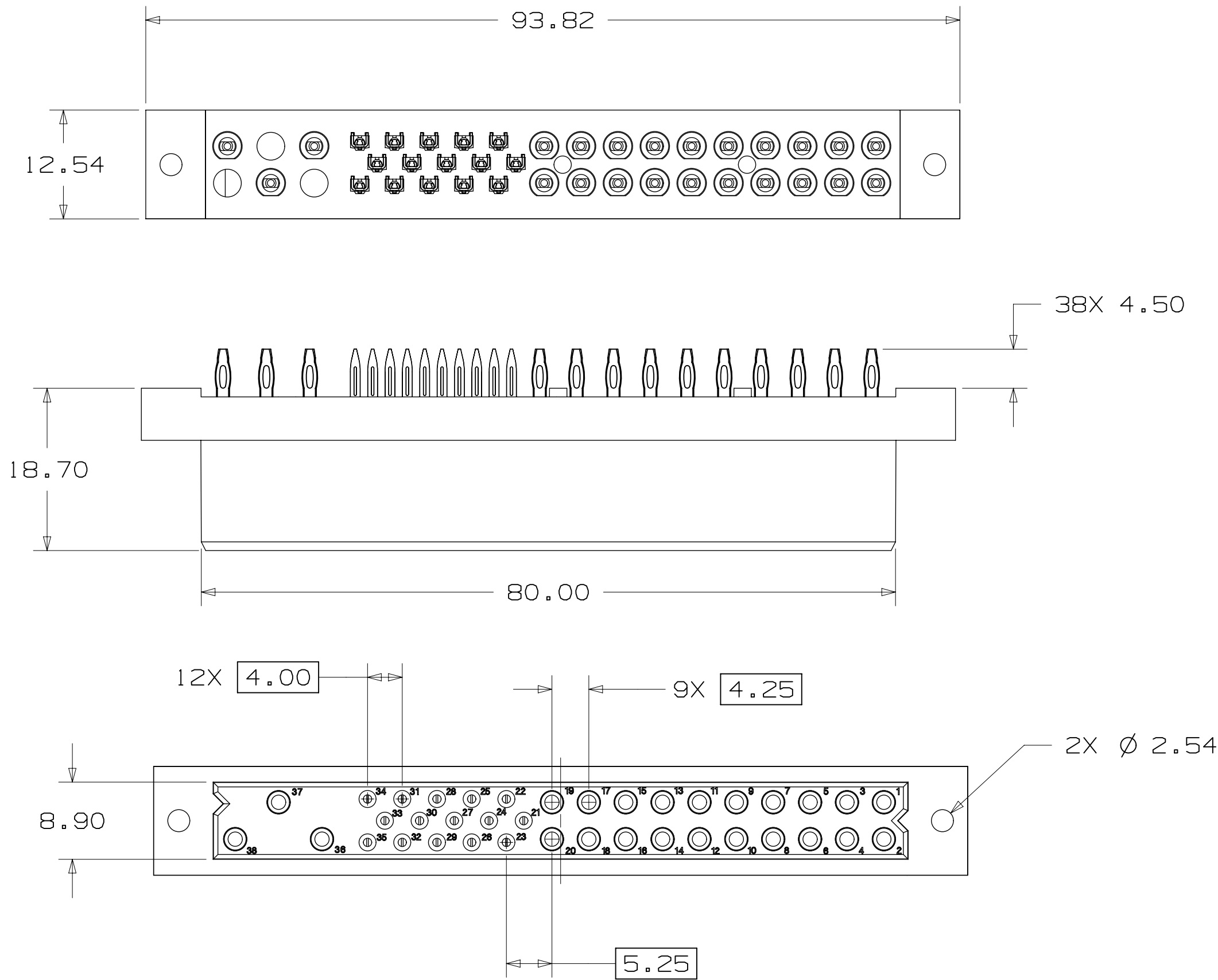


3M™ POWER BACKPLANE FEMALE CONNECTOR FOR CPCI APPLICATIONS, 38 POSITION



ELECTRICAL CHARACTERISTICS:

ELECTRICAL FEATURES:
INSULATION RESISTANCE - 10 OHMS

INITIAL CONTACT RESISTANCE:
POWER CONTACT ----- 0.7 MILLIOHMS MAX
SIGNAL CONTACT ----- 4.0 MILLIOHMS MAX

VOLTAGE PROOF:
POWER 1 THRU 20 ----- 1500 VRMS
POWER 36,37,38 ----- 3000 VRMS
POWER 21 THRU 35 ----- 1000 VRMS

CURRENT RATING:
DC OUTPUT POWER 1 THRU 20 -- 16 AMPS
INPUT POWER 36,37,38 ----- 23 AMPS
SIZE 22 SIGNAL CONTACTS ----- 2 AMPS
MINIMUM CREEPAGE DISTANCE [MM]
POWER 38 TO 36 ----- 3.2
POWER 37 TO 36 ----- 3.2
POWER 38 TO SIGNAL ---- 6.4
POWER 37 TO SIGNAL ---- 6.4
POWER 38 TO 37 ----- 2.5
POWER 36 TO SIGNAL ---- 2.0

