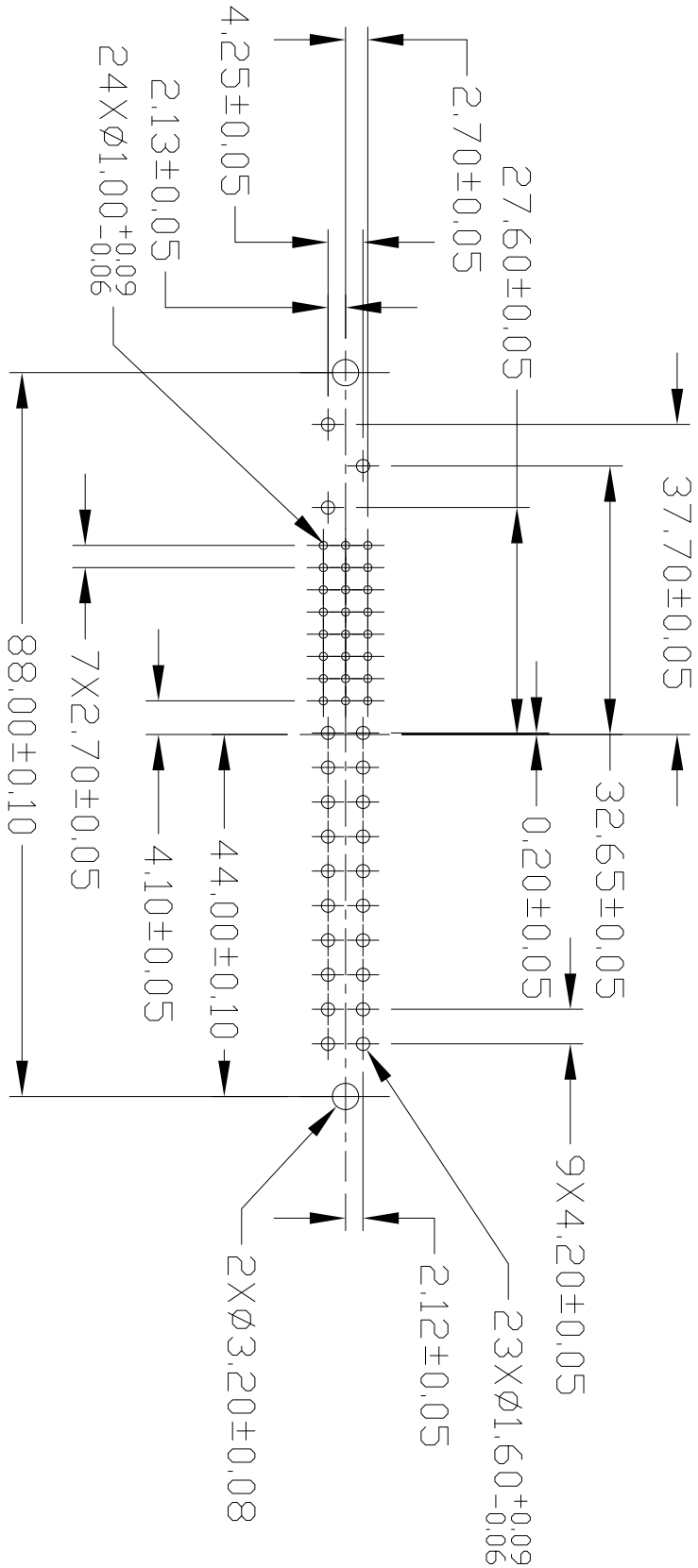
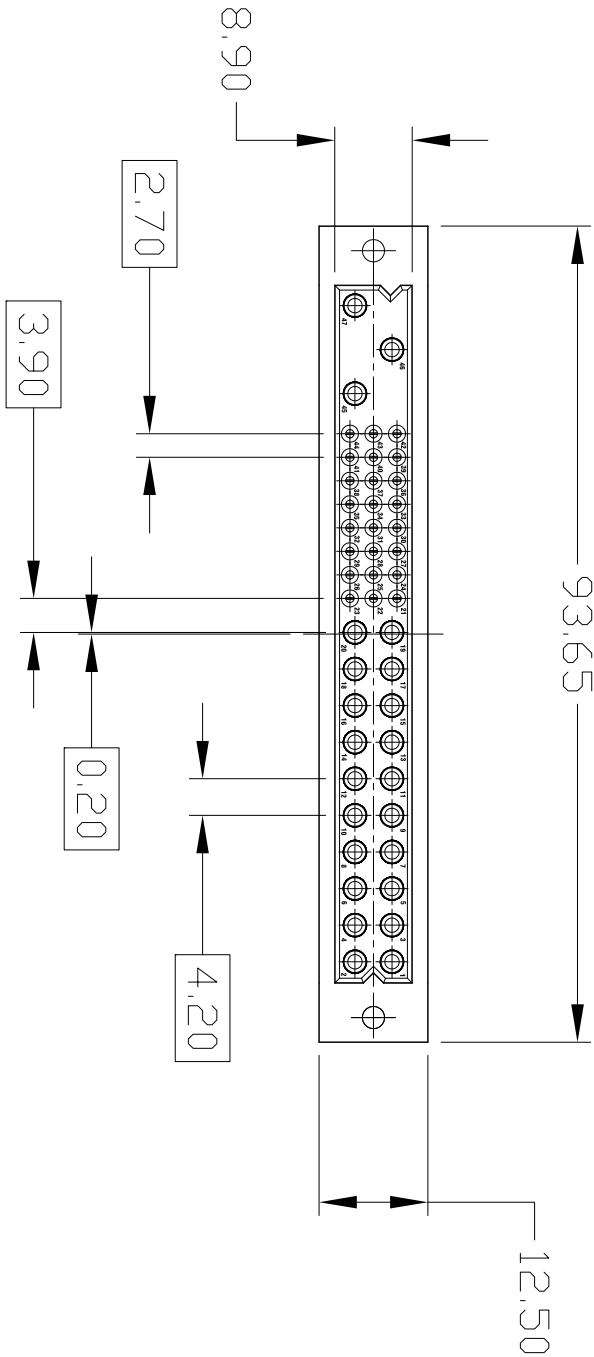
