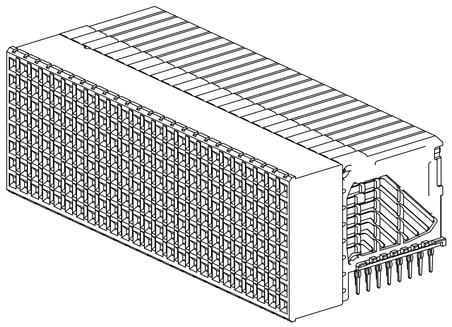
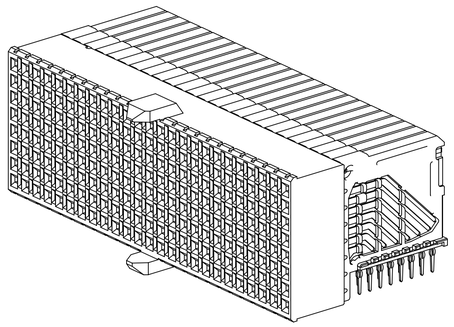
3M™ HM PRESS-FIT SOCKET, 8-ROW, HM SERIES

FOR HARD METRIC APPLICATIONS

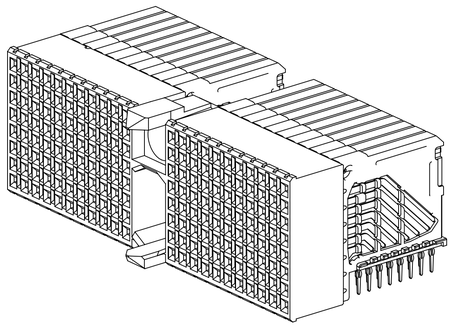
* MODULAR/SCALABLE FORMAT: IEC 61076-101.
* 101 MATED LINES PER LINEAR INCH.
* DUAL BEAM CONTACT CONSTRUCTION FOR HIGH RELIABILITY.
* FOUR INTEGRATED 8.25A POWER BLADES.
* MULTI-PURPOSE CENTER (MPC) FOR KEYING AND GUIDANCE.
* END-TO-END STACKABLE WITH 8 ROW 3M™, HM AND HSHM PRODUCTS.
* INTEGRATED GUIDE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



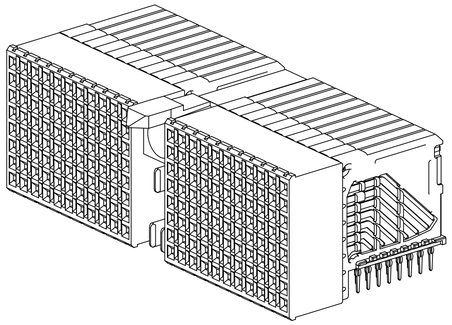
HM-S200E1-8AP1



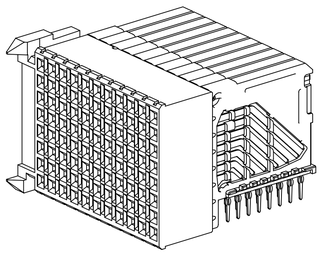
HM-S200DE1-8AP1



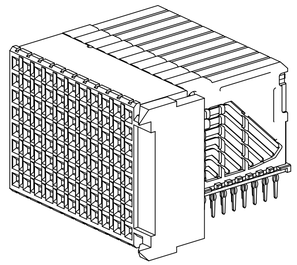
HM-S176D1-8AP1



HM-S176DPWR1-8AP1



HM-S088FL1-8AP1



HM-S088FR1-8AP1

ORDERING INFORMATION

HM-SXXXXX1-8AP1-XXXXX

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.

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.

