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REVISIONS

EC	REV	DESCRIPTION	DATE
0S1Q-0417-04	A	NEW RELEASE	11/22/04

B

B

8. MODULE INFORMATION

CONNECTOR	TYCO PART NUMBER	ELCON PART NUMBER	CATALOG MODULE #	QTY	SIZE NO.	CONTACT QTY	MATING PIN	MAX. CURRENT (PER CONTACT)	CONTACT SPACING	VOLTAGE RATING*
SOCKET	6651146-1	278-0852-10200A	FP0200	2	8	2	1.25 X 7.00 [.049 X .276]	35 AMPERES	7.50 [.2953]	250 VOLTS
			FP0515	ACTIVE STRAIGHT GUIDE PIN						
SOCKET	6651146-2	278-0852-10400A	FP0100	2	8	2	1.25 X 7.00 [.049 X .276]	35 AMPERES	7.50 [.2953]	250 VOLTS
			FP0515	ACTIVE STRAIGHT GUIDE PIN						

NOTES: UNLESS OTHERWISE SPECIFIED.

1. PART NUMBER CHANGES AND OR DESIGN CHANGES AFFECTING ITEM INTERCHANGEABILITY REQUIRE PRIOR ELCON APPROVAL AND AUTHORIZATION BY REVISION TO THIS DRAWING.

2. MATERIALS:

INSULATORS: THERMOPLASTIC, GLASS REINFORCED, COLOR BLACK.
UL94V-0 FLAMMABILITY RATED.

POWER CONTACTS: PHOSPHOR BRONZE ALLOY,
COPPER ALLOY.

CROWN BANDS: BERYLLIUM COPPER ALLOY.
GUIDE PIN: BRASS COPPER ALLOY.

3. FINISHES:

CONTACTS: GOLD PLATED PER MIL-G-45204 TYPE II, CLASS 0,
.000030" MIN. THK, OVER NICKEL PER QQ-N-290,
CLASS 2, .000040" MIN. THICKNESS.

TERMINALS: TIN PLATED, MATTE FINISH,
.000120" TO .000170" THICK.

GUIDE PIN: NICKEL PLATED PER AMS 2404.

4. RECOMMENDED PRESSING TOOL PN FIX00188 FOR PN 278-0852-10200.

△ ACTIVE GUIDE PIN ACCEPT M3 SCREWS, (USER SUPPLIED).

6. ITEMS PROVIDED TO THIS SPECIFICATION TO BE PERMANENTLY IDENTIFIED PER THE FOLLOWING IDENTIFIER:

YEAR WEEK
ELCON PART NO. & REV DATE CODE (e.g. 04012)
XXX-XXXX-XXXXX [] XXXX

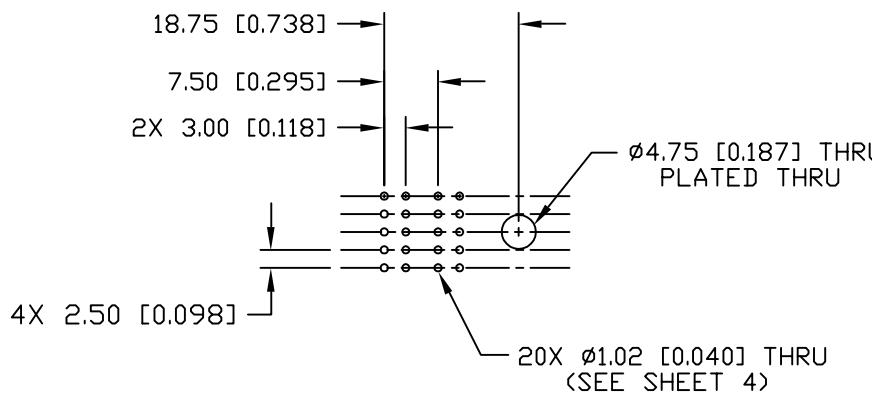
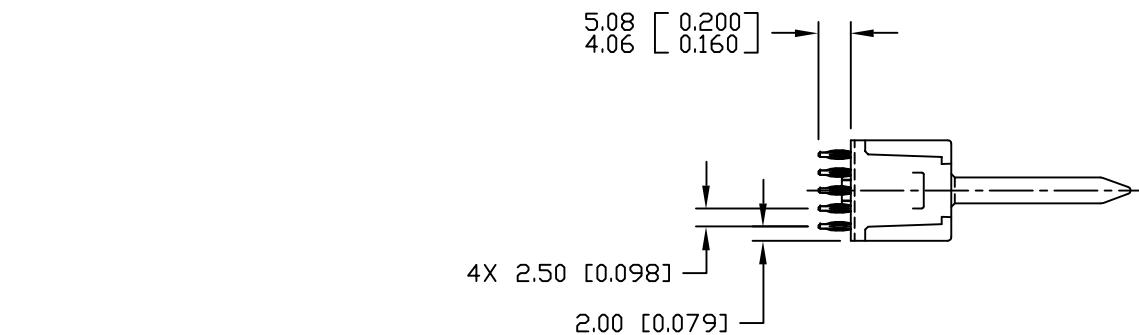
7. THIS CONNECTOR MATES WITH PIN CONNECTOR PN 479-0852-10100/-10300.