ENVIRONMENTAL:
TEMPERATURE RATING: -55 TO +125C

- NOTES
1. MATERIAL:
HOUSING: GLASS FILLED
POYESTER (PBT)
CONTACT: COPPER ALLOY,
GOLD PLATING
 2. PLATING:
-ES: FINISH: 0.76um MIN Au
UNDERCOAT: 1.27um MIN Ni

-G: FINISH: 0.25um MIN Au
UNDERCOAT: 1.27um MIN Ni

-DA: FINISH: 0.08um MIN Au
UNDERCOAT: 1.27um MIN Ni
 3. REGULATORY INFORMATION:
VISIT 3M.com/regs OR CONTACT
YOUR 3M REPRESENTATIVE TO FIND
THE RoHS COMPLIANCE STATUS OF
THE 3M PART YOU ARE INTERESTED
IN.
 4. IN THE EVENT OF CONFLICT
BETWEEN THIS DATA AND THAT
CONTAINED IN THE PRODUCT
SPECIFICATION, THE PRODUCT
SPECIFICATION TAKES PRECEDENT.
 5. FOR MATING PRODUCT USE:
3P01-100X-XX CPCI POWER RIGHT
ANGLE MALE CONNECTOR 38 POS.


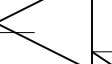

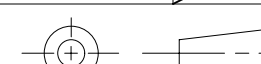
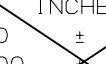
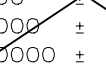

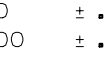

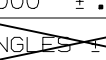
RECOMMENDED HOLE PATTERN
(COMPONENT SIDE OF BOARD SHOWN)
PCB THICKNESS: 3.20 MINIMUM

3M™ ELECTRONICS MATERIALS 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

| PART NUMBER | |
|------------------|-------------|
| PART DESCRIPTION | TAIL TYPE |
| 3P02-1001-XX | PRESS-FIT |
| 3P02-1002-XX | SOLDER TAIL |

DIMENSIONS: MM

| DESIGN REFERENCE | | NEXT ASSEMBLY | | REV | ECO | ISSUE DATE AND DESCRIPTION | | DRFT | CHKD |
|---|--|---|--|---|-------------|----------------------------|-------------|-----------|-------------|
| ACCESS CODES | | | | DRP | CASTIGLIONE | DATE | DEC 04,2014 | MFG | DATE |
| | | | | CHKD | | DATE | DEC 04,2014 | APPRV | DATE |
| | | | | | | | | T. SUNIGA | DEC 04,2014 |
| DIVISION | | DIVISION CODE | | | | | | | |
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| THIRD ANGLE PROJECTION | | | |  | | | | | |
| INTERPRET PER ASME Y14.5 - 2009 | | | |  | | | | | |
| MAX SURFACE ROUGHNESS | | | |  | | | | | |
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3M™ POWER BACKPLANE FEMALE CONNECTOR FOR CPCI APPLICATIONS, 38 POSITION

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3M Electronics Materials Solutions Division
6801 River Place Blvd.
Austin, TX 78726-9000
1-800-225-5373
www.3M.com/interconnect

DESIGN REFERENCE

NEXT ASSEMBLY

REV

ECO

ISSUE DATE AND DESCRIPTION

DRFT

CHKD

3M Center
St. Paul,
MN 55144

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TITLE

3P02-100X-XX CPCI
POWER BACKPLANE,
FEMALE CONNECTOR

CAGE NUMBER

SIZE

DRAWING NO.

REV.

MODEL

DET

LISTS

YES

NO

SHT

2

OF

2

DO NOT SCALE DRAWING

THIRD ANGLE PROJECTION

MAX SURFACE ROUGHNESS

MARKED ONLY

SCALE

INTERPRET PER ASME Y14.5 - 2009

INCHES

MILLIMETERS

ANGLES

TOLERANCES EXCEPT AS NOTED

INCHES

MILLIMETERS

ANGLES

DIVISION

DIVISION CODE

EMSD

EMSD

REV

ECO

ISSUE DATE AND DESCRIPTION

DRFT

CHKD

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TITLE

3P02-100X-XX CPCI
POWER BACKPLANE,
FEMALE CONNECTOR

CAGE NUMBER

SIZE

DRAWING NO.

REV.

MODEL

DET

LISTS

YES

NO

SHT

2

OF

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Imaged: D.4 Central TimeB/1/2017UTC Offset

Mouser Electronics

Authorized Distributor

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3M:

[3P02-1001-ES](#)