[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 X 10^4 MΩ @ 100 V_{DC}
WITHSTANDING VOLTAGE: 750V_{RMS}

[3] ENVIRONMENTAL:

TEMPERATURE RATING: -55°C TO 125°C

UL FILE NO: E68080

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

DIMENSIONS: MM [INCHES]

REV	ECO	ISSUE DATE AND DESCRIPTION	DRFT	CHKD
A	39778	MAR 23,2012 PRODUCTION RELEASE	JNC	TS

DESIGN REFERENCE | NEXT ASSEMBLY | DISTRIBUTION CODES

DRFT CASTIGLIONE DATE MAR 23,2012 | MFG | DATE
CHKD | DATE | APPV T. SUNIGA DATE MAR 26,2012

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

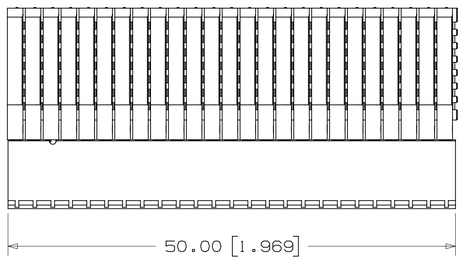
TITLE: HM PRESS-FIT 8-ROW SOCKET CONNECTORS, HM SERIES

CAGE NUMBER | SIZE D | DRAWING NO. 78-5100-2516-2 | REV. A
MODEL | DET. LISTS ☐ YES ☒ NO | SHT 1 OF 4

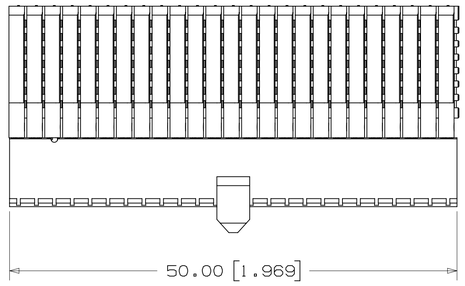
78-5100-2516-2 A
DRAWING NUMBER REVISION

