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REVISIONS			
EC	REV	DESCRIPTION	DATE
CPR	A	NEW RELEASE	09/27/05

NOTES: UNLESS OTHERWISE SPECIFIED

- PART NUMBER CHANGES AND OR DESIGN CHANGES AFFECTING ITEM INTERCHANGEABILITY REQUIRE PRIOR ELCON APPROVAL AND AUTHORIZATION BY REVISION TO THIS DRAWING.
- ITEMS PROVIDED TO THIS SPECIFICATION ARE TO BE PERMANENTLY IDENTIFIED ON THE PART AND PACKAGE WITH THE FOLLOWING INFORMATION:
PART NUMBER AND DATE CODE OF MANUFACTURE.
- MATERIALS:
INSULATOR: VALOX 420-SEO, UL RATED, 94V-0, COLOR- BLACK.
BACKPLANE CONTACTS: BRASS, CDA 36000
CROWN BANDS: BeCu, CDA 17200, HEAT TREATED
HOT PLUG HOODS: BeCu, CDA 17300
MOUNTING HARDWARE: STEEL.
- FINISHES:
SIZE #12 AND #20 CONTACTS: GOLD PLATED.
SIZE #8 CONTACT: SILVER PLATED.
CROWN BANDS: GOLD PLATED.
HOT PLUG HOODS: GOLD PLATED.
MOUNTING HARDWARE: ZINC PLATED.

5. INSERTION FORCE (MAX) AND WITHDRAWAL FORCE (MIN) IN OUNCES:

SIZE	INSERTION	RETENTION
8	48	12
12	80	16
20	5	1

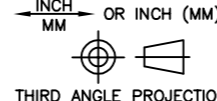
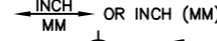


6. MOUNTING HARDWARE WILL BE PACKAGED SEPARATELY AND SHIPPED LOOSE WITH THE CONNECTOR ASSEMBLY.

REF PN: 1-1428066-0 (WAS 903-0104-02300) SCREW, PAN HEAD, PHILIPS (2 EA)
5018030-1 (WAS 903-37-02300) HEX NUT, 3mm x 2.4 (2 EA)

7. BACKPLANE CONNECTOR REFERENCE ASSEMBLY PART NUMBERS:
TYCO PN: 6643101-1 (RoHS VERSION OF ELCON PN 235-0144-00100B)
SUN MICRO PN: 130-4461-01

