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NOTES: UNLESS OTHERWISE SPECIFIED.

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

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

SOLDER SIGNAL PIN: BRASS ALLOY.

COMPLIANT SIGNAL PIN: PHOSPHOR BRONZE ALLOY.

POWER CONTACTS: PHOSPHOR BRONZE ALLOY, COPPER ALLOY.

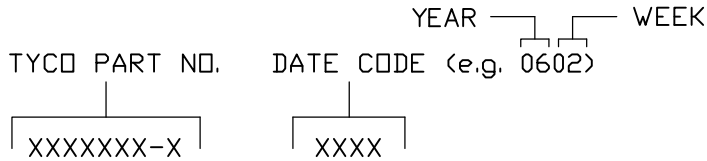
CROWN BANDS: COPPER ALLOY.
3. FINISHES:

CONTACTS: GOLD PLATE .000030" MIN. THK, OVER NICKEL .000040" MIN. THICKNESS.

TERMINALS: TIN PLATE, MATTE FINISH 000040" MIN. THICKNESS.

4 MOUNTING FLANGES ACCEPT M3 OR #4 SCREWS, (USER SUPPLIED).

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



REVISIONS			
EC	REV	DESCRIPTION	DATE
CPR	A	NEW RELEASE	2/2/06

6. MODULE INFORMATION

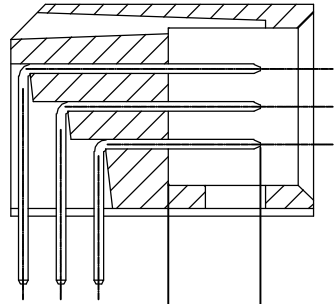
CONNECTOR	TYCO PART NUMBER	CATALOG MODULE #	QTY	SIZE NO.	CONTACT QTY	MATING PIN	MAX. CURRENT (PER CONTACT)	CONTACT SPACING	VOLTAGE RATING*
PIN	6646810-1	FP731	1	8	8	1.25 X 7.00 [.049 X .276]	35 AMPERES	7.50 [.2953]	250 VOLTS
				22	6	.64 [.025] SQ.	3 AMPERES	2.50 [.0984]	125 VOLTS
				LEFT MOUNTING FLANGE					
				RIGHT MOUNTING FLANGE					
PIN	6646810-2	FP731	1	8	8	1.25 X 7.00 [.049 X .276]	35 AMPERES	7.50 [.2953]	250 VOLTS
				22	6	.64 [.025] SQ.	3 AMPERES	2.50 [.0984]	125 VOLTS
				LEFT MOUNTING FLANGE					
				RIGHT MOUNTING FLANGE					