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

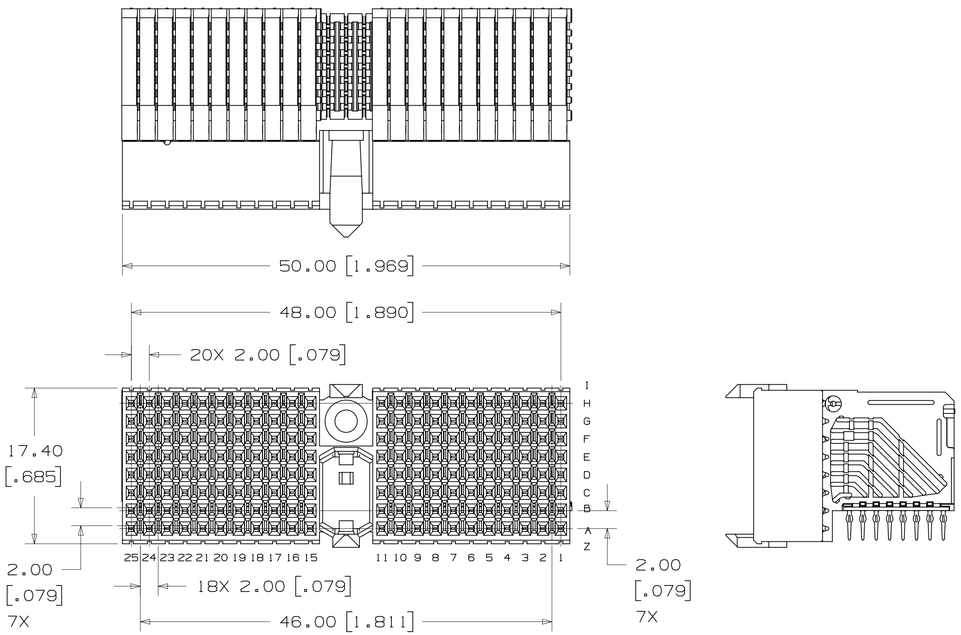
FOR HARD METRIC APPLICATIONS



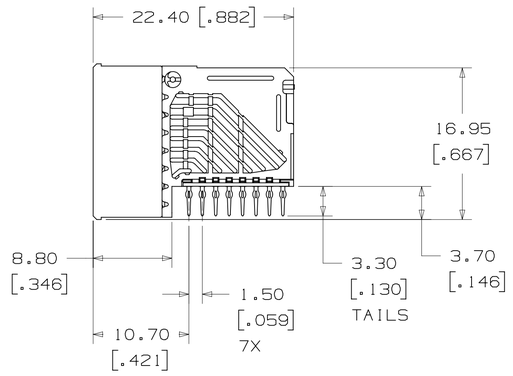
HM-S200E1-8AP1



HM-S200DE1-8AP1



HM-S176D1-8AP1



TYPICAL SIDE VIEW
DIMENSIONS FOR THE
SOCKETS ON THIS DRAWING

REV	ECO	ISSUE DATE AND DESCRIPTION	DRFT	CHKD
A	39778	MAR 23,2012 PRODUCTION RELEASE	JNC	TS

DESIGN REFERENCE NEXT ASSEMBLY

DISTRIBUTION CODES

DRFT: CASTIGLIONE DATE: MAR 23,2012 MFG DATE

CHKD DATE APPVL: T. SUNIGA DATE: MAR 26,2012

DIVISION: Interconnect Solutions

DIVISION CODE: ISD

DO NOT SCALE DRAWING

SCALE: 3/1

TOLERANCES EXCEPT AS NOTED

INCHES
.0 ± .01
.00 ± .005
.000 ± .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 ±