 THIRD ANGLE PROJECTION	DRAWN	DATE	 Tyco Electronics Corporation Menlo Park, Ca 94025
	R. F. A.	11/18/04	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN METRIC [INCHES]	CHECKED		TITLE
	APPROVED		
TOLERANCES ANGLES $\pm .5^\circ$	APPROVED		SOCKET CONNECTOR, FLATPAQ STRAIGHT, SOLDER & COMPLIANT TAILS PN: 278-0852-10200A/278-0852-10400A
	D. CHAU	11/22/04	
DECIMALS .XX $\pm .25$ [.010] .X $\pm .5$ [.020]	APPROVED		SIZE DWG NUMBER B C = 6651146
	M. ALIM	11/30/04	
ACAD FILE NUMBER C6651146A.DWG			REV. A
			DWG SCALE 1=1 SH 1 OF 4

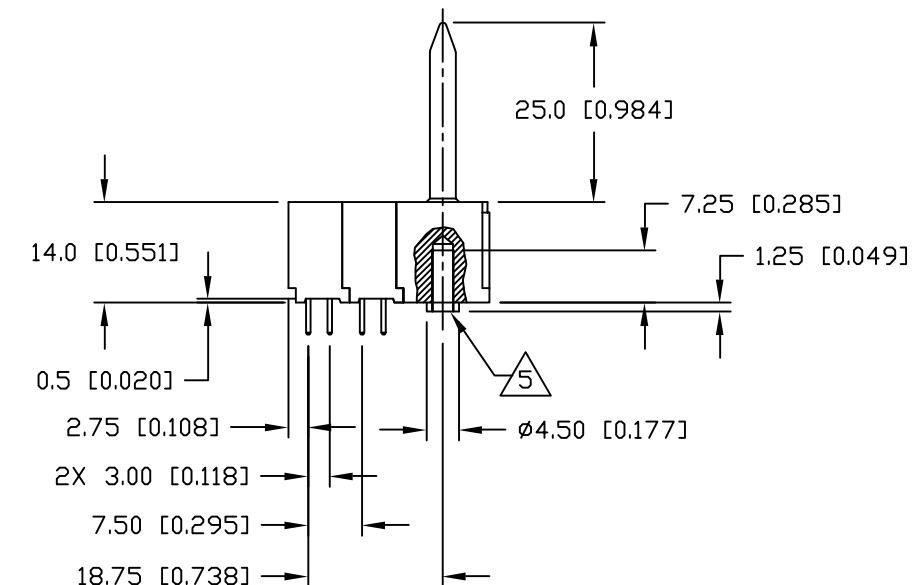
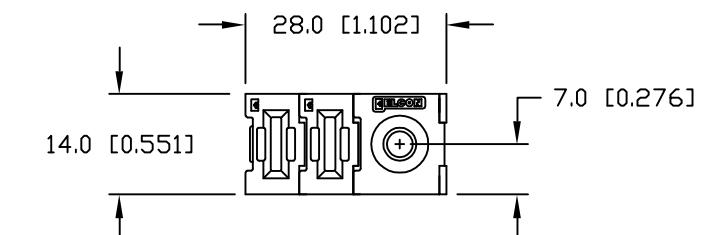
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REVISIONS

