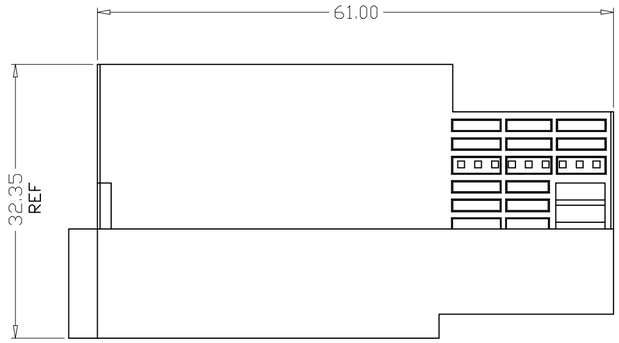
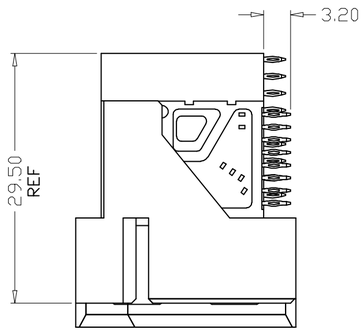
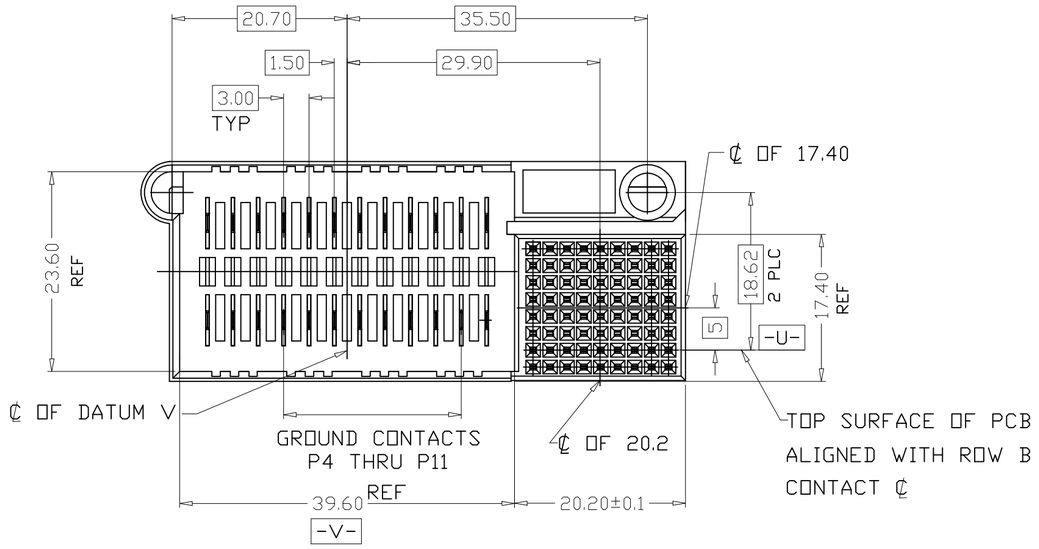
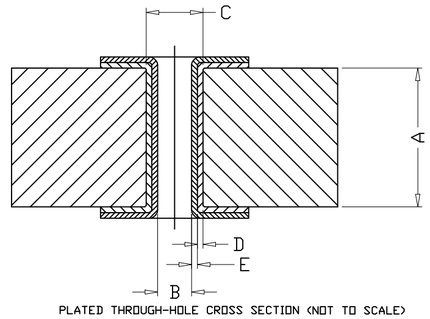
3M™ RIGHT ANGLE SOCKET AND POWER MALE MODULE FOR MicroTCA APPLICATIONS

