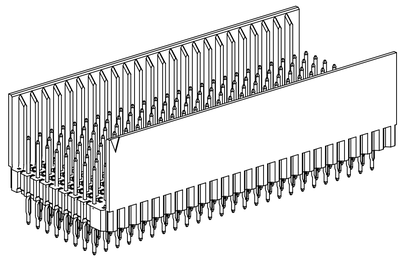
3M™ HM PRESS-FIT HEADER, 8-ROW, HM SERIES

FOR HARD METRIC APPLICATIONS

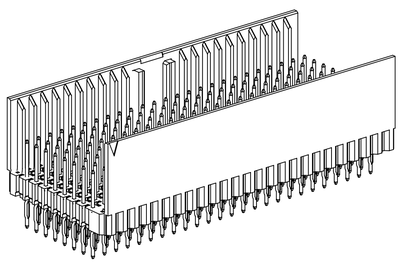
* MODULAR/SCALABLE FORMAT IEC 61076-4-101
* PRESS-FIT OF SOLDER TAIL VERSION
* 101 MATED LINES PER INCH
* SHIPS WITH PROTECTIVE CAP, WHICH ALSO SERVIES AS AN INSERTION TOOL
* END-TO-END STACKABLE WITH 8 ROW 3M™ HM AND HSHM PRODUCTS
* INTEGRATED GUIDE AND GUIDE PIN
* MULTI-PURPOSE CENTER (MPC) KEYING AND GUIDANCE
* FOUR INTEGRATED 8.25 A POWER CONTACTS AND GUIDE PIN

NOTES

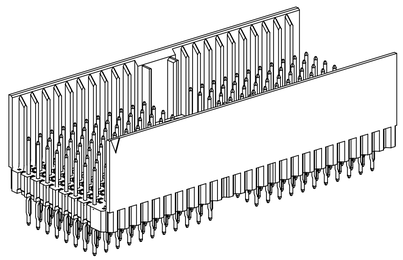
1. MATERIAL:
   PLASTIC: HIGH TEMP LCP, UL94V-0
   PINS: COPPER ALLOY.
2. REGULATORY INFORMATION:
   ROHS COMPLIANT. SEE THE REGULATORY INFORMATION APPENDIX (RIA) IN THE "ROHS COMPLIANCE" SECTION OF WWW.3MCONNECTORS.COM FOR COMPLIANCE INFORMATION (RIA E1 & C1 APPLY)
3. IN THE EVENT OF CONFLICT BETWEEN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



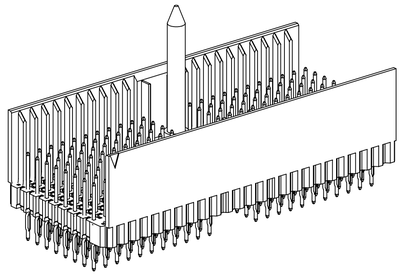
HM-H200E1-8CX1
HM-H244E2-8BX1



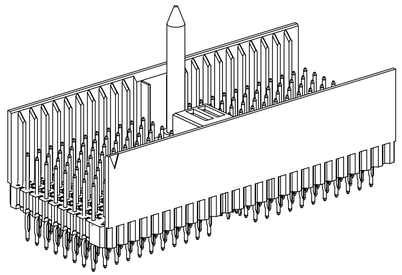
HM-H200DE1-8CX1
HM-H244DE2-8BX1



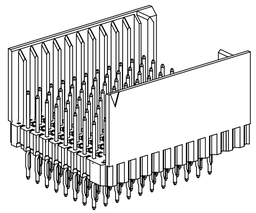
HM-H176D1-8CX1
HM-H220D2-8BX1



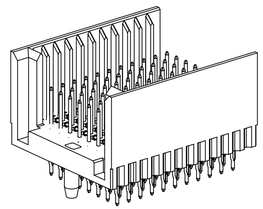
HM-H176DG1-8CX1
HM-H220DG2-8BX1



HM-H176DPWR1-8CX1
HM-H220DPWR2-8BX1



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



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

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:	1×10^4 MΩ @ 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)

(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.