EC	REV	DESCRIPTION	DATE
		SEE SHEET 1	



PRINTED CIRCUIT LAYOUT

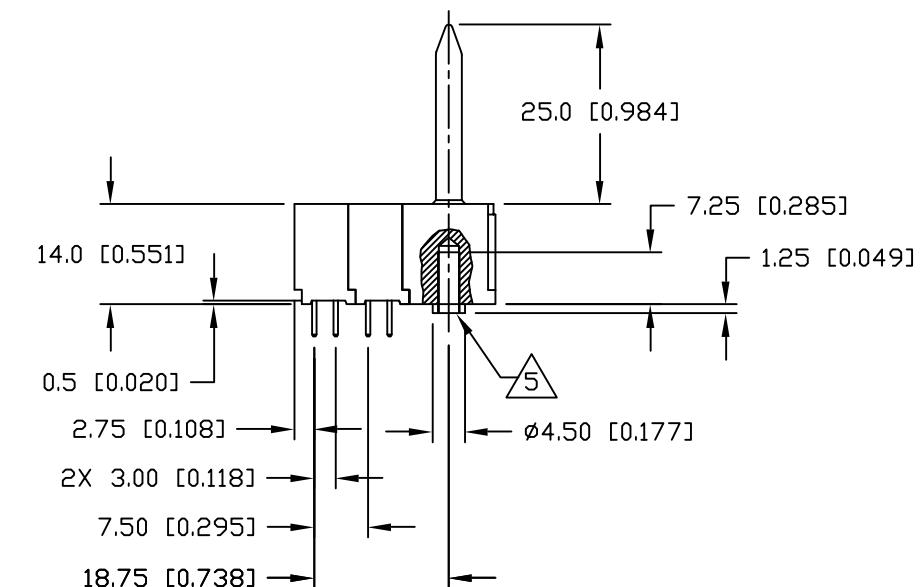
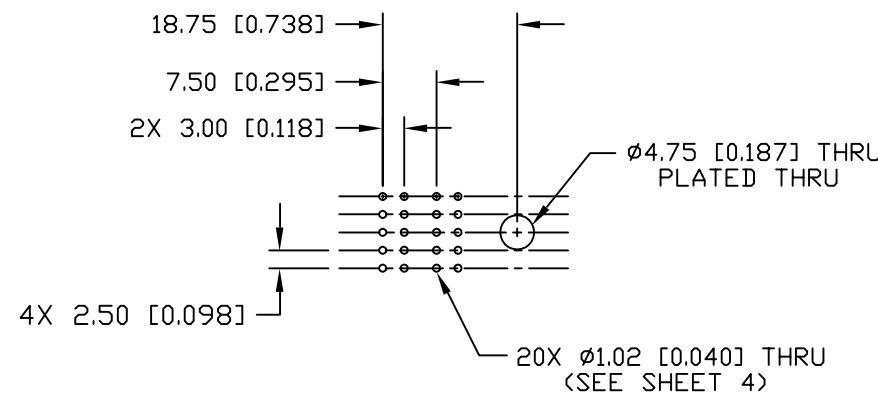
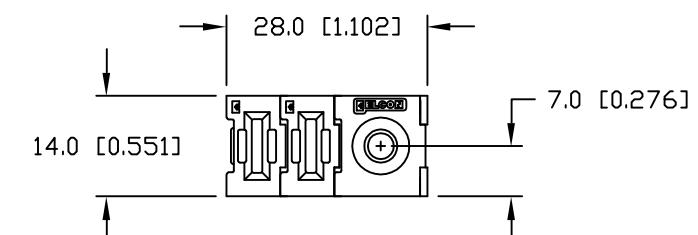
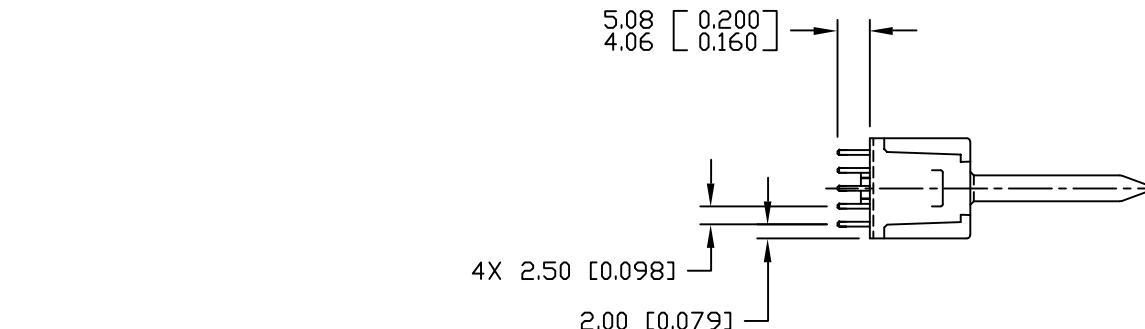