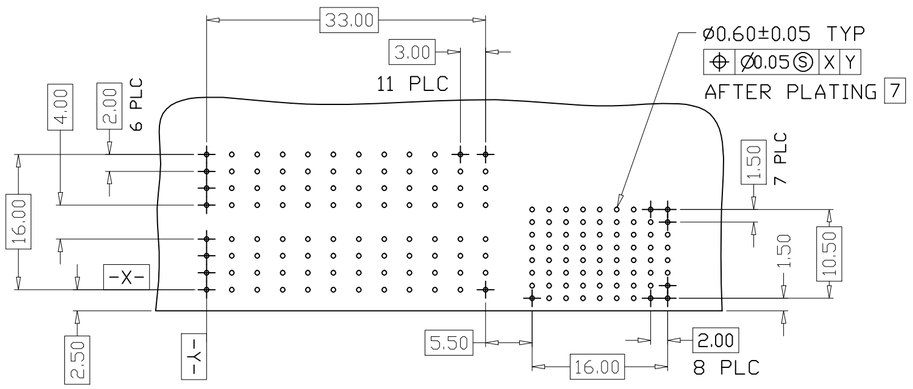








PLATED THROUGH-HOLE CROSS SECTION (NOT TO SCALE)



RECOMMENDED PC BOARD REQUIREMENTS

7

	HOLE PLATING TABLE	Dimension
A	PCB Thickness	Min. 1.4mm
B	Plated Through Hole Dia.	0.60 +/- 0.05mm
C	Drill Hole Diameter	0.70 +/- 0.02mm
D	Cu Thickness	Min. 25µm
E	Plating Thickness	Min. 0.5µm Immersion Sn

NOTES:

1. MATERIALS
   A. HOUSING: THERMOPLASTIC POLYESTER, GLASS FILLED RATED UL 94V-0, COLOR: GRAY
   B. CONTACT: COPPER ALLOY, GOLD PLATING

2. PLATING:
   -AS:
   FINISH: MATING AREA- 0.76um Au
   COMPLIANT PIN AREA-1.27um MIN MATTE Sn
   1.27um MIN Ni ALL OVER

3. RATINGS:
   A. VOLTAGE(TEST VOLTAGE): 80V r.m.s.
   B. CURRENT RATING:
   SIGNAL AND SIGNAL GND CONDUCTOR 0.625A/PIN
   POWER BRANCH GND CONDUCTOR 11.625 A/PIN
   C. MAXIMUM LINE RESISTANCES:
   SIGNAL AND SIGNAL GND CONDUCTOR 25 MILLI OHMS
   POWER BRANCH GND CONDUCTOR 5 MILLI OHMS

4. ENGAGING FORCE: 145N MAX;
   SEPARATING FORCE: 110N MAX.

5. DURABILITY: 200 MATING CYCLES

6. FOR PRODUCT SPECIFICATION AND WARRANTY INFORMATION SEE 78-5102-0084-9

7. PCB HOLE DIMENSIONS

8. SEE THE REGULATORY INFORMATION APPENDIX (RIA) IN THE "RoHS COMPLIANCE" SECTION OF: WWW.3MCONNECTOR.COM FOR COMPLIANCE INFORMATION (RIA E1 & C1 APPLY).

9. REFERENCE DOCUMENT 78-9101-3345-9

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

11. PART NUMBER: 1P01-1110-AS

12. FOR MATING PRODUCT USE:
    1P02-11X0-XX MicroTCA BACKPLANE HEADER AND POWER FEMALE MODULE

REV	ECO	ISSUE DATE AND DESCRIPTION	DRFT	CHKD
B	33179	REMOVED-HM PLATING AND 2.25mm CONTACT OPTIONS	ML	TS

DESIGN REFERENCE | NEXT ASSEMBLY | DISTRIBUTION CODES

DRFT ML DATE 10/05/10 | MFG | DATE

CHKD TS DATE 10/05/10 | APPVL | DATE

DIVISION | DIVISION CODE

DO NOT SCALE DRAWING | SCALE

TOLERANCES EXCEPT AS NOTED

THIRD ANGLE PROJECTION

INTERPRET PER ASME Y14.5 – 1994

MAX SURFACE ROUGHNESS ☐ ALL SURFACES ☐ MARKED ONLY

INCHES: .0 ± * | .00 ± * | .000 ± * | .0000 ± *

MILLIMETERS: 0 ± * | .0 ± 0.3 | .00 ± 0.20 | .000 ± 0.100

ANGLES ± 1°

3M 3M Center St. Paul, MN 55144

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TITLE: 1P01-1110-AS MicroTCA RIGHT ANGLE SOCKET AND POWER MALE MODULE

CAGE NUMBER | SIZE C | DRAWING NO. 78-5100-2367-0 | REV. B

MODEL | DET. LISTS ☐ YES ☐ NO | SHT 1 OF 1