TITLE: HM PRESS-FIT 8-ROW SOCKET CONNECTORS, HM SERIES

CAGE NUMBER | SIZE: D | DRAWING NO.: 78-5100-2516-2 | REV.: A

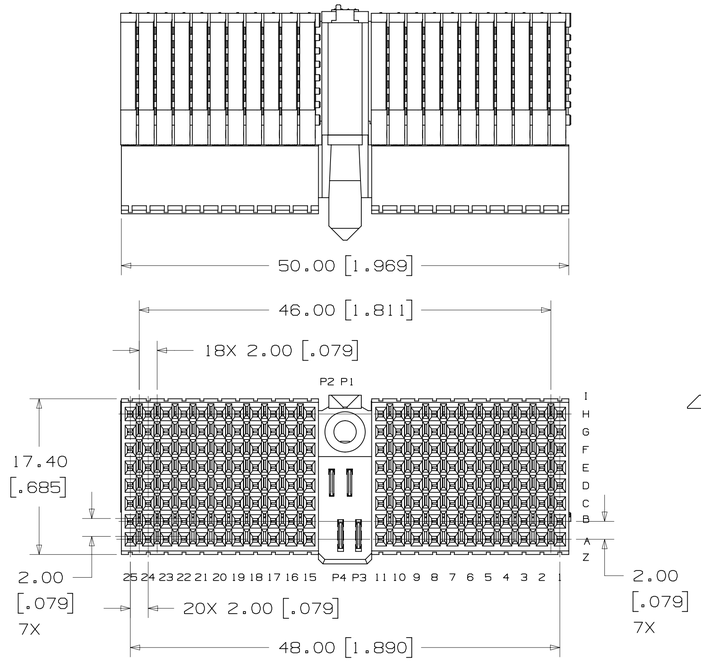
MODEL

DET. LISTS ☐ YES ☒ NO

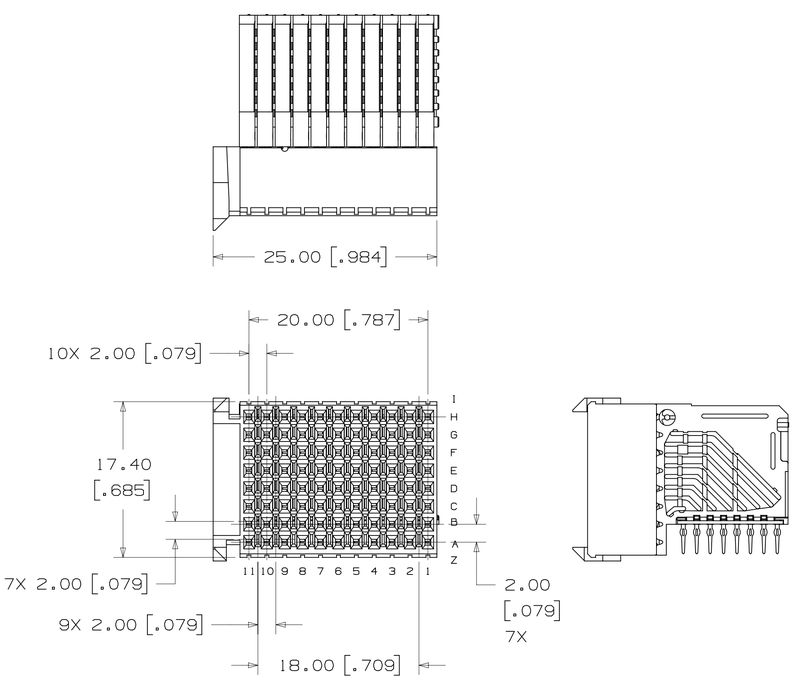
78-5100-2516-2 (DRAWING NUMBER) A (REVISION)