 THIRD ANGLE PROJECTION	DRAWN R. F. A.	DATE 11/18/04	tyco Electronics	Tyco Electronics Corporation Menlo Park, Ca 94025
	CHECKED			
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN METRIC [INCHES]	APPROVED			ELCON
TOLERANCES	APPROVED			
ANGLES $\pm .5^\circ$	D. CHAU	11/22/04		
DECIMALS	DCA APPROVED			
.XX $\pm .25$ [.010]	M. ALIM	11/30/04	SIZE	DWG NUMBER
.X $\pm .5$ [.020]	ACAD FILE NUMBER	C6651146.A.DWG	C - 6651146	REV. A
			DWG SCALE	1 = 1 SH 2 OF 4

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REVISIONS

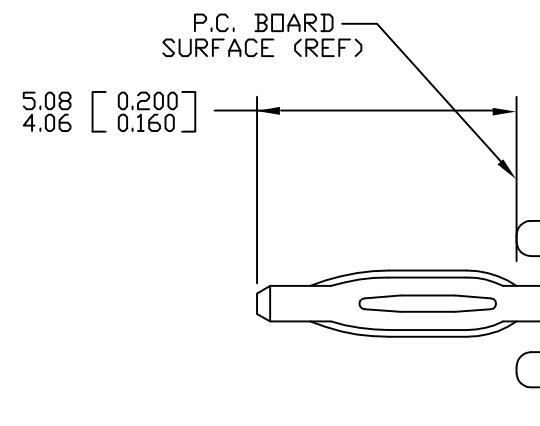
EC	REV	DESCRIPTION	DATE
		SEE SHEET 1	



PRINTED CIRCUIT LAYOUT

 THIRD ANGLE PROJECTION	DRAWN	DATE	tyco Electronics Tyco Electronics Corporation Menlo Park, Ca 94025 ELCON
	CHECKED		
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN METRIC [INCHES]	APPROVED		TITLE
TOLERANCES	APPROVED		SOCKET CONNECTOR, FLATPAQ
ANGLES $\pm .5^\circ$	APPROVED		STRAIGHT, SOLDER TAILS
DECIMALS	D. CHAU	11/22/04	PN: 278-0852-10400A
.XX $\pm .25$ [.010]	DCA APPROVED		
.X $\pm .5$ [.020]	M. ALIM	11/30/04	
	ACAD FILE NUMBER	C6651146.DWG	
			DWG SCALE 1=1 SH 3 OF 4

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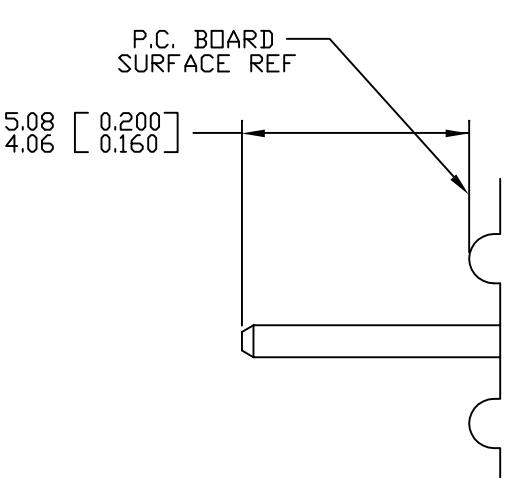