*IAW IEC-950

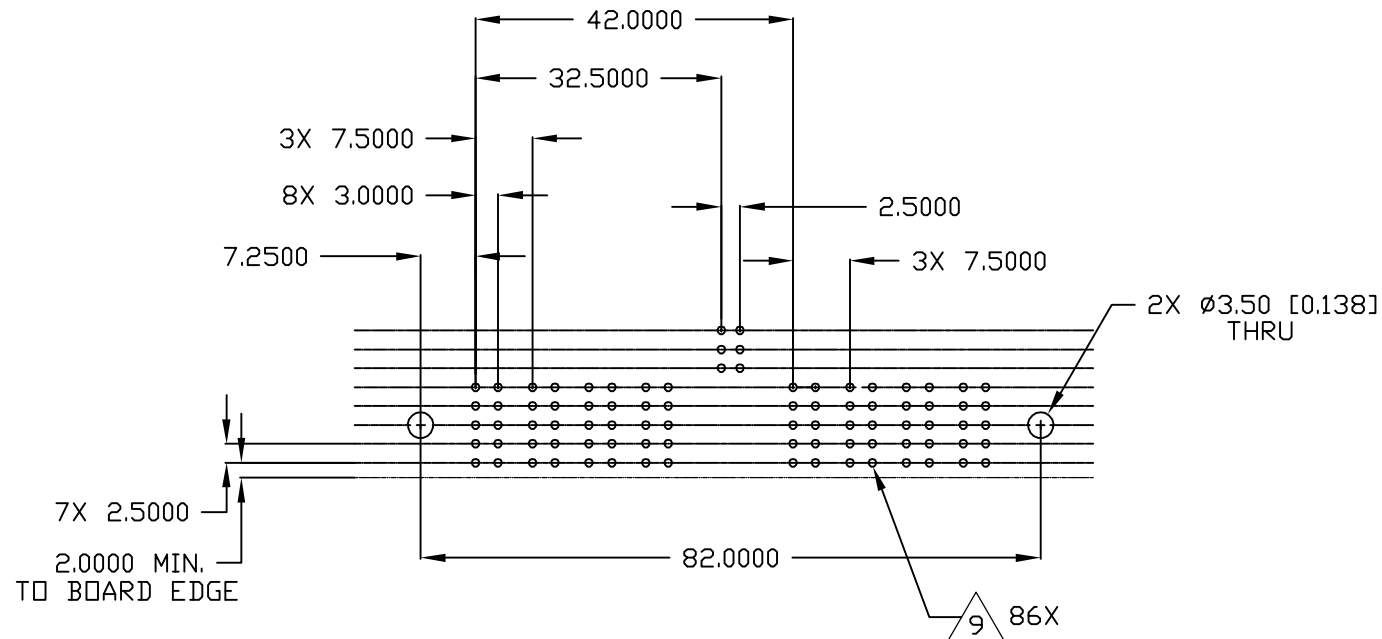
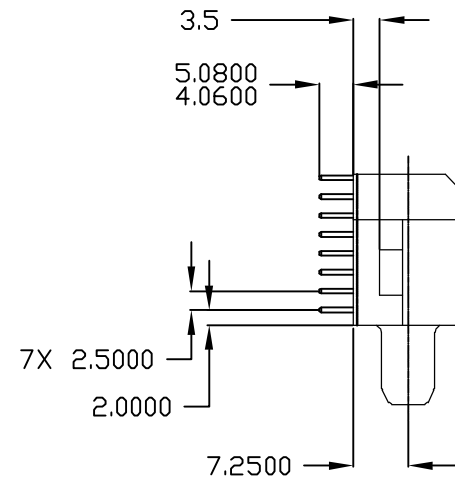
TYCO PART NUMBER
6646810-2
6646810-1

← MM OR MM [INCH] INCH THIRD ANGLE PROJECTION UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN METRIC [INCHES] TOLERANCES ANGLES ± .5° DECIMALS .XX ± .25 [.010] .X ± .5 [.020]	DRAWN R. F. A.	DATE 2/2/06	tyco Tyco Electronics Corporation Electronics Menlo Park, Ca 94025 ELCON		
	CHECKED		TITLE PIN CONNECTOR, FLATPAQ RIGHT ANGLE, SOLDER AND COMPLIANT TAILS		
	APPROVED				
	APPROVED D. CHAU	2/2/06			
	DCA APPROVED		SIZE B	DWG NUMBER C = 6646810	REV. A
ACAD FILE NUMBER		C6646810A.DWG		DWG SCALE 1=1	SH 1 OF 4