8. PIN & SOCKET PCB TAIL CONTACTS INSTALLED.
REFERENCE PART NUMBERS, DESCRIPTION & ARRANGEMENT BELOW.

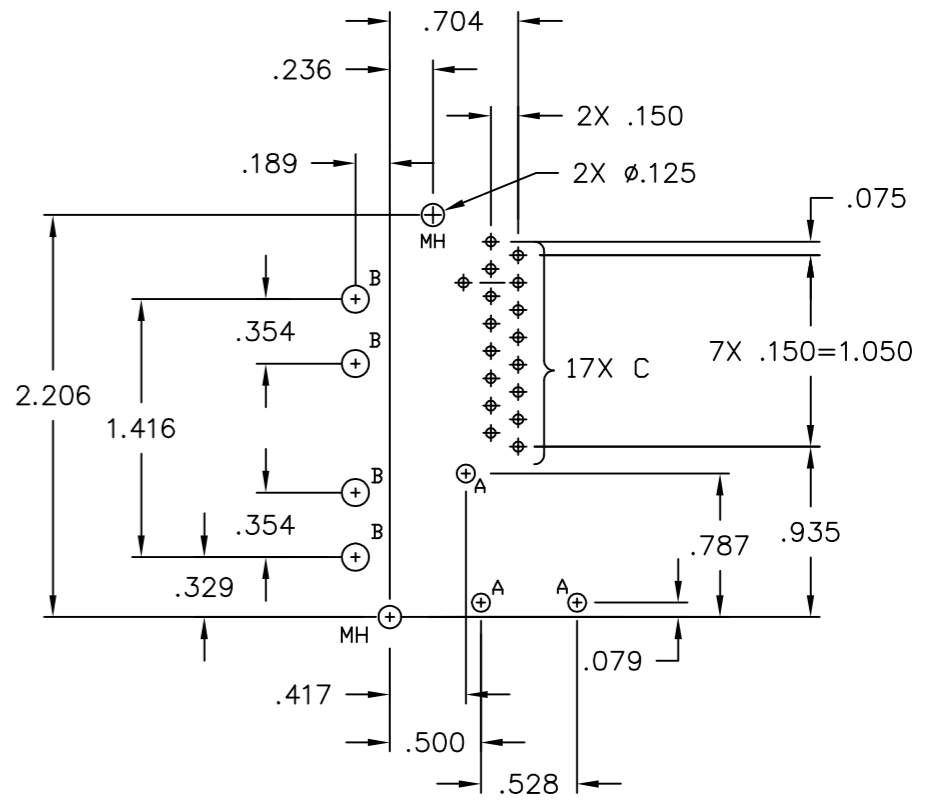
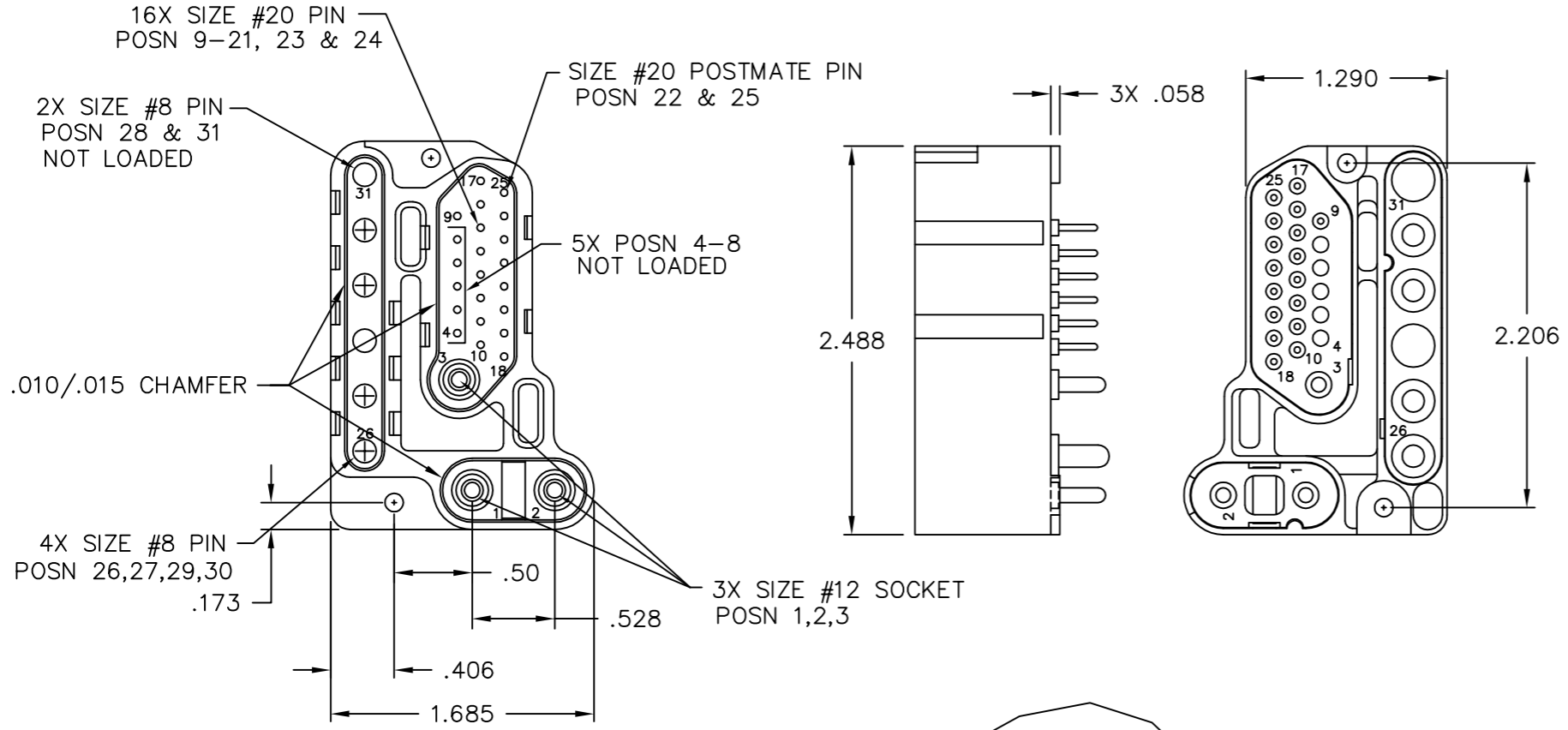
PART NUMBER	DESCRIPTION	POSITION	QTY	PIN DIA AS APPLIED
1648356-2	SOCKET CONTACT, #12, PCB TAIL	1-3	3	NOT APPLICABLE
1650203-1	PIN CONTACT, #20, PCB TAIL, STD	9-21, 23, 24	15	.041/.039
1650206-1	PIN CONTACT, #20, PCB TAIL, POSTMATE	22 & 25	2	.041/.039
1766218-1	PIN CONTACT, #8, PCB TAIL	26,27,29,30	4	.143/.141