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 FILE NO: E68080

DIMENSIONS: MM [INCHES]

REV	ECO	ISSUE DATE AND DESCRIPTION	DRFT	CHKD
A	39815	MAR 28,2012 PRODUCTION RELEASE	JNC	TS

DESIGN REFERENCE | NEXT ASSEMBLY | DISTRIBUTION CODES

DRFT: CASTIGLIONE, DATE: MAR 28,2012 | MFG | DATE
CHKD | DATE | APPVL: T. SUNIGA, DATE: MAR 28,2012

DIVISION: Interconnect Solutions | DIVISION CODE: ISD

DO NOT SCALE DRAWING | SCALE: 5/2

TOLERANCES EXCEPT AS NOTED
INCHES: .0 ± | .00 ± .01 | .000 ± .005 | .0000 ±
MILLIMETERS: 0 ± | .0 ± .3 | .00 ± .13 | .000 ±
ANGLES ±

THIRD ANGLE PROJECTION

INTERPRET PER ASME Y14.5 - 1994

MAX SURFACE ROUGHNESS: ☐ ALL SURFACES ☐ MARKED ONLY

© 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.

3M Center, St. Paul, MN 55144

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

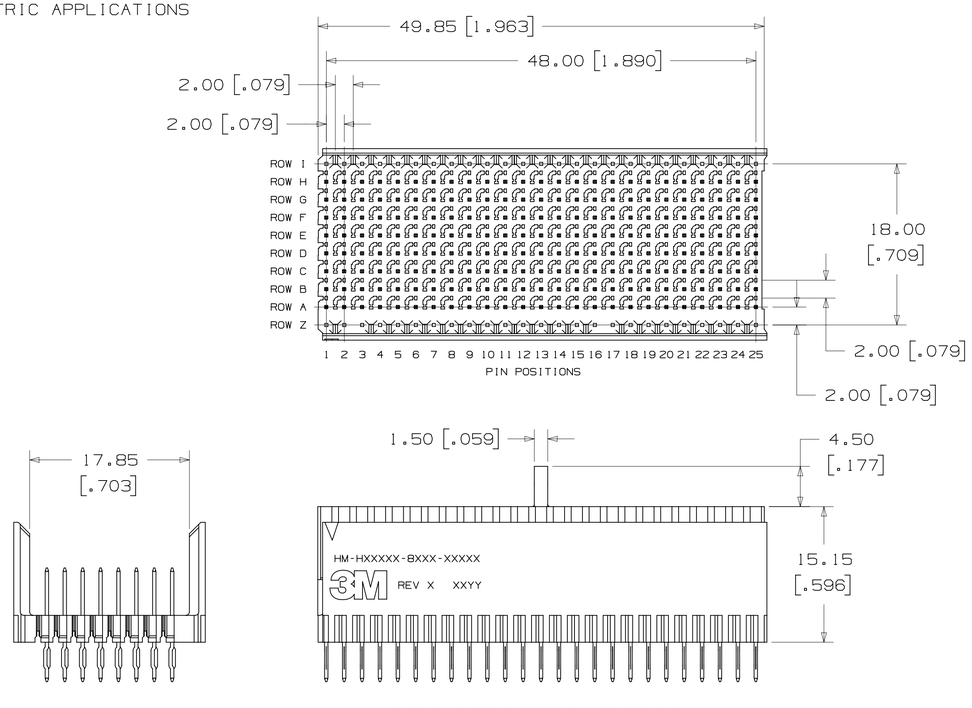
CAGE NUMBER | SIZE: D | DRAWING NO.: 78-5100-2517-0 | REV.: A

MODEL | DET. LISTS ☐ YES ☒ NO | SHT 1 OF 4

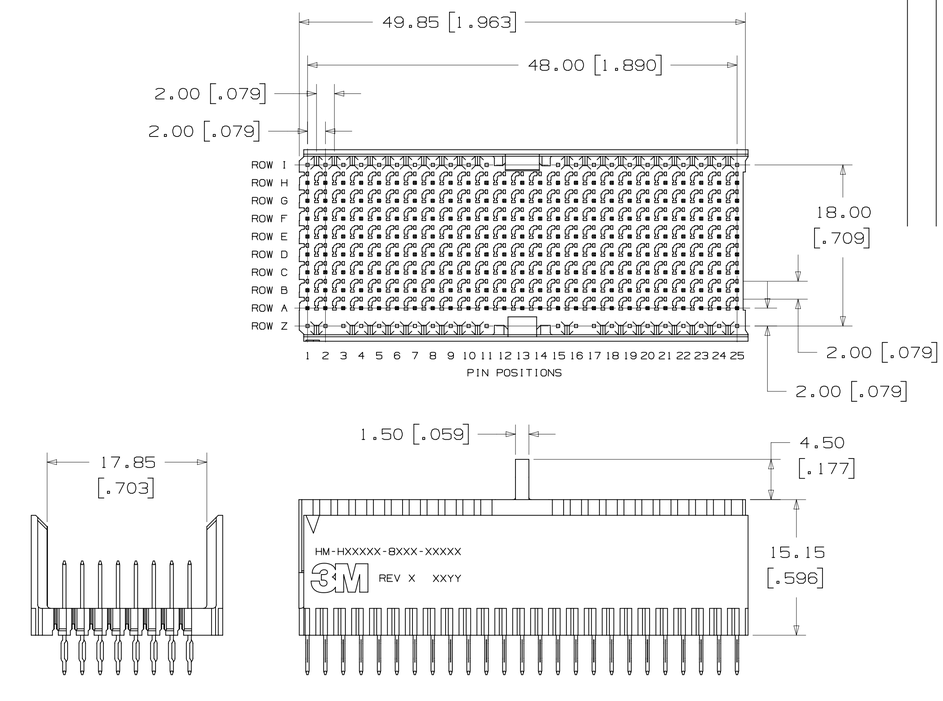
78-5100-2517-0 DRAWING NUMBER | A REVISION