COMPLIANT PIN DETAIL

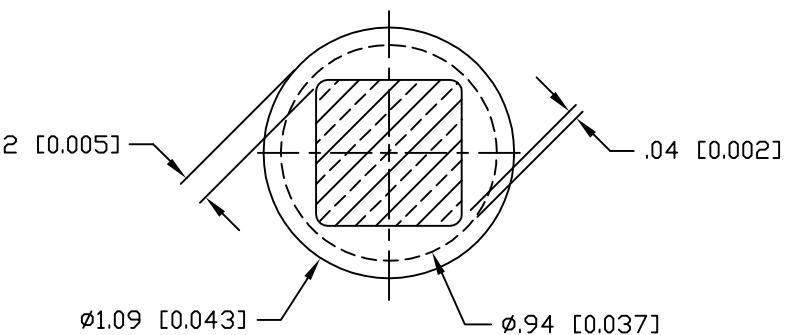
INSERTION/EXTRACTION FORCES

MAXIMUM PUSH-IN: 133.3N PER PIN
[30 LBS]

MINIMUM PUSH-OUT: 44.4N PER PIN
[10 LBS]



SOLDER PIN DETAIL



SOLDER TERMINATION AREA

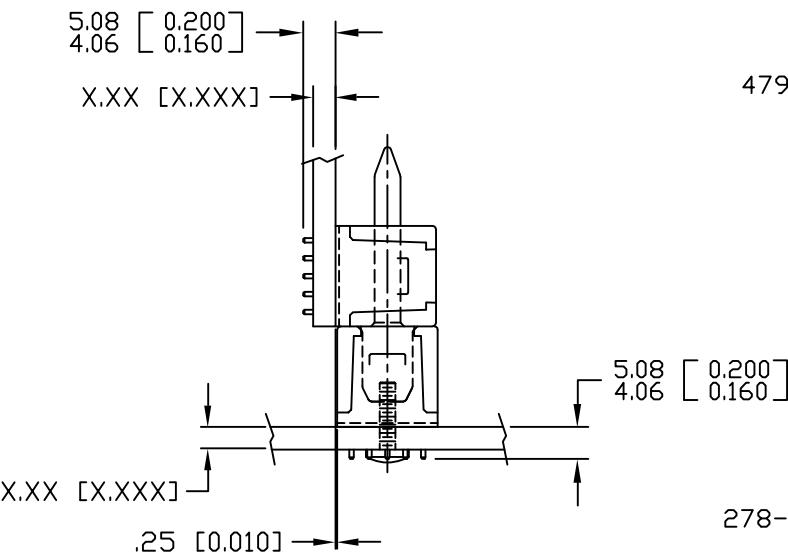
RECOMMENDED PRINTED CIRCUIT HOLE

FINISHED HOLE: Ø1.02 [0.040] ±.08 [0.003]

DRILLED HOLE: Ø1.15 [0.0453] ±.013 [0.005]

COPPER PLATE: .025 [0.0010] MINIMUM (PER SURFACE)

TIN PLATE: .008 [0.0003] MINIMUM (PER SURFACE)



MATED CONDITION

 <small>UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN METRIC [INCHES]</small>	DRAWN	DATE	 <small>Tyco Electronics Corporation Menlo Park, Ca 94025</small>
	CHECKED		
APPROVED			ELCON
APPROVED			
ANGLES $\pm .5^\circ$			
DECIMALS			
.XX $\pm .25$ [.010]			
.X $\pm .5$ [.020]			
ACAD FILE NUMBER	C6651146.DWG	REV.	
			A
		DWG SCALE	1=1 SH 4 OF 4

Mouser Electronics

Authorized Distributor

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[6651146-1](#)