 THIRD ANGLE PROJECTION UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES (METRIC) TOLERANCES ANGLES ± .5° DECIMALS .XXX ± .010 (.25) .XX ± .02 (.3)	INCH OR INCH (MM) 	DRAWN LOVATO/M. ALIM CHECKED	DATE 09/27/05	 Tyco Electronics Corporation Menlo Park, Ca 94025 
	APPROVED APPROVED D. CHAU DCA APPROVED M. ALIM	09/27/05 09/27/05	TITLE CONNECTOR, PIN BACKPLANE PN 6643101-1	
	ACAD FILE NUMBER C6643101A.DWG	SIZE B	DWG NUMBER C= 6643101	REV. A
	DWG SCALE 1=1		SH 1 OF 3	

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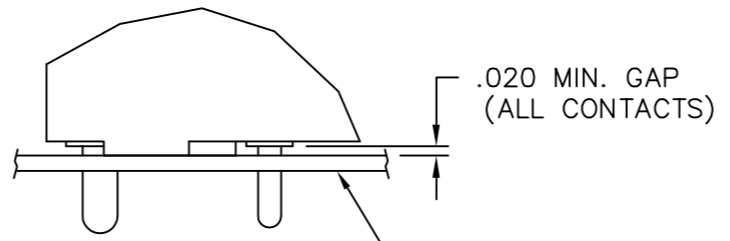
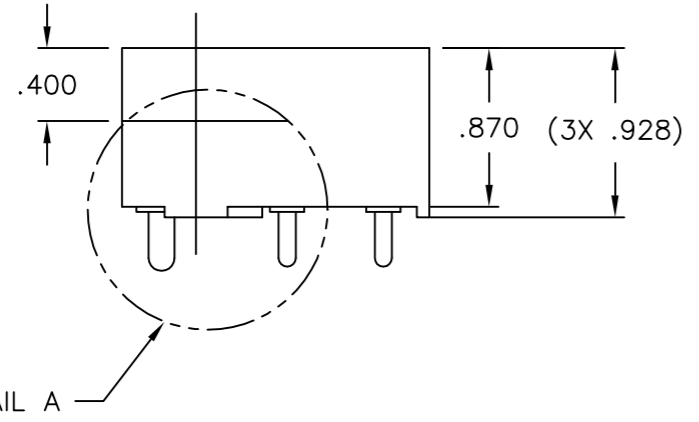
REVISIONS			
EC	REV	DESCRIPTION	DATE
		SEE SHEET 1	