3M™ HM PRESS-FIT HEADER, 8-ROW, HM SERIES

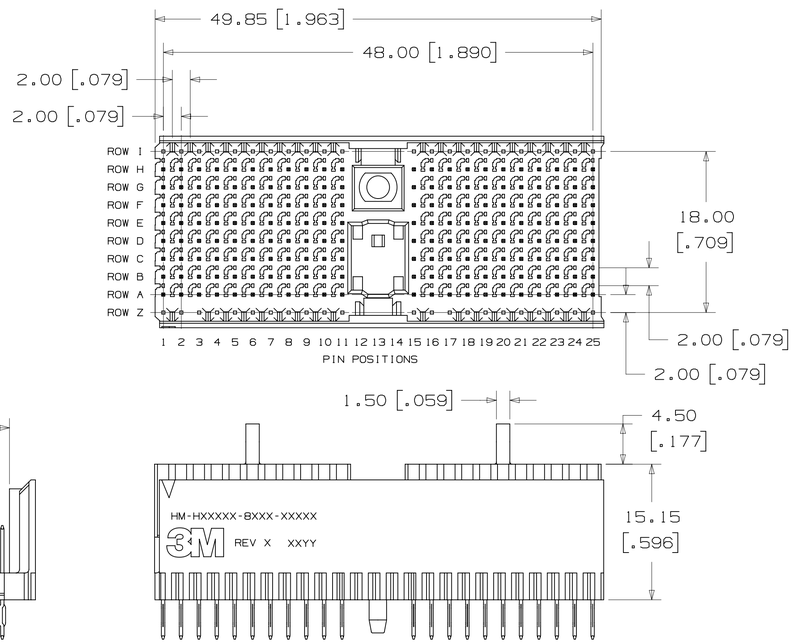
FOR HARD METRIC APPLICATIONS



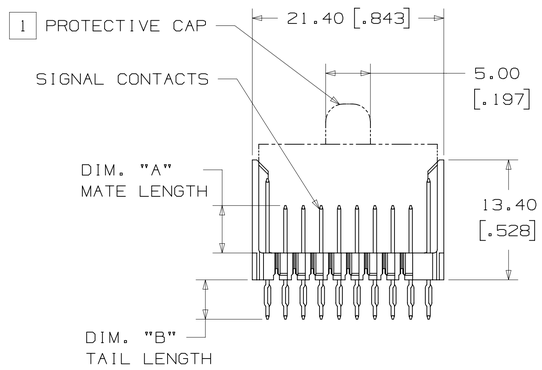
HM-H200E1-8CX1
HM-H244E2-8BX1



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

NOTES

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

REV	ECO	ISSUE DATE AND DESCRIPTION	DRFT	CHKD
A	39815	MAR 28,2012 PRODUCTION RELEASE	JNC	TS

DESIGN REFERENCE | NEXT ASSEMBLY

DRFT: CASTIGLIONE — DATE: MAR 28,2012 — MFG — DATE

CHKD — DATE — APPVL: T. SUNIGA — DATE: MAR 28,2012

DIVISION: Interconnect Solutions — DIVISION CODE: 1SD

DO NOT SCALE DRAWING — SCALE: 3/1

TOLERANCES EXCEPT AS NOTED

INCHES: .0 ± / .00 ± .01 / .000 ± .005 / .0000 ±

THIRD ANGLE PROJECTION

INTERPRET PER ASME Y14.5 - 1994

MILLIMETERS: 0 ± / .0 ± .3 / .00 ± .13 / .000 ±

MAX SURFACE ROUGHNESS: ☐ ALL SURFACES ☐ MARKED ONLY

ANGLES ±

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.