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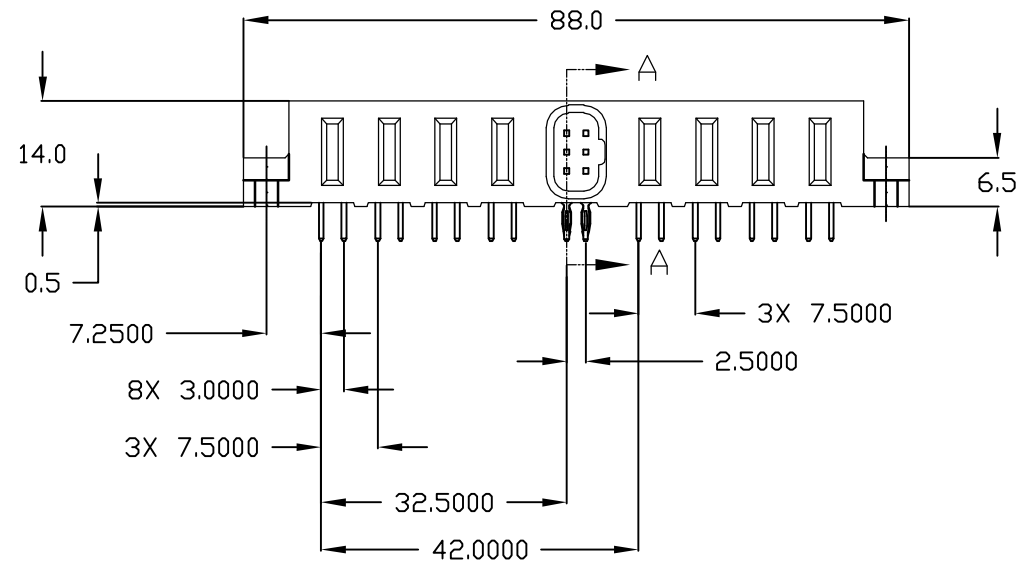
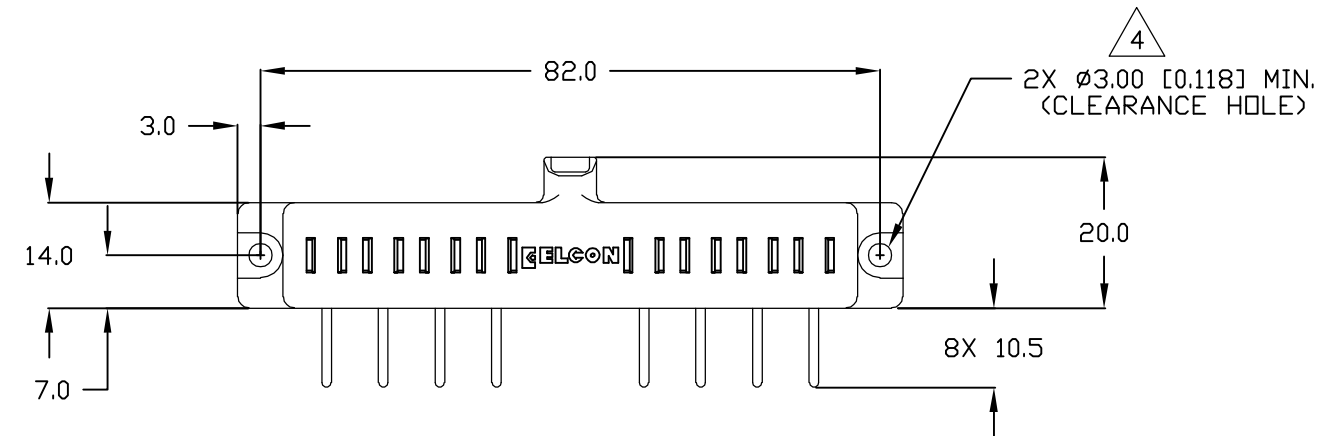