B



SUGGESTED PCB LAYOUT

A



DETAIL A
(MOUNTED ON PCB)
NO SCALE

HOLE IDENT	SIZE	QTY	CONTACT
A	12	3	SOCKET
B	8	4	PIN
C	20	17	PIN

<small>INCH MM</small> OR INCH (MM) THIRD ANGLE PROJECTION UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES (METRIC) TOLERANCES ANGLES ± .5° DECIMALS .XXX ± .010 (.25) .XX ± .02 (.3)	DRAWN LOVATO/M. ALIM CHECKED	DATE 09/27/05	 Tyco Electronics Corporation Menlo Park, Ca 94025 	
	APPROVED APPROVED D. CHAU M. ALIM	DATE 09/27/05 09/27/05		TITLE CONNECTOR, PIN BACKPLANE PN 6643101-1
	ACAD FILE NUMBER C6643101A.DWG	DWG NUMBER B C = 6643101	REV. A	DWG SCALE 1=1 SH 2 OF 3

4

3

2

1

B

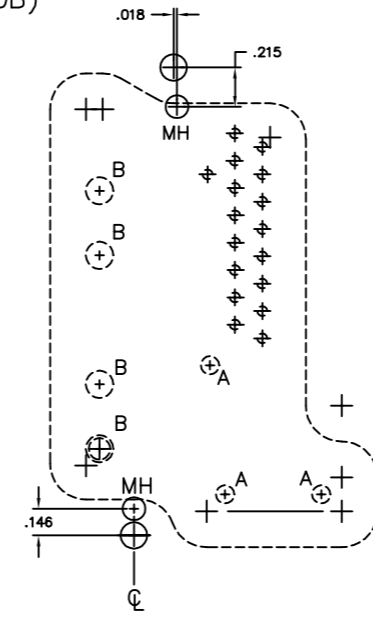
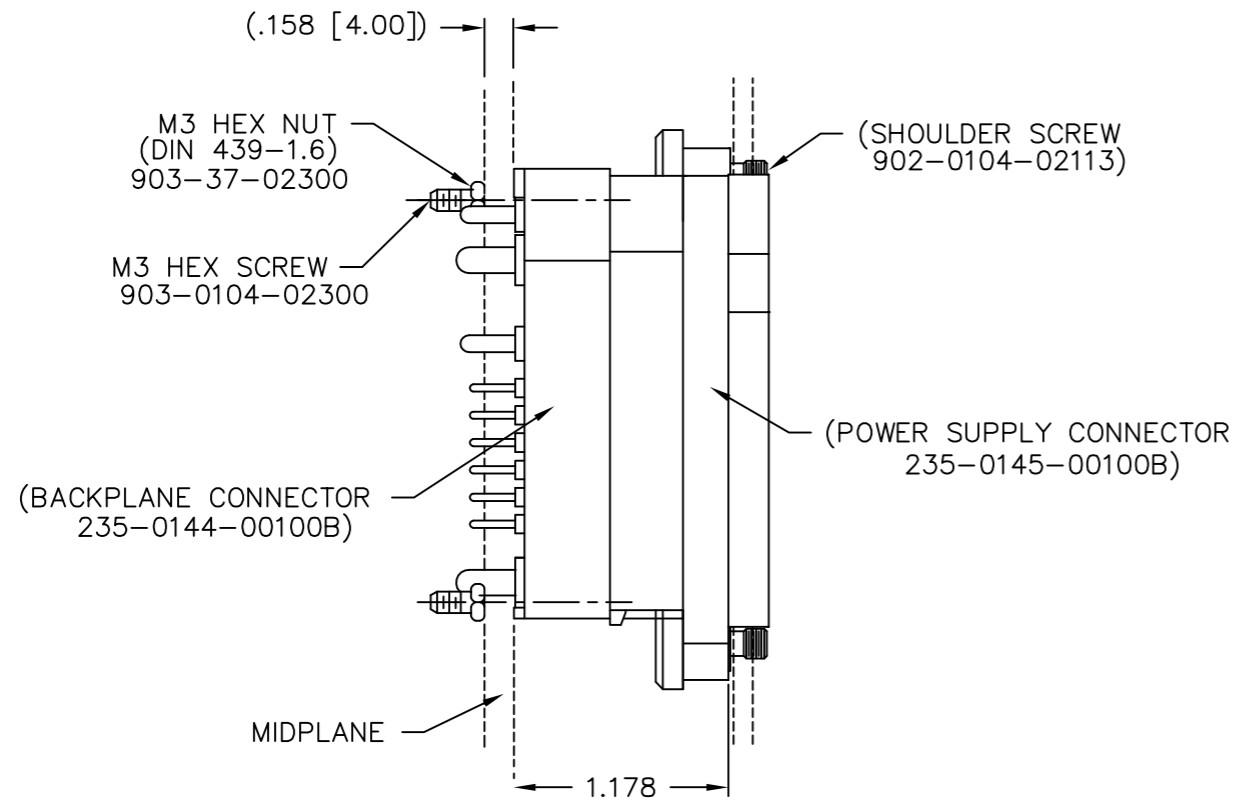
A