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

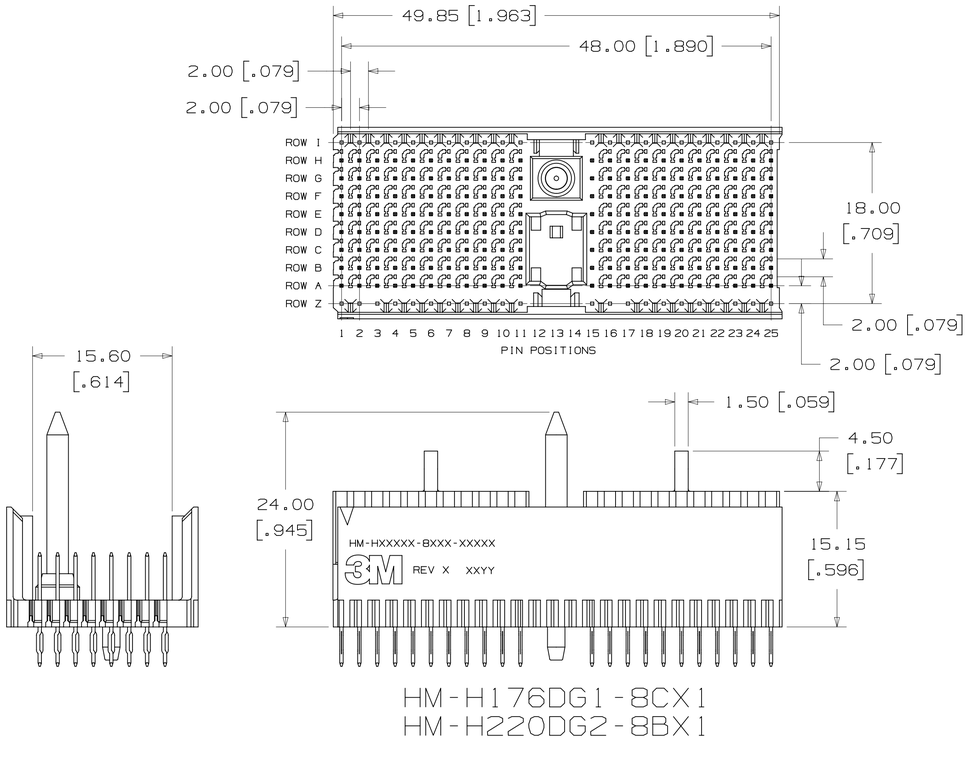
CAGE NUMBER — SIZE: D — DRAWING NO.: 78-5100-2517-0 — REV.: A

MODEL — DET. LISTS ☐ YES ☒ NO — SHT 2 OF 4

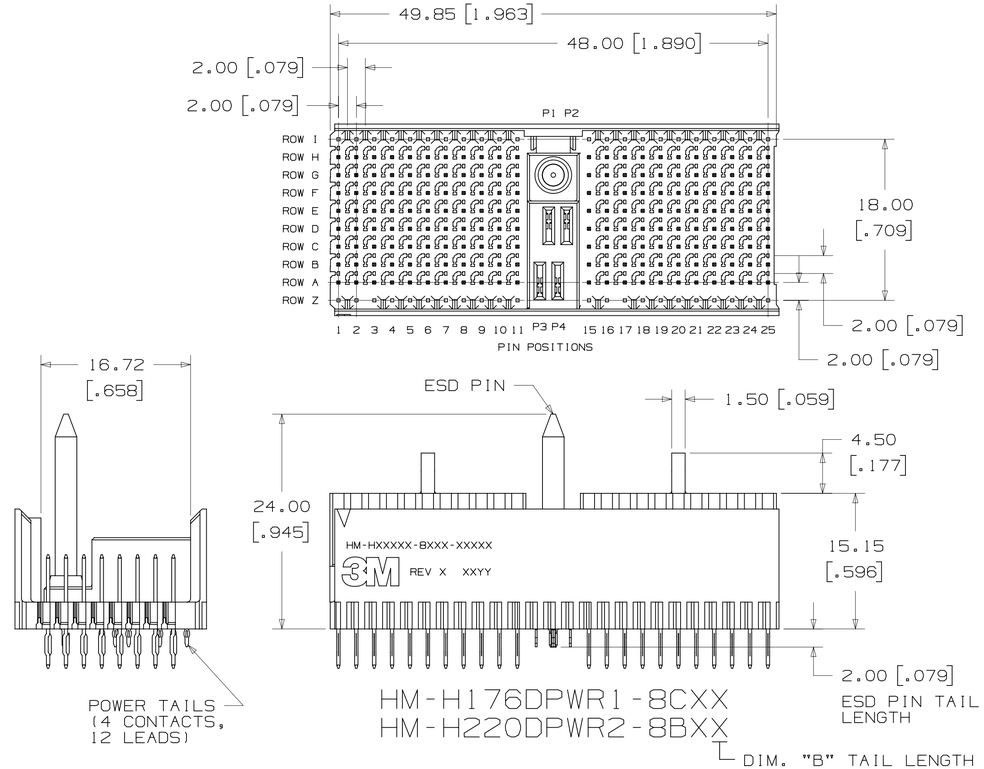
78-5100-2517-0 DRAWING NUMBER — A REVISION