SECTION A-A



PRINTED CIRCUIT LAYOUT

REVISIONS			
EC	REV	DESCRIPTION	DATE
		SEE SHEET 1	

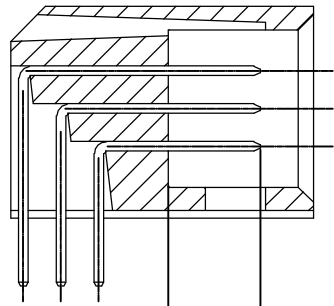


TYCO PART NUMBER

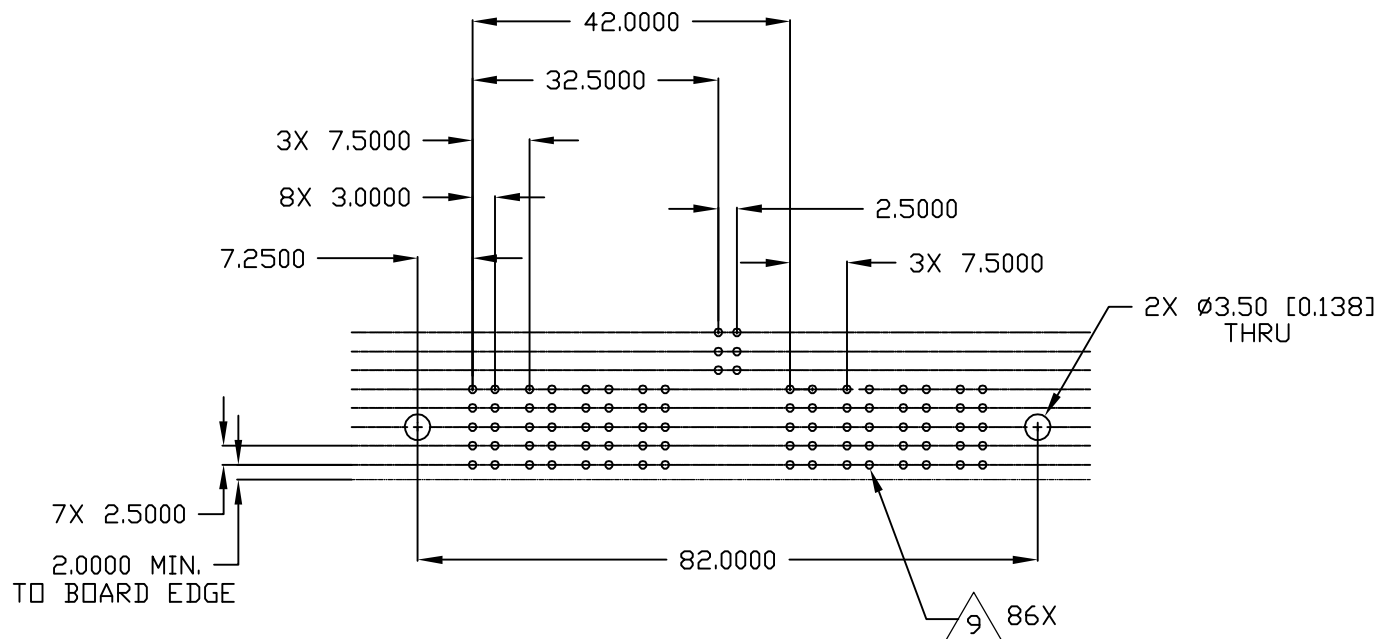
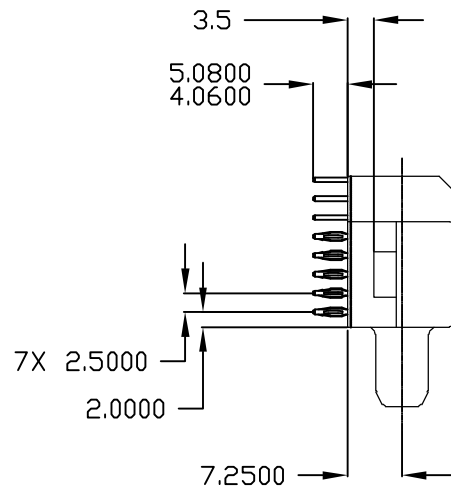
6646810-1

MM INCH OR MM [INCH] THIRD ANGLE PROJECTION UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN METRIC [INCHES] TOLERANCES ANGLES ± .5° DECIMALS .XX ± .25 [0.010] .X ± .5 [0.020]	DRAWN R. F. A.	DATE 2/2/06	tyco Electronics Tyco Electronics Corporation Menlo Park, Ca 94025 ELCON		
	CHECKED		TITLE		
	APPROVED		PIN CONNECTOR, FLATPAQ RIGHT ANGLE, SOLDER TAILS		
	APPROVED D. CHAU	2/2/06	SIZE B	DWG NUMBER C = 6646810	REV. A
	DCA APPROVED				
ACAD FILE NUMBER		C6646810A.DWG		DWG SCALE 1=1	
				SH 2 OF 4	

