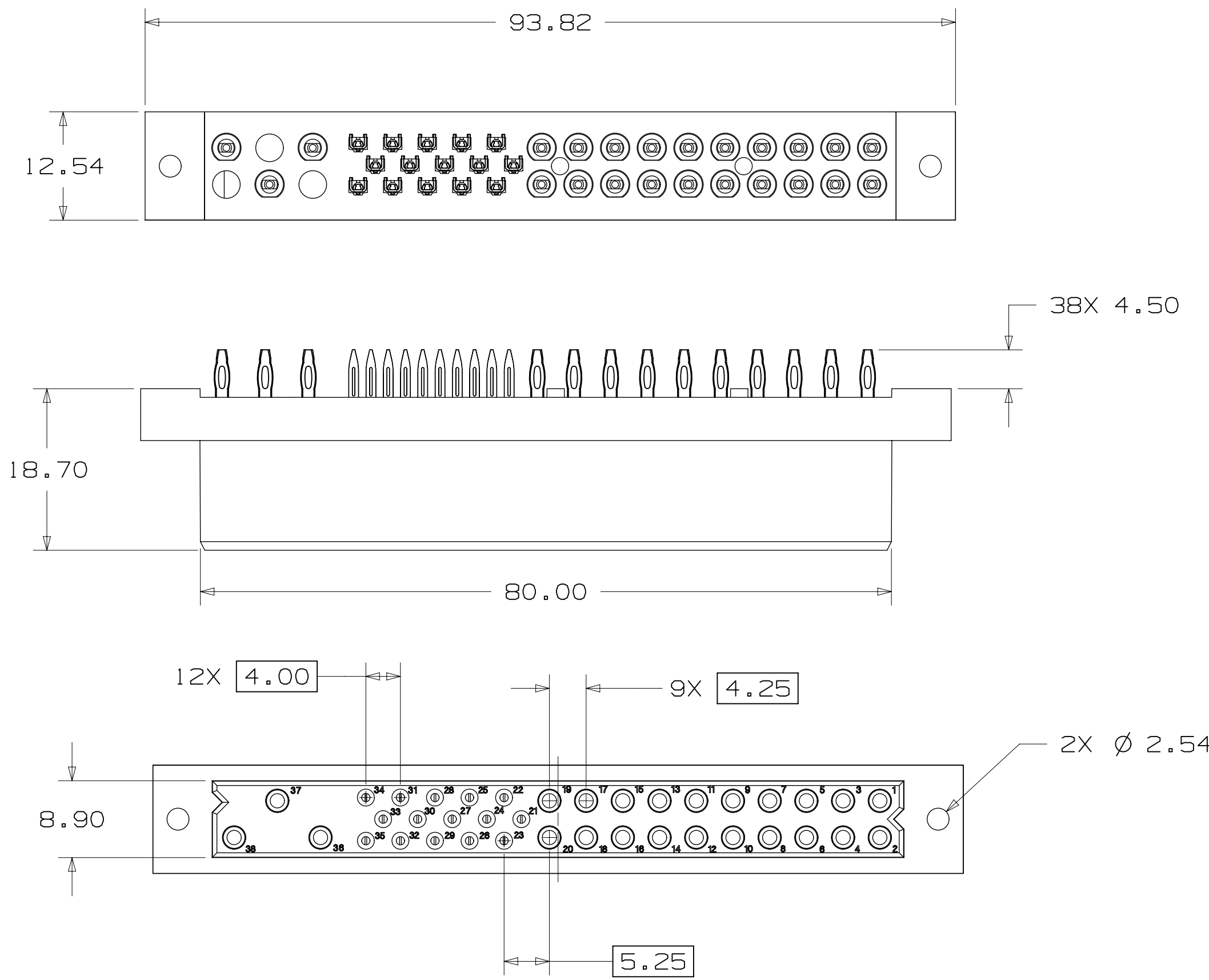


3M™ POWER BACKPLANE FEMALE CONNECTOR FOR CPCI APPLICATIONS, 38 POSITION



ELECTRICAL CHARACTERISTICS:

ELECTRICAL FEATURES:  
 INSULATION RESISTANCE - 10 OHMS

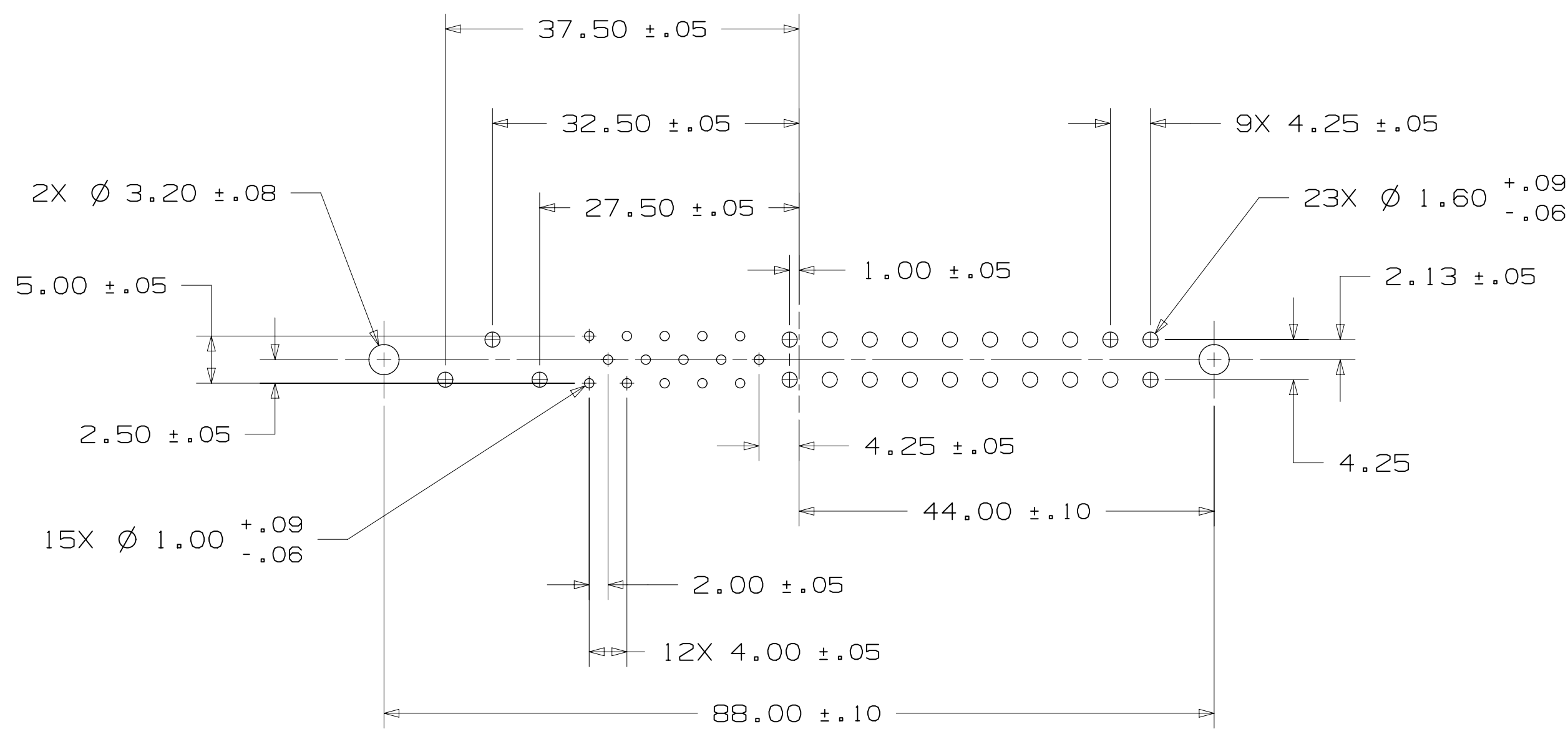
INITIAL CONTACT RESISTANCE:  
 POWER CONTACT ----- 0.7 MILLIOHMS MAX  
 SIGNAL CONTACT ----- 4.0 MILLIOHMS MAX