3M™ HM PRESS-FIT HEADER, 8-ROW, HM SERIES

FOR HARD METRIC APPLICATIONS



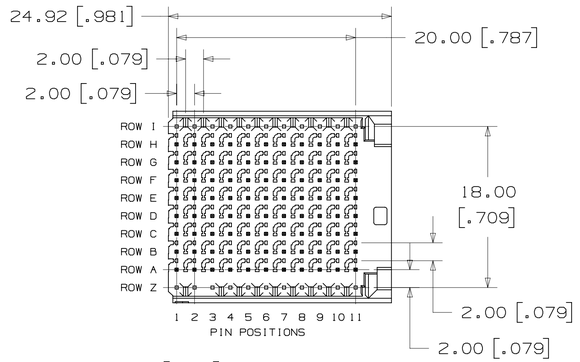
HM-H176DG1-8CX1
HM-H220DG2-8BX1



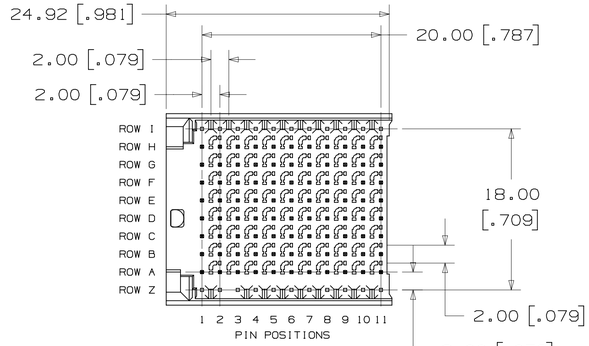
POWER TAILS
(4 CONTACTS,
12 LEADS)

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

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

REV	ECO	ISSUE DATE AND DESCRIPTION	DRFT	CHKD
A	39815	MAR 28,2012 PRODUCTION RELEASE	JNC	TS

DESIGN REFERENCE | NEXT ASSEMBLY

DISTRIBUTION CODES

DRFT: CASTIGLIONE | DATE: MAR 28,2012 | MFG | DATE

CHKD | DATE | APPVL: T. SUNIGA | DATE: MAR 28,2012

DIVISION: Interconnect Solutions | DIVISION CODE: ISD

DO NOT SCALE DRAWING | SCALE 3/1

TOLERANCES EXCEPT AS NOTED
INCHES
.0 ±
.00 ±.01
.000 ±.005
.0000 ±
MILLIMETERS
0 ±
.0 ±.3
.00 ±.13
.000 ±
ANGLES ±

THIRD ANGLE PROJECTION

INTERPRET PER ASME Y14.5 - 1994

MAX SURFACE ROUGHNESS
☐ ALL SURFACES
☐ MARKED ONLY

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.