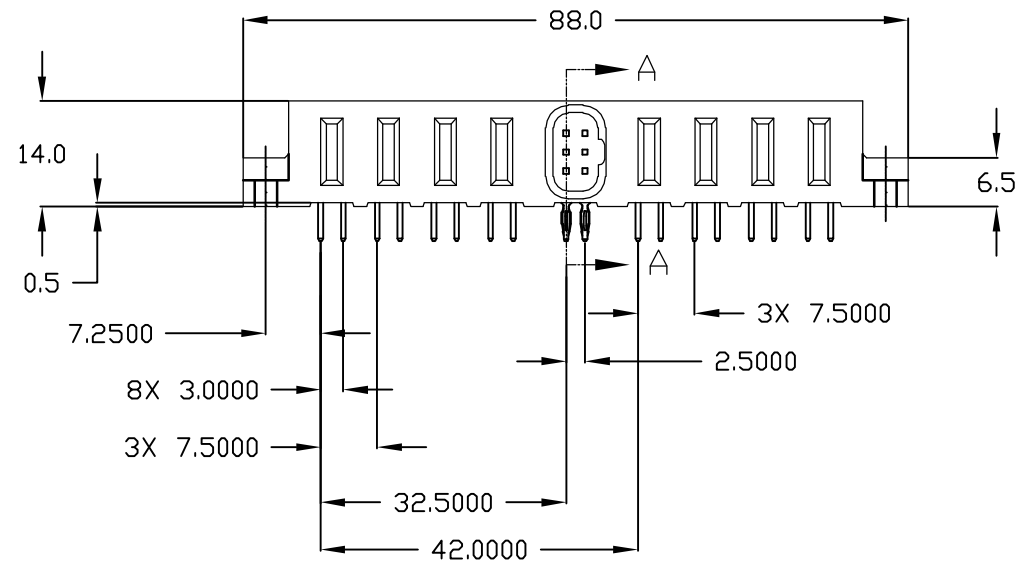
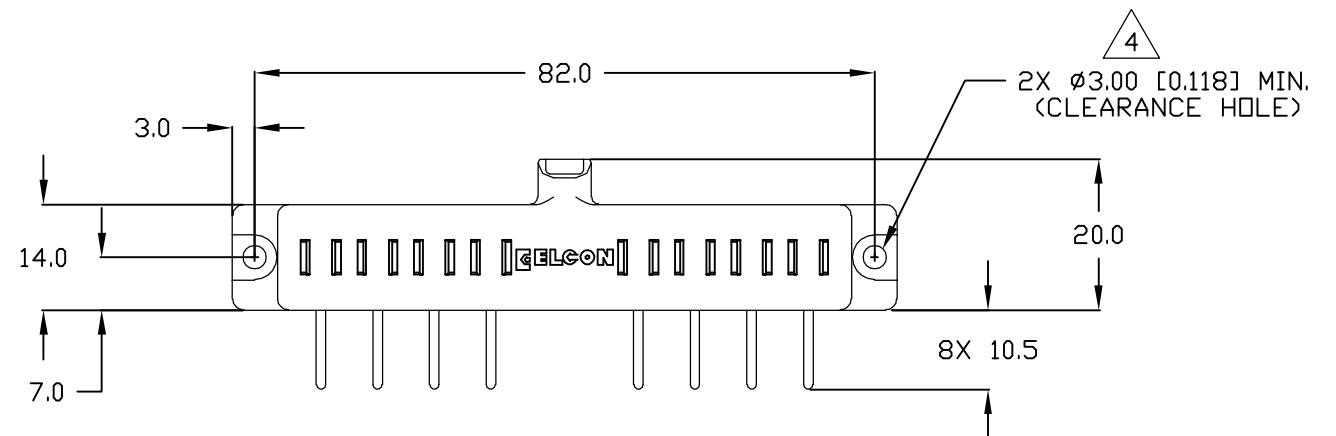
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SECTION A-A