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

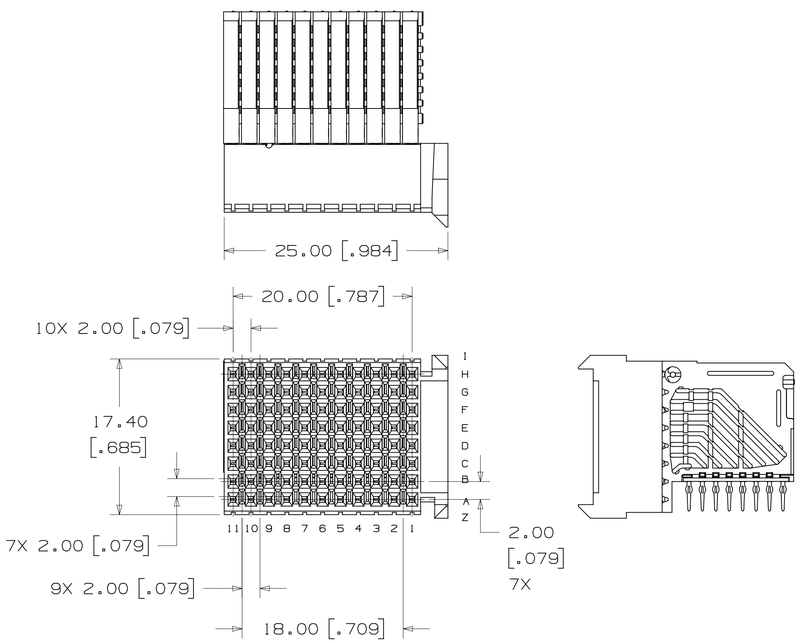
FOR HARD METRIC APPLICATIONS



HM-S176DPWR1-8AP1



HM-S088FL1-8AP1



HM-S088FR1-8AP1

A	39778	MAR 23,2012 PRODUCTION RELEASE		JNC	TS
REV	ECO	ISSUE DATE AND DESCRIPTION		DRFT	CHKD

DESIGN REFERENCE | NEXT ASSEMBLY

DRFT: CASTIGLIONE — DATE: MAR 23,2012 — MFG — DATE

CHKD — DATE — APPVL: T. SUNIGA — DATE: MAR 26,2012

DISTRIBUTION CODES

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 ±

THIRD ANGLE PROJECTION

INTERPRET PER ASME Y14.5 - 1994

MAX SURFACE ROUGHNESS: ☐ ALL SURFACES ☐ MARKED ONLY

ANGLES ±

TITLE: HM PRESS-FIT 8-ROW SOCKET CONNECTORS, HM SERIES

CAGE NUMBER — SIZE: D — DRAWING NO.: 78-5100-2516-2 — REV.: A

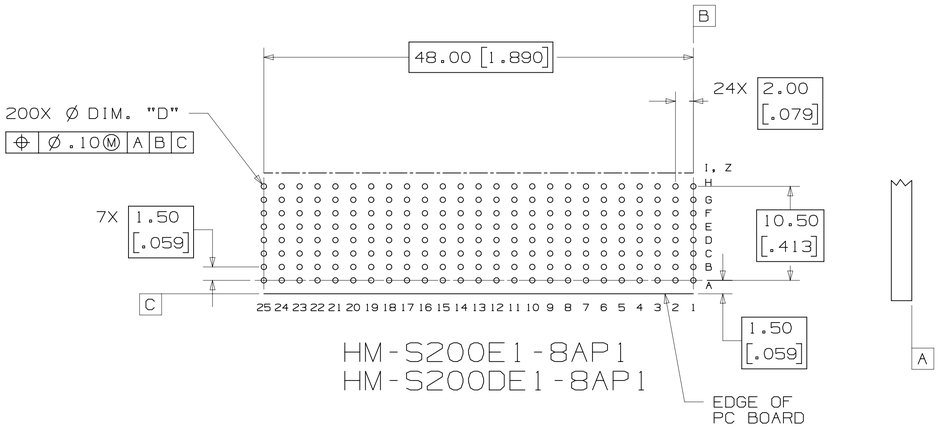
MODEL

DET. LISTS ☐ YES ☒ NO — SHT 3 OF 4

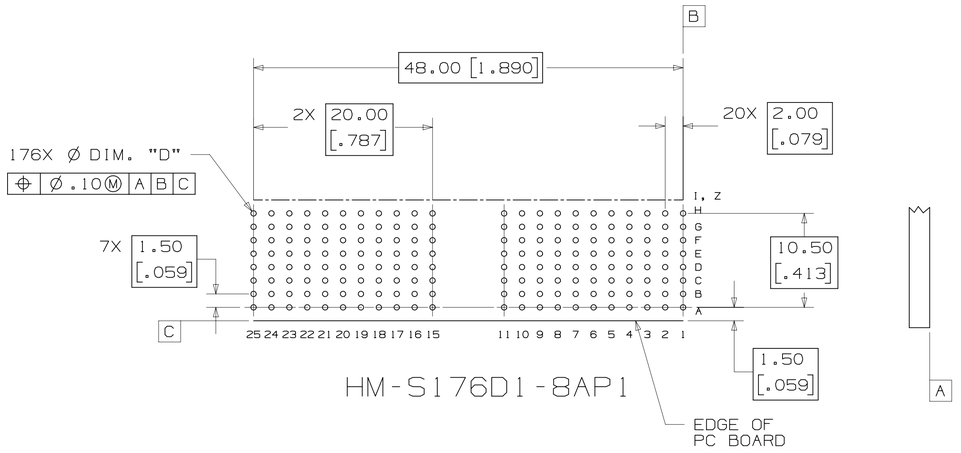
78-5100-2516-2 | DRAWING NUMBER | A | REVISION