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

CAGE NUMBER | SIZE D | DRAWING NO. 78-5100-2517-0 | REV. A

MODEL

DET LISTS ☐ YES ☒ NO | SHT 3 OF 4

78-5100-2517-0 (DATA NO. NUMBER) | A (REVISION)

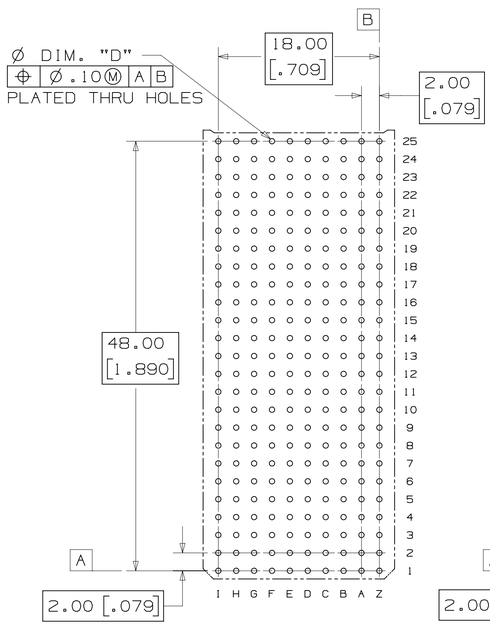
3M™ HM PRESS-FIT HEADER, 8-ROW, HM SERIES

FOR HARD METRIC APPLICATIONS

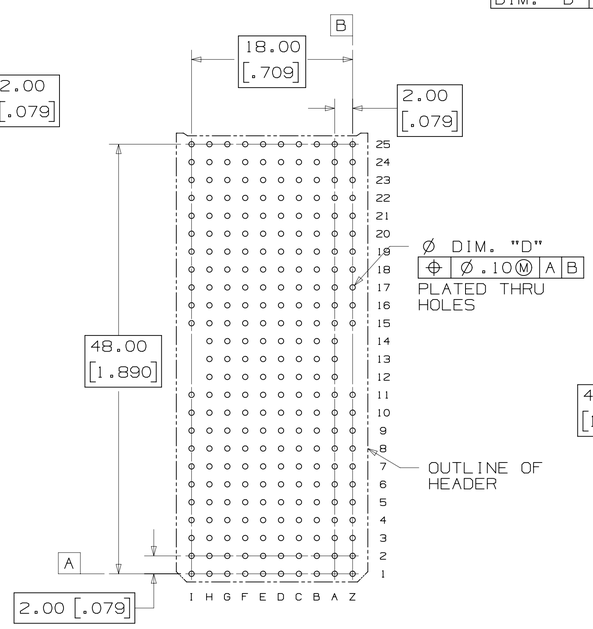
HOLE PLATING TABLE				
HOLE	(FINISHED HOLE)	Cu THICKNESS	SnPb THICKNESS	DRILLED HOLE DIA.
DIM. "B"	.690-.790 [.0270-.0310]	.025-.045 [.0010-.0018]	.008-.018 [.0003-.0007]	.810-.860 [.0320-.0340]
DIM. "D"	.550-.650 [.0217-.0256]	.025-.045 [.0010-.0018]	.008-.018 [.0003-.0007]	.686-.727 [.0270-.0286]

NOTES

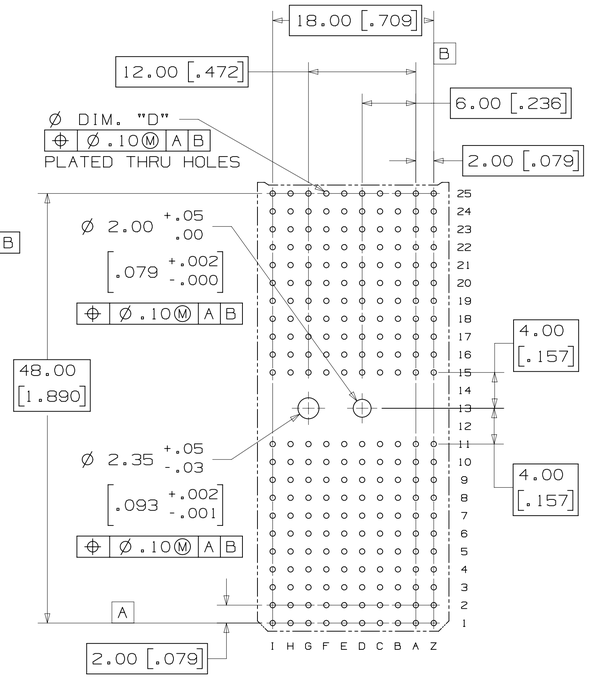
1. ROW I AND Z HOLES ARE ONLY USED FOR HM-HXXXX2-8BX1 STYLE HEADER.