PRINTED CIRCUIT LAYOUT

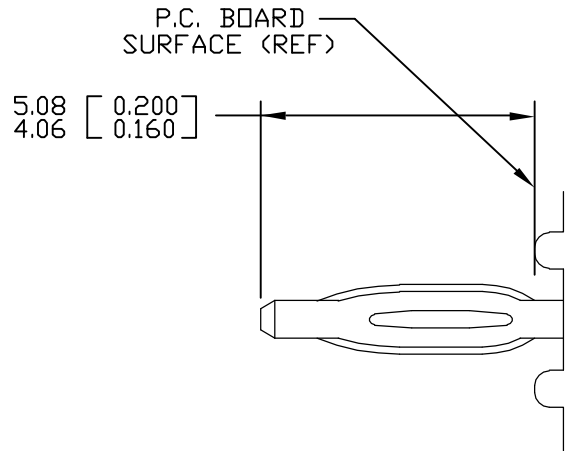


TYCO PART NUMBER

6646810-2

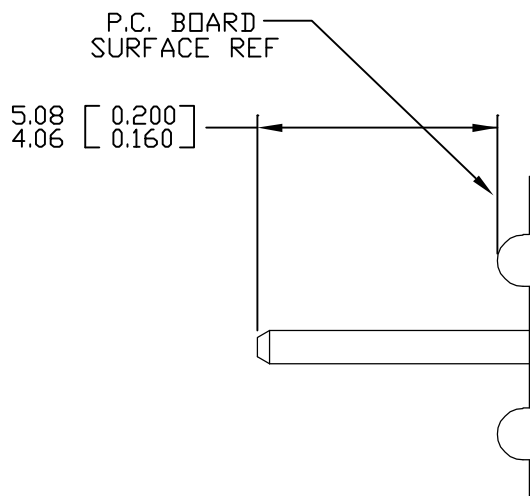
MM INCH OR MM [INCH] THIRD ANGLE PROJECTION UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN METRIC [INCHES] TOLERANCES ANGLES ± .5° DECIMALS .XX ± .25 [0.010] .X ± .5 [0.020]	DRAWN R. F. A.	DATE 2/2/06	tyco Tyco Electronics Corporation Electronics Menlo Park, Ca 94025 ELCON	
	CHECKED		TITLE PIN CONNECTOR, FLATPAQ RIGHT ANGLE, COMPLIANT TAILS	
	APPROVED		SIZE B	
	APPROVED D. CHAU	2/2/06	DWG NUMBER C = 6646810	
	DCA APPROVED		REV. A	
ACAD FILE NUMBER		C6646810A.DWG		DWG SCALE 1=1 SH 3 OF 4

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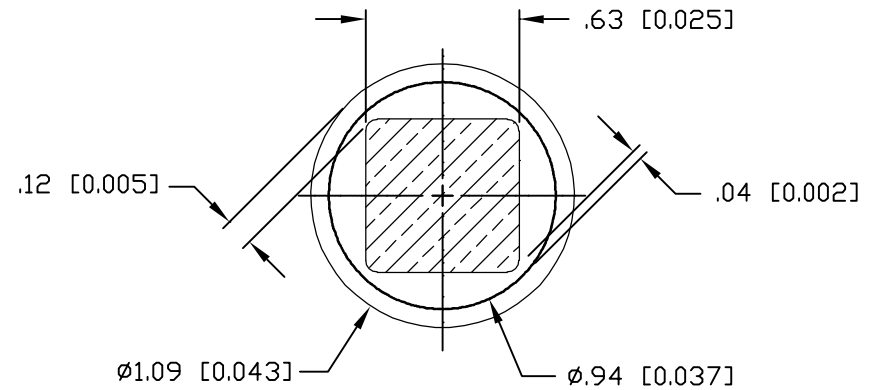


7. COMPLIANT PIN DETAIL
INSERTION/EXTRACTION FORCES

MAXIMUM PUSH-IN: 133.3N PER PIN
[30 LBS]
MINIMUM PUSH-OUT: 44.4N PER PIN
[10 LBS]