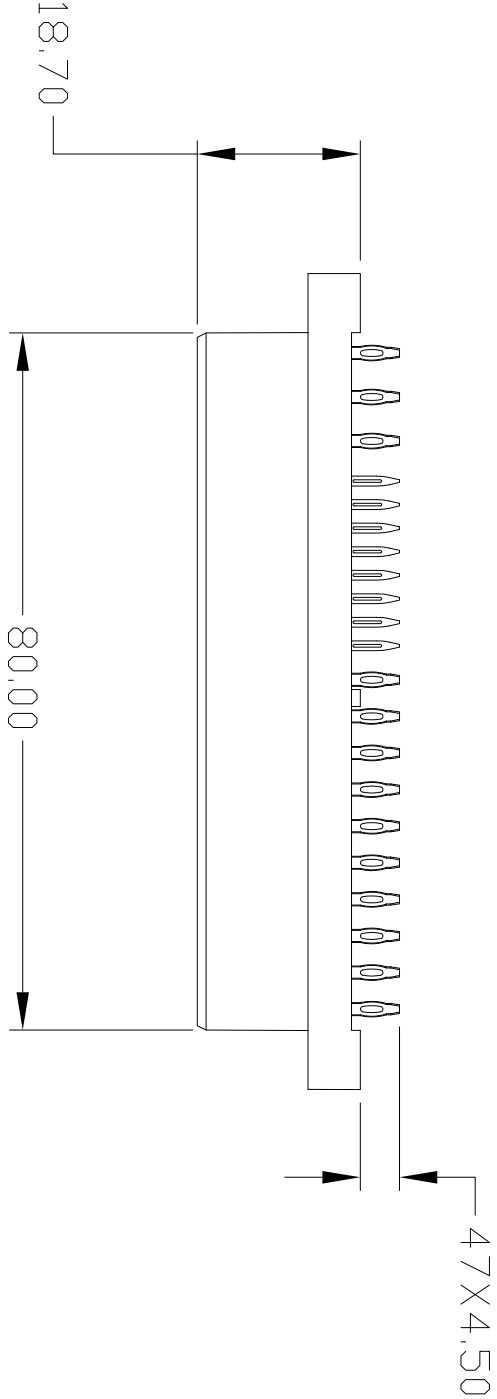
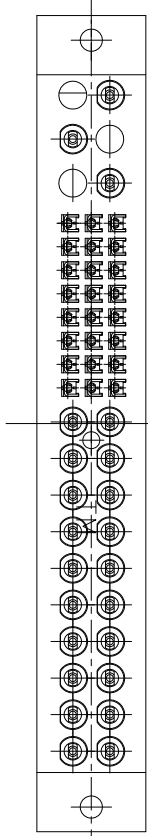