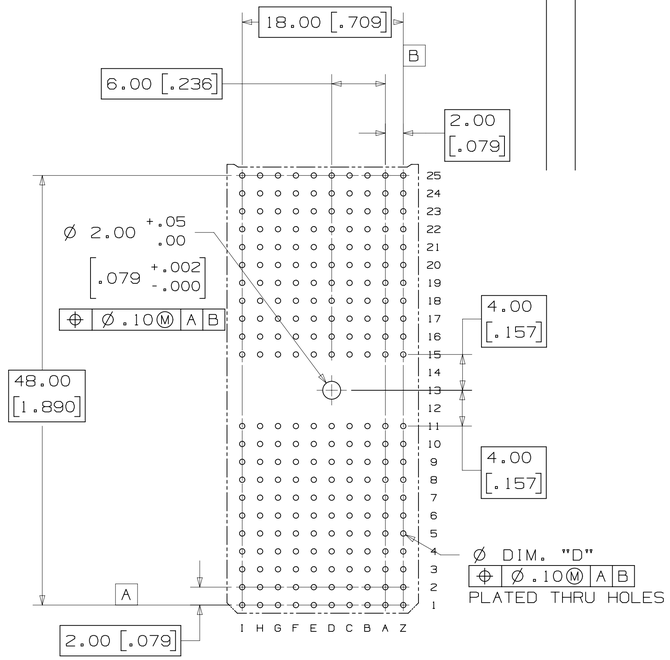
HM-H200E1-8CX1
HM-H244E2-8BX1 [1]



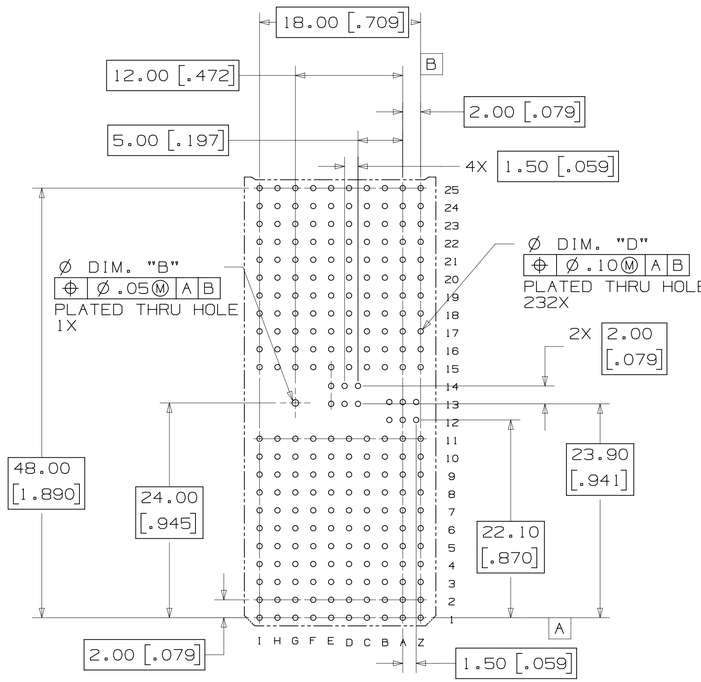
HM-H200DE1-8CX1
HM-H244DE2-8BX1 [1]



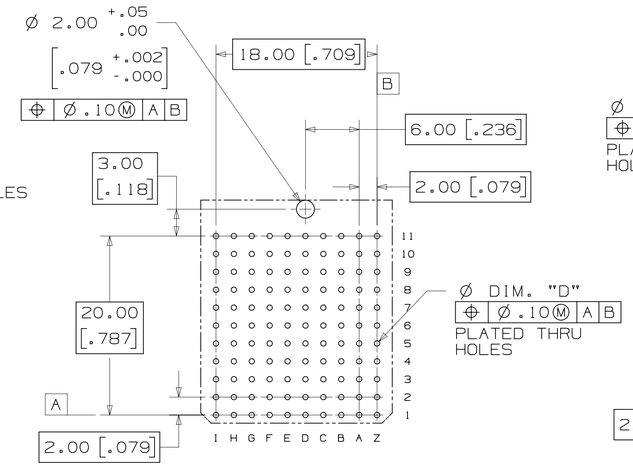
HM-H176D1-8CX1
HM-H220D2-8BX1 [1]