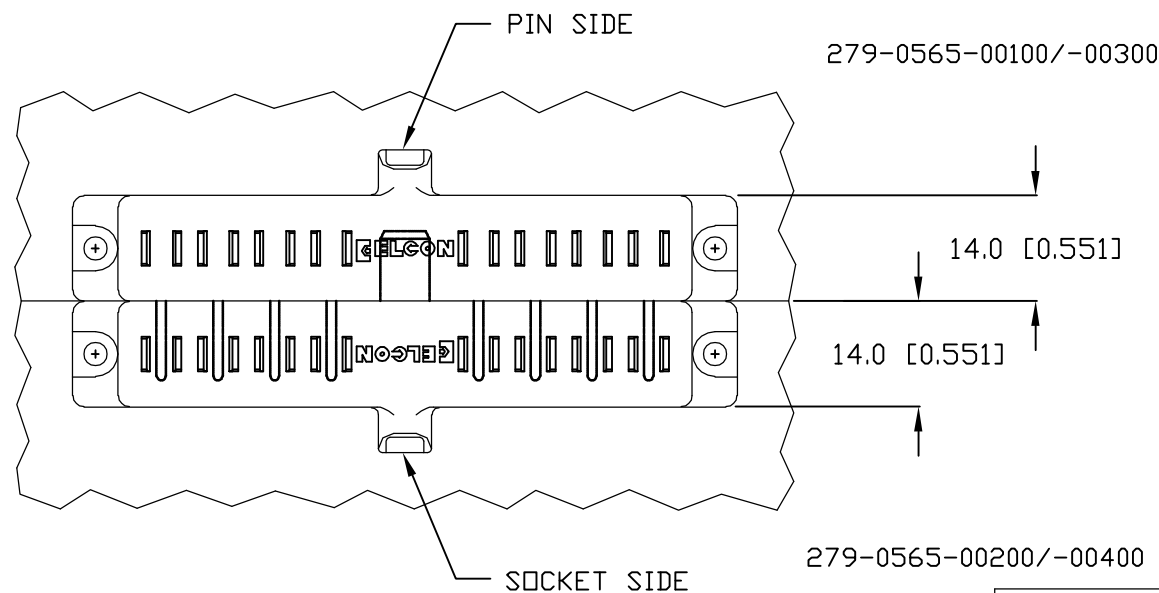
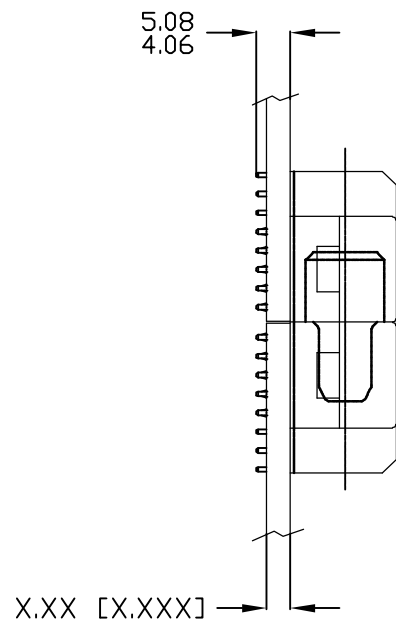


8. SOLDER PIN DETAIL



9. SOLDER TERMINATION AREA

RECOMMENDED PRINTED CIRCUIT HOLE
DRILLED HOLE: Ø1.15 [0.0453] ±.013 [0.0005]
COPPER PLATE: .025-.050 [0.001-.002] MINIMUM (PER SURFACE)
TIN PLATE: .0005 [0.00002] MINIMUM (PER SURFACE)



MATED CONDITION

← MM INCH OR MM [INCH] THIRD ANGLE PROJECTION UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN METRIC [INCHES] TOLERANCES ANGLES ± .5° DECIMALS .XX ± .25 [0.010] .X ± .5 [0.020]	DRAWN R. F. A.	DATE 2/2/06	tyco Tyco Electronics Corporation Electronics Menlo Park, Ca 94025 ELCON	
	CHECKED		TITLE	
	APPROVED		USER INFORMATION	
	APPROVED D. CHAU	2/2/06	SOLDER & COMPLIANT TAIL TERMINATION AND MATED CONDITION	
ACAD FILE NUMBER		C6646810A.DWG	SIZE B	REV. A
		DWG SCALE	1=1	SH 4 OF 4

Mouser Electronics

Authorized Distributor

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[6646810-2](#)