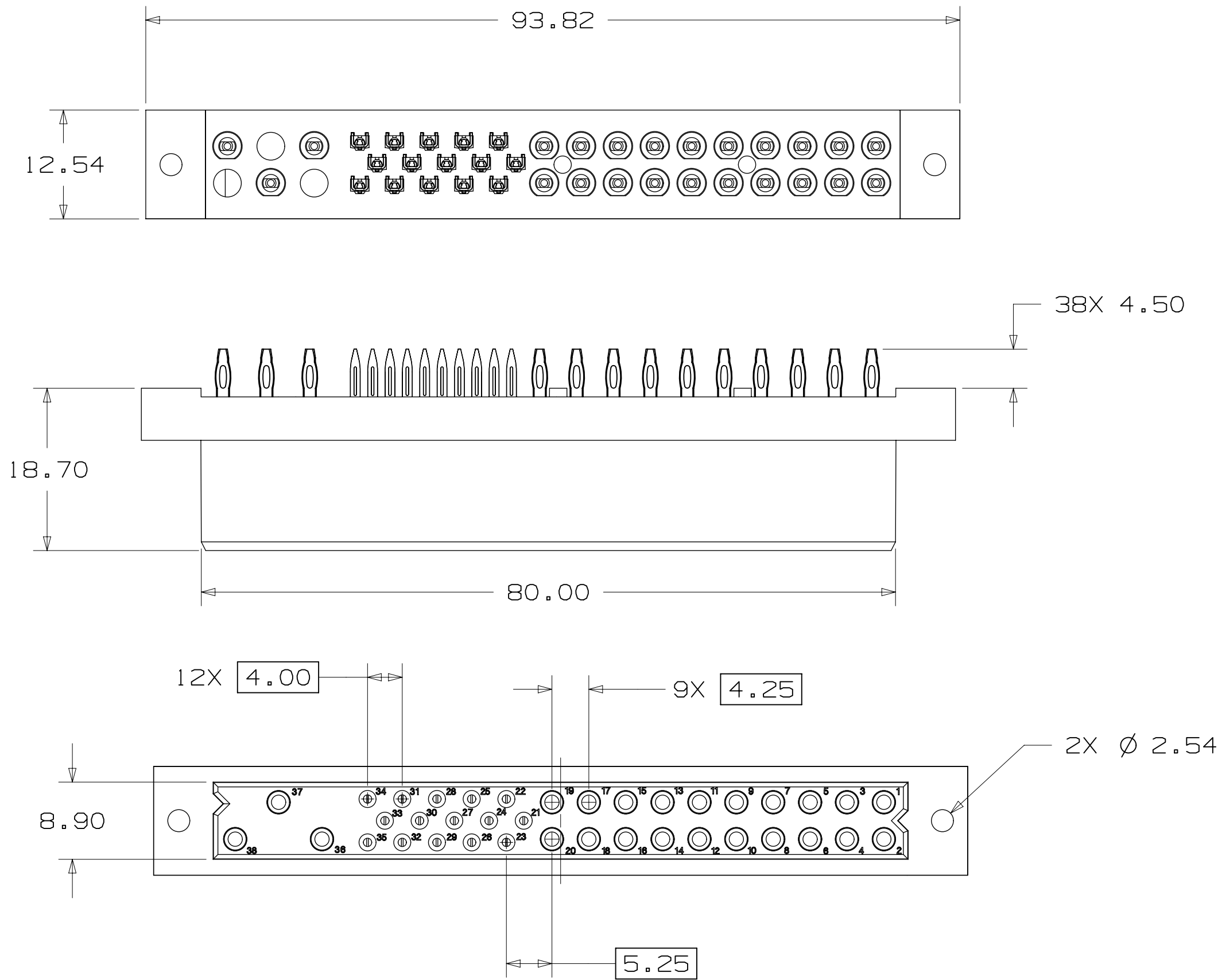


3M™ POWER BACKPLANE FEMALE CONNECTOR FOR CPCI APPLICATIONS, 38 POSITION



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>

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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
XREF		XREF		CHKD	CHKD	DATE	DATE	DATE	DATE
DIVISION		DIVISION CODE		CASTIGLIONE		DEC 04,2014	MFG	DEC 04,2014	DEC 04,2014
DO NOT SCALE DRAWING		SCALE		TOLERANCES EXCEPT AS NOTED		INCHES		MILLIMETERS	
THIRD ANGLE PROJECTION		INTERPRET PER ASME Y14.5 - 2009		MAX SURFACE ROUGHNESS		SURFACES		MARKED ONLY	
TITLE		3P02-100X-XX CPCI POWER BACKPLANE, FEMALE CONNECTOR		CAGE NUMBER		DRAWING NO.		REV.	
MODEL		CPCI		DET		YES		SHT 1 OF 2	

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

Regulatory: For regulatory information about this product, visit 3M.com/regs or contact your 3M representative.

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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

D		57812		AUG 25, 2016		JNC		TS	
				AUG 25, 2016 ADD WARRANTY INFO					
				DEC 04, 2014 REDRAWN IN NX & ADD MIN PCB THICKNESS					
DESIGN REFERENCE		NEXT ASSEMBLY		REV	ECO	ISSUE DATE AND DESCRIPTION		DRAFT	CHKD
				DRW	CASTiglIONE	DATE	DEC 04, 2014	MFG	DATE
				CHKD		DATE		APPROV	
						T. SUNIGA		DATE	DEC 04, 2014
DIVISION		DIVISION CODE		© 3M COPYRIGHT 2017					
		EMSD				This document and the information it contains are 3M property and may not be reproduced or further distributed without the express 3M permission, or used or disclosed other than for 3M authorized purposes. All rights reserved.			
DO NOT SCALE DRAWING		TOLERANCES EXCEPT AS NOTED							
		INCHES		TITLE		3P02-100X-XX CPC I POWER BACKPLANE, FEMALE CONNECTOR			
THIRD ANGLE PROJECTION		.0 .00 ± .000 ± .000 ±		CAGE NUMBER		SIZE DRAWING NO. D 78-5100-2372-0			
INTERPRET PER ASME Y14.5 - 2009		MILLIMETERS		.0 .00 ± .00 ± .20 .000 ± .100		REV.		D	
MAX. SURFACE ROUGHNESS		.0 .00 ± .000 ±		MODEL		DET. LISTS ☒ YES ☒ NO			
☒ MARKED SURFACES ☐ MARKED ONLY		ANGLE		cPCI		SHT 2 OF 2			

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