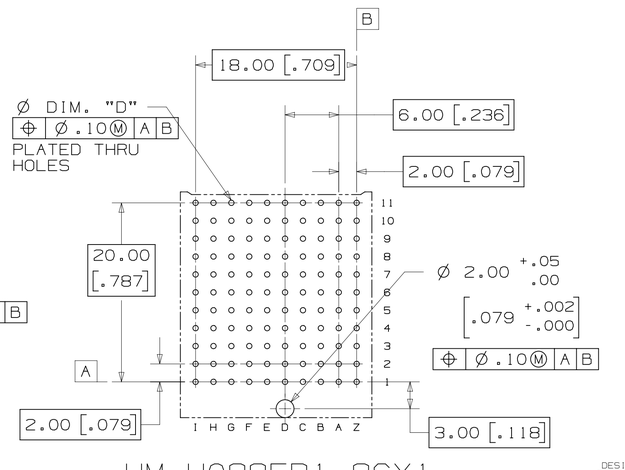
HM-H176DG1-8CX1
HM-H220DG2-8BX1 [1]



HM-H176DPWR1-8CXX
HM-H220DPWR2-8BXX [1]



HM-H088FL1-8CX1
HM-H110FL2-8BX1 [1]



HM-H088FR1-8CX1
HM-H110FR2-8BX1 [1]

RECOMMENDED PCB MOUNTING HOLE PATTERN (VIEWED FROM COMPONENT SIDE)

REV	ECO	ISSUE DATE AND DESCRIPTION	DRFT	CHKD
A	39815	MAR 28,2012 PRODUCTION RELEASE	JNC	TS

DESIGN REFERENCE | NEXT ASSEMBLY

DISTRIBUTION CODES

DRFT CASTIGLIONE DATE MAR 28,2012 MFG DATE

CHKD DATE APPVL T. SUNIGA DATE MAR 28,2012

DIVISION: Interconnect Solutions

DIVISION CODE: ISD

DO NOT SCALE DRAWING | SCALE 3/1

TOLERANCES EXCEPT AS NOTED

INCHES: .0 ± | .00 ± .01 | .000 ± .005 | .0000 ±

THIRD ANGLE PROJECTION

INTERPRET PER ASME Y14.5 - 1994

MILLIMETERS: 0 ± | .0 ± .3 | .00 ± .13 | .000 ±

MAX SURFACE ROUGHNESS: ALL SURFACES / MARKED ONLY

ANGLES ±

© 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.

3M Center, St. Paul, MN 55144

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

CAGE NUMBER | SIZE D | DRAWING NO. 78-5100-2517-0 | REV. A

MODEL

DET LISTS ☐ YES ☒ NO | SHT 4 OF 4

78-5100-2517-0 DRAWING NUMBER | A REVISION

LifeElectronics
Живое партнерство

ООО «ЛайфЭлектроникс» **“LifeElectronics” LLC**

ИНН 7805602321 КПП 780501001 Р/С 40702810122510004610 ФАКБ "АБСОЛЮТ БАНК" (ЗАО) в г.Санкт-Петербурге К/С 30101810900000000703 БИК 044030703

Компания «Life Electronics» занимается поставками электронных компонентов импортного и отечественного производства от производителей и со складов крупных дистрибьюторов Европы, Америки и Азии.

С конца 2013 года компания активно расширяет линейку поставок компонентов по направлению коаксиальный кабель, кварцевые генераторы и конденсаторы (керамические, пленочные, электролитические), за счёт заключения дистрибьюторских договоров

Мы предлагаем:

- *Конкурентоспособные цены и скидки постоянным клиентам.*
- *Специальные условия для постоянных клиентов.*
- *Подбор аналогов.*
- *Поставку компонентов в любых объемах, удовлетворяющих вашим потребностям.*

- *Приемлемые сроки поставки, возможна ускоренная поставка.*
- *Доставку товара в любую точку России и стран СНГ.*
- *Комплексную поставку.*
- *Работу по проектам и поставку образцов.*
- *Формирование склада под заказчика.*

- *Сертификаты соответствия на поставляемую продукцию (по желанию клиента).*
- *Тестирование поставляемой продукции.*
- *Поставку компонентов, требующих военную и космическую приемку.*
- *Входной контроль качества.*
- *Наличие сертификата ISO.*

В составе нашей компании организован Конструкторский отдел, призванный помогать разработчикам, и инженерам.

Конструкторский отдел помогает осуществить:

- *Регистрацию проекта у производителя компонентов.*
- *Техническую поддержку проекта.*
- *Защиту от снятия компонента с производства.*
- *Оценку стоимости проекта по компонентам.*
- *Изготовление тестовой платы монтаж и пусконаладочные работы.*

Тел: +7 (812) 336 43 04 (многоканальный)
Email: org@lifeelectronics.ru

www.lifeelectronics.ru