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REVISIONS

SYM	ECN	DESCRIPTION	DATE	APPROVED
A	HK3678	PRELIMINARY RELEASE	8/26/05	Raymond

NOTE:

1. INTERPRET DRAWING PER ASME Y14.5N 1994.

MATERIAL

HOUSING: THE MATERIAL USED IS AMODEL FR-6145, UL94V-0, 45% GLASS-REINFORCED POLYPHTHALAMIDE(PPA)
COLOR:BLACK

CONTACTS: COPPER ALLOY

PLATING: ALL PINS: 1.27UM NICKEL UNDER PLATING OVERALL
0.76um MINIMUM GOLD PLATING ON CONTACT MATING
AREA; POINT OF MEASUREMENT IS 1.0mm
IN FRONT OF DATUM -B-
2.54um MINIMUM MATTE TIN SOLDER TAIL

SPECIFICATIONS:

RATID CURRENT:

SIGNAL PIN 1.5A MIN

POWER PIN 1.5A MIN

TEST PIN 2.0A MIN

1000V FOR 1 MINUTE

DIELECTRIC STRENGTH:

1x10³ MΩ

INSULATION RESISTANCE:

TEMPERATURE:

-40°C TO +105°C

CONTACT RESISTANCE:

30mΩ MAX

PIN RETENTION FORCE:

10N MIN. TOTAL (2.25 LB)

REF. PCB DESIGN THICKNESS: 1.22±0.12MM (.048±.005in.)

PLACE VENDOR AND CAVITY IDENTIFICATION AS INDICATED

PIN LOCATION AND TOLERANCE APPLIES TO BOTH THE INTERFACE
AND SOLDER TAIL ENDS ON PINS.

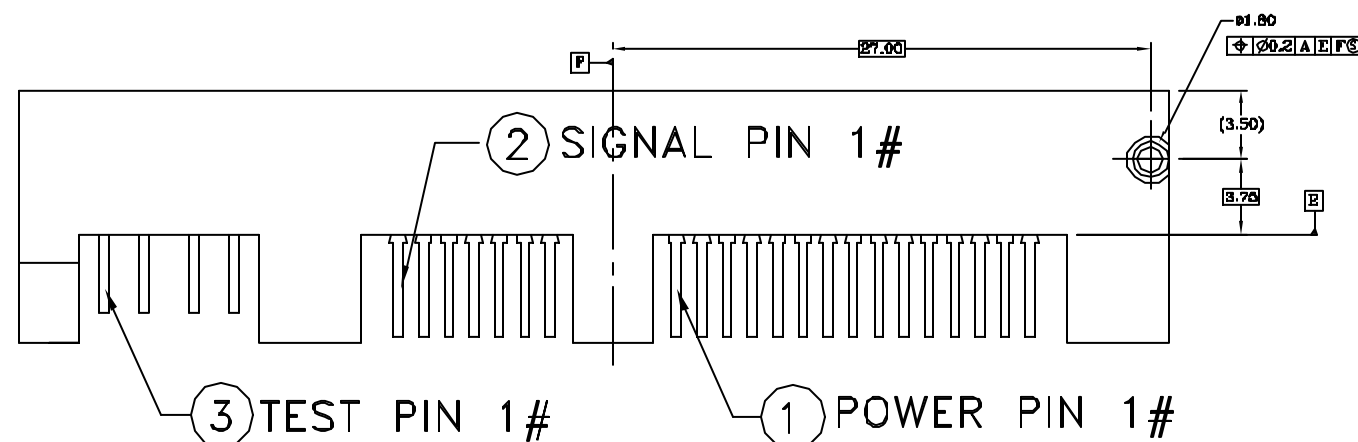