3M™ POWER BACKPLANE FEMALE CONNECTOR FOR
CPCI APPLICATIONS, 47 POSITION



RECOMMENDED PC BOARD REQUIREMENTS
(COMPONENT SIDE OF BOARD SHOWN)

- NOTES:
- MATERIALS:
 - A: HOUSING: GLASS FILLED PEXESTER (PBT)
 - B: CONTACT: COPPER ALLOY, GOLD PLATING

2. PLATING:

-ES
FINISH: 0.76µm MIN Au
UNDERCOAT: 1.27µm MIN Ni

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

-DA
FINISH: 0.08µm MIN Au
UNDERCOAT: 1.27µm MIN Ni

3. ELECTRICAL CHARACTERISTICS

ELECTRICAL FEATURES:

INSULATION RESISTANCE: ----- 10¹⁰ DHMS

INITIAL CONTACT RESISTANCE:

POWER CONTACT: ----- 0.7 MILLIOHMS MAX

SIGNAL CONTACT: ----- 4.0 MILLIOHMS MAX

VOLTAGE PROOF:

POWER 1 THRU 20: ----- 1500 VRMS

POWER 45,46,47: ----- 3000 VRMS

POWER 21 THRU 44: ----- 1000 VRMS

CURRENT RATING:

DC OUTPUT POWER 1 THRU 20: ----- 16 AMPS

INPUT POWER 45,46,47: ----- 23 AMPS

SIZE 22 SIGNAL CONTACTS: ----- 2 AMPS

MINIMUM CREEPAGE DISTANCE [MM]

POWER 47 TD 45: ----- 3.2

POWER 46 TD 45: ----- 3.2

POWER 47 TD SIGNAL: ----- 6.4

POWER 46 TD SIGNAL: ----- 6.4

POWER 47 TD 46: ----- 2.5

POWER 45 TD SIGNAL: ----- 2.0

4. SEE THE REGULATORY INFORMATION APPENDIX (RIA) IN THE "ROHS COMPLIANCE" SECTION OF: [WWW.3MCONNECTOR.COM](http://www.3mconnector.com) FOR COMPLIANCE INFORMATION (RIA E1 & C1 APPLY).

5. REFERENCE DOCUMENT: 78-9101-3345-9

6. IN THE EVENT OF CONFLICT BETWEEN THIS DATA AND THAT CONTAINED IN THE PRODUCT SPEC., THE PRODUCT SPEC. TAKES PRECEDENT.

7. PART No:

PART DESCRIPTION	TAIL TYPE
3P02-2001-XX	PRESS-FIT
3P02-2002-XX	SOLDER TAIL

8. FOR MATING PRODUCT USE:

3P01-200X-XX CPCI POWER RIGHT ANGLE
MALE CONNECTOR 47 POSITIONS

DESIGN REFERENCE		NEXT ASSEMBLY		REV	ECO	ISSUE DATE AND DESCRIPTION		DRFT	CHKD
DISTRIBUTION CODES				DRFT	ML	DATE 12/8/10		WFG	DATE
				CHKD	TS	DATE 12/8/10		APPL	DATE
DIVISION				DIVISION CODE					
DO NOT SCALE DRAWING		SCALE		TOLERANCES EXCEPT AS NOTED		INCHES			
				0 ± *		0 ± *			
THIRD ANGLE PROJECTION				.000 ± *		.000 ± *			
INTERPRET PER ASME Y14.5 - 1994				0 ± *		0 ± *			
MAX SURFACE ROUGHNESS				.00 ± 0.30		.00 ± 0.30			
☐ ALL SURFACES				.000 ± 0.10		.000 ± 0.10			
☒ MARKED ONLY				ANGLES ± 1°		MODEL			
CAGE NUMBER		SIZE		DRAWING NO.		78-5100-2370-4		REV. A	
MODEL		C		DET.		YES		NO	
				SHT		1		OF 1	

3P02-200X-XX CPCI POWER BACKPLANE
FEMALE CONNECTOR 47 POSITIONS

3M 3M Center St. Paul, MN 55144
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