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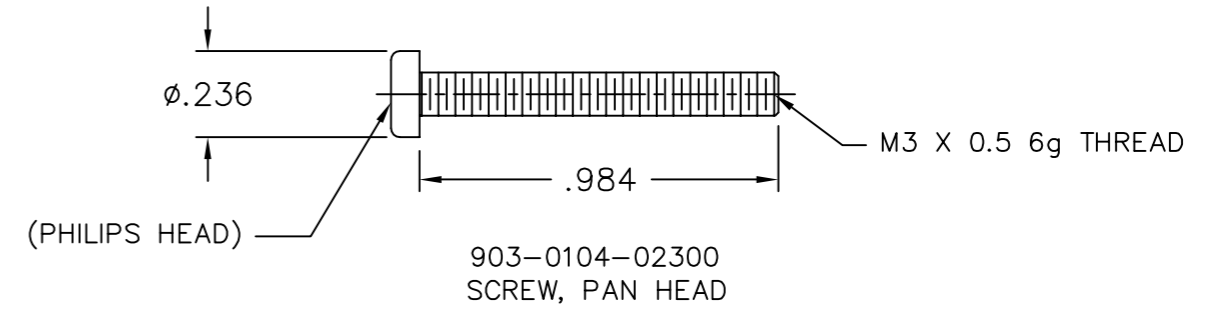
CONNECTOR SET, MATED

TYCO PN 6643101-1, RoHS VERSION OF ELCON PN 235-0144-00100B
& TYCO PN 6651160-1, RoHS VERSION OF ELCON PN 235-0145-00100B)

REVISIONS			
EC	REV	DESCRIPTION	DATE
		SEE SHEET 1	

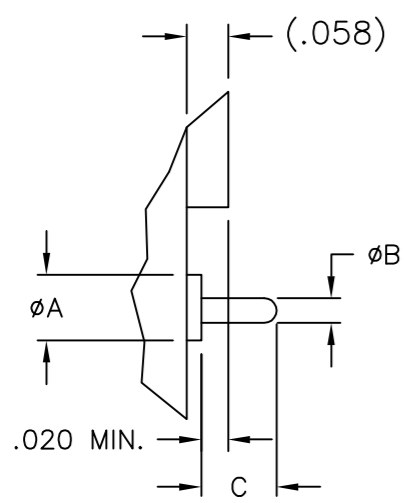


PANEL CUTOUT MATING POWER SUPPLY
CONNECTOR SUPERIMPOSED (DASHED LINE)
OVER PCB LAYOUT OF BACKPLANE CONNECTOR



903-0104-02300
SCREW, PAN HEAD

SCALE : 2=1



PC SOLDER TAIL

DIM	CONTACT SIZE		
	20	12	8
A	.102	.188	.276
B	.040	.093	.142
C	.280	.330	.340

NO SCALE

INCH OR INCH (MM) THIRD ANGLE PROJECTION UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES (METRIC) TOLERANCES ANGLES ± .5° DECIMALS .XXX ± .010 (.25) .XX ± .02 (.3)	DRAWN LOVATO/M. ALIM CHECKED	DATE 09/27/05	 Tyco Electronics Corporation Menlo Park, Ca 94025
	APPROVED D. CHAU DCA APPROVED M. ALIM ACAD FILE NUMBER C6643101A.DWG	APPROVED 09/27/05 09/27/05	TITLE MATING CONNECTOR AND MOUNTING HARDWARE PN 6643101-1
REV. A			DWG SCALE 1=1 SH 3 OF 3