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
- MATERIAL:  
 HOUSING: GLASS FILLED POYESTER (PBT)  
 CONTACT: COPPER ALLOY, GOLD PLATING
  - 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
  - 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.
  - IN THE EVENT OF CONFLICT BETWEEN THIS DATA AND THAT CONTAINED IN THE PRODUCT SPECIFICATION, THE PRODUCT SPECIFICATION TAKES PRECEDENT.
  - 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
				AUG 25, 2016 ADD WARRANTY INFO	JNC	TS
				DEC 04, 2014 REDRAWN IN NX & ADD MIN PCB THICKNESS		
APPROVED	DATE	APPROVED	DATE	APPROVED	DATE	APPROVED
CHKD	DATE	APPRV	DATE	APPRV	DATE	APPRV
		T. SUNIGA	DEC 04, 2014			
DIVISION CODE		EMSD				
DO NOT SCALE DRAWING		TOLERANCES EXCEPT AS NOTED				
THIRD ANGLE PROJECTION		INCHES				
INTERPRET PER ASME Y14.5 - 2009		MILLIMETERS				
MAX SURFACE ROUGHNESS		0 ± 2				
UNFINISHED SURFACES		.00 ± .20				
MARKED ONLY		.000 ± .100				
ANGLES		0 ± 3				
TITLE		3M Center St. Paul, MN 55144				
TITLE		© 3M COPYRIGHT 2017 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		3P02-100X-XX CPCI POWER BACKPLANE, FEMALE CONNECTOR				
CAGE NUMBER	SIZE	DRAWING NO.	REV.			
D		78-5100-2372-0	D			
MODEL	CPCI		DEF	LISTS YES X NO SHT 1 OF 2		

78-5100-2372-0 DRAWING NUMBER  
 REV 1  
 D  
 1/2017UTC Off/ret  
 Standard TimeB/1/2017UTC Off/ret  
 D

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

**Regulatory:** For regulatory information about this product, visit [3M.com/regs](http://3M.com/regs) or contact your 3M representative.


**Technical Information:** The technical information, recommendations and other statements contained in this document are based upon tests or experience that 3M believes are reliable, but the accuracy or completeness of such information is not guaranteed.

**Product Use:** Many factors beyond 3M's control and uniquely within user's control can affect the use and performance of a 3M product in a particular application. Given the variety of factors that can affect the use and performance of a 3M product, user is solely responsible for evaluating the 3M product and determining whether it is fit for a particular purpose and suitable for user's method of application.

**Warranty, Limited Remedy, and Disclaimer:** Unless an additional warranty is specifically stated on the applicable 3M product packaging or product literature, 3M warrants that each 3M product meets the applicable 3M product specification at the time 3M ships the product. 3M MAKES NO OTHER WARRANTIES OR CONDITIONS, EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OR CONDITION OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR ANY IMPLIED WARRANTY OR CONDITION ARISING OUT OF A COURSE OF DEALING, CUSTOM OR USAGE OR TRADE. If the 3M product does not conform to this warranty, then the sole and exclusive remedy is, at 3M's option, replacement of the 3M product or refund of the purchase price.

**Limitation of Liability:** Except where prohibited by law, 3M will not be liable for any loss or damage arising from the 3M product, whether direct, indirect, special, incidental or consequential, regardless of the legal theory asserted, including warranty, contract, negligence or strict liability.

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

DESIGN REFERENCE	NEXT ASSEMBLY	REV	ECO	ISSUE DATE AND DESCRIPTION	DRFT	CHKD
		D	57812	AUG 25, 2016 AUG 25, 2016 ADD WARRANTY INFO DEC 04, 2014 REDRAWN IN INX & ADD MIN PCB THICKNESS	JNC	TS
APPROVED	DATE	DRFT	DATE	MFG	DATE	
CHKD	DATE	APPRV	DATE		DATE	
		T. SUNIGA	DEC 04, 2014		DEC 04, 2014	
DIVISION		DIVISION CODE		 © 3M COPYRIGHT 2017 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.		
DO NOT SCALE DRAWING		TOLERANCES EXCEPT AS NOTED		INCHES .00 ± .000 ± .0000 ±		
THIRD ANGLE PROJECTION		MILLIMETERS		0 ± 2 .0 ± .3 .00 ± .20 .000 ± .100		
INTERPRET PER ASME Y14.5 - 2009		MAX SURFACE ROUGHNESS		.00 ± .100 .00 ± .100 .000 ± .100		
<input checked="" type="checkbox"/> MARKED ONLY		MODEL CPCI		CAGE NUMBER D 78-5100-2372-0		REV. D

78-5100-2372-0 DRAWING NUMBER  
 1/2017UTC Off/ret  
 Standard TimeB/1/2017UTC Off/ret