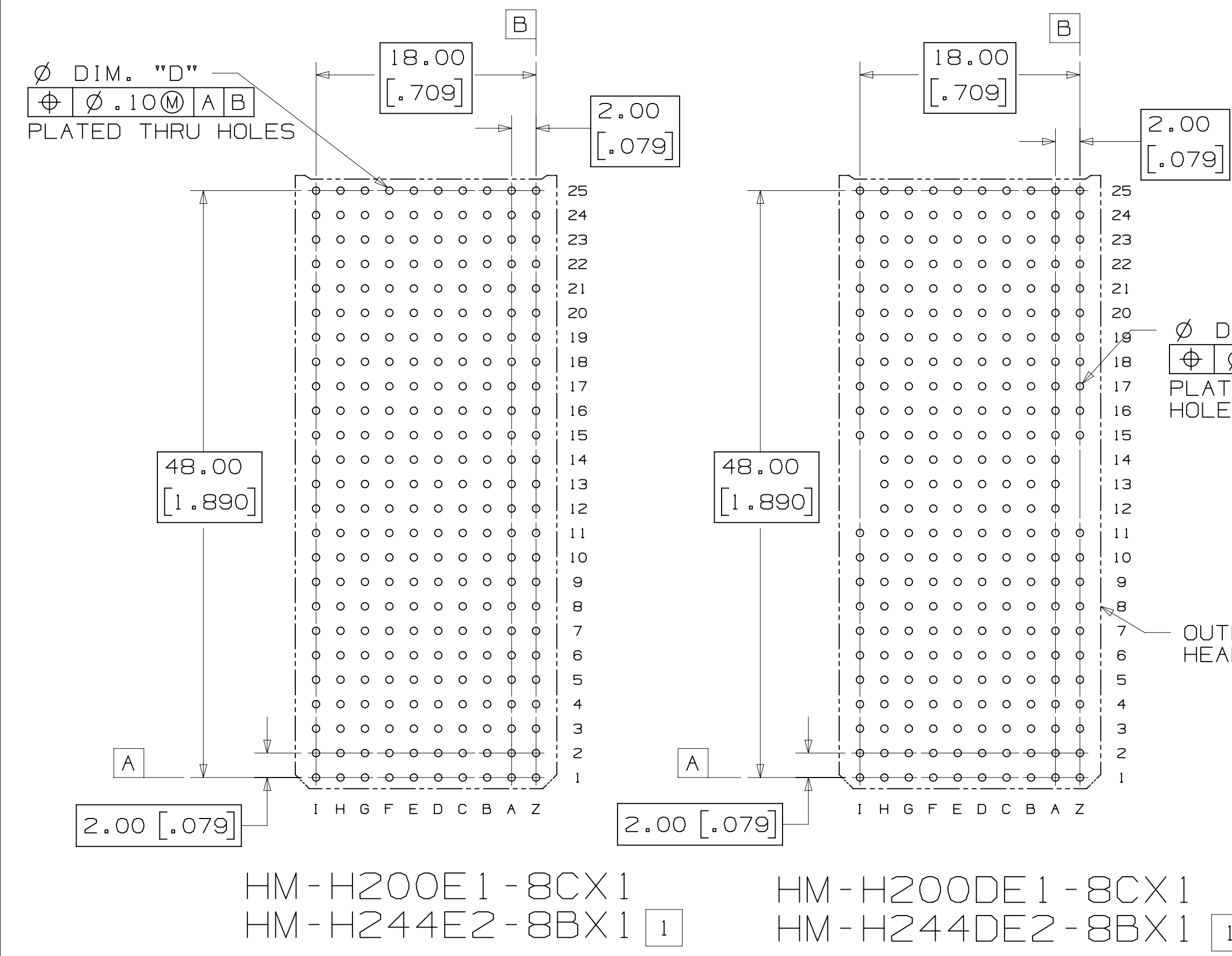
78-5100-2517-0
DRAWING NUMBER

REV. A

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

| HOLE | HOLE PLATING TABLE | | | |
|----------|-------------------------|-------------------------|-------------------------|-------------------------|
| | (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] |

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



RECOMMENDED PCB MOUNTING HOLE PATTERN
(VIEWED FROM COMPONENT SIDE)

| DESIGN REFERENCE | NEXT ASSEMBLY | REV | ECO | ISSUE DATE AND DESCRIPTION | DRFT | CHKD |
|---------------------------------|---------------|----------------------------|-------|--|------|--------------|
| | | A | 39815 | MAR 28, 2012 | JNC | TS |
| | | | | PRODUCTION RELEASE | | |
| DESIGNER | | DATE | | MFG DATE | | DATE |
| CASTIGLIONE | | MAR 28, 2012 | | | | MAR 28, 2012 |
| CHKD | | DATE | | APPR | | DATE |
| | | | | T. SUNIGA | | MAR 28, 2012 |
| DIVISION | | DIVISION CODE | | DATE | | |
| Interconnect Solutions | | ISD | | | | |
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| MAX SURFACE ROUGHNESS | | ANGLES | | TITLE | | |
| L SURFACES | | | | HM PRESS-FIT HEADER, 8-ROW, HM SERIES | | |
| MARKED ONLY | | | | CAGE NUMBER | | |
| | | | | D 78-5100-2517-0 | | |
| | | | | REV. A | | |
| | | | | SHT 4 OF 4 | | |

78-5100-2517-0



Компания «ЭлектроПласт» предлагает заключение долгосрочных отношений при поставках импортных электронных компонентов на взаимовыгодных условиях!

Наши преимущества:

- Оперативные поставки широкого спектра электронных компонентов отечественного и импортного производства напрямую от производителей и с крупнейших мировых складов;
- Поставка более 17-ти миллионов наименований электронных компонентов;
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- Лицензия ФСБ на осуществление работ с использованием сведений, составляющих государственную тайну;
- Поставка специализированных компонентов (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Aeroflex, Peregrine, Syfer, Eurofarad, Texas Instrument, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

Помимо этого, одним из направлений компании «ЭлектроПласт» является направление «Источники питания». Мы предлагаем Вам помощь Конструкторского отдела:

- Подбор оптимального решения, техническое обоснование при выборе компонента;
- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



Как с нами связаться

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