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

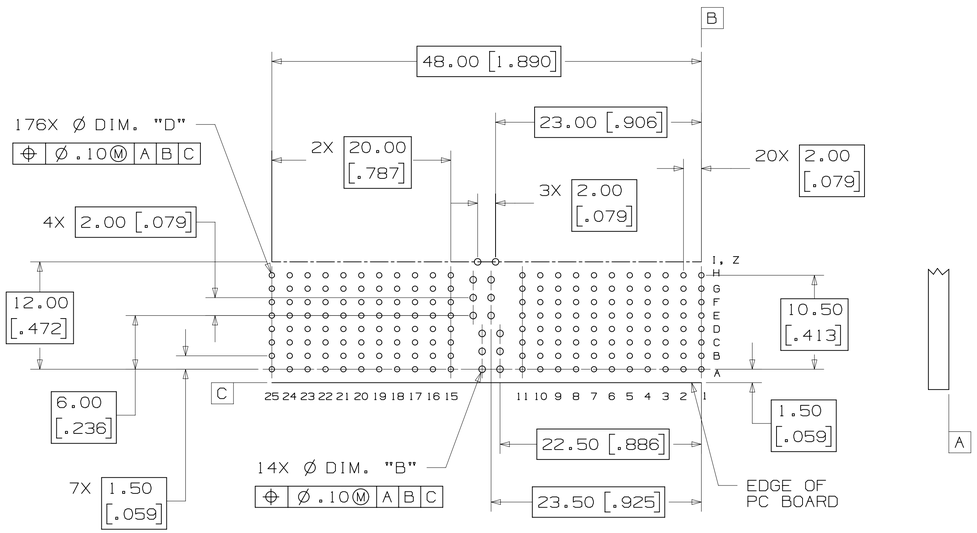
FOR HARD METRIC APPLICATIONS



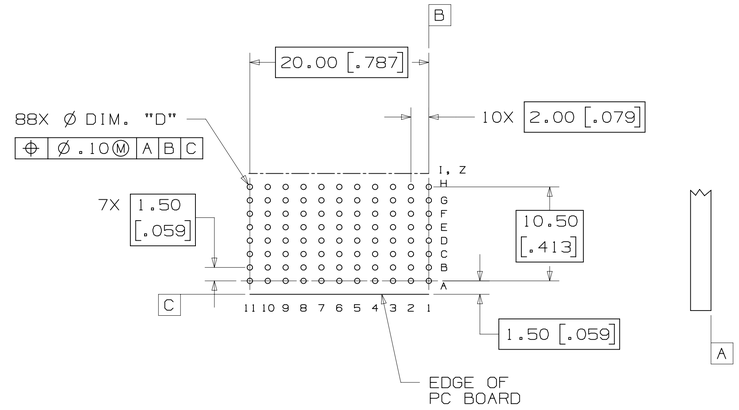
HM-S200E1-8AP1
HM-S200DE1-8AP1



HM-S176D1-8AP1



HM-S176DPWR1-8AP1



HM-S088FL1-8AP1
HM-S088FR1-8AP1

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]

REV	ECO	ISSUE DATE AND DESCRIPTION	DRFT	CHKD
A	39778	MAR 23,2012 PRODUCTION RELEASE	JNC	TS

DESIGN REFERENCE | NEXT ASSEMBLY

DISTRIBUTION CODES

DRFT: CASTIGLIONE | DATE: MAR 23,2012 | MFG | DATE

CHKD | DATE | APPVL: T. SUNIGA | DATE: MAR 26,2012

DIVISION: Interconnect Solutions | DIVISION CODE: 150

DO NOT SCALE DRAWING | SCALE: 3/1

THIRD ANGLE PROJECTION

INTERPRET PER ASME Y14.5 - 1994

MAX SURFACE ROUGHNESS: ☐ ALL SURFACES ☐ MARKED ONLY

TOLERANCES EXCEPT AS NOTED

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

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

ANGLES ±

TITLE: HM PRESS-FIT 8-ROW SOCKET CONNECTORS, HM SERIES

CAGE NUMBER | SIZE: D | DRAWING NO.: 78-5100-2516-2 | REV.: A

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

78-5100-2516-2 DRAWING NUMBER | A REVISION

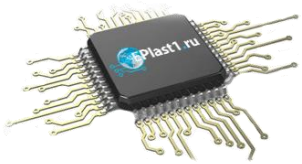
Компания «ЭлектроПласт» предлагает заключение долгосрочных отношений при поставках импортных электронных компонентов на взаимовыгодных условиях!

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

Телефон: 8 (812) 309 58 32 (многоканальный)
Факс: 8 (812) 320-02-42
Электронная почта: org@eplast1.ru
Адрес: 198099, г. Санкт-Петербург, ул. Калинина, дом 2, корпус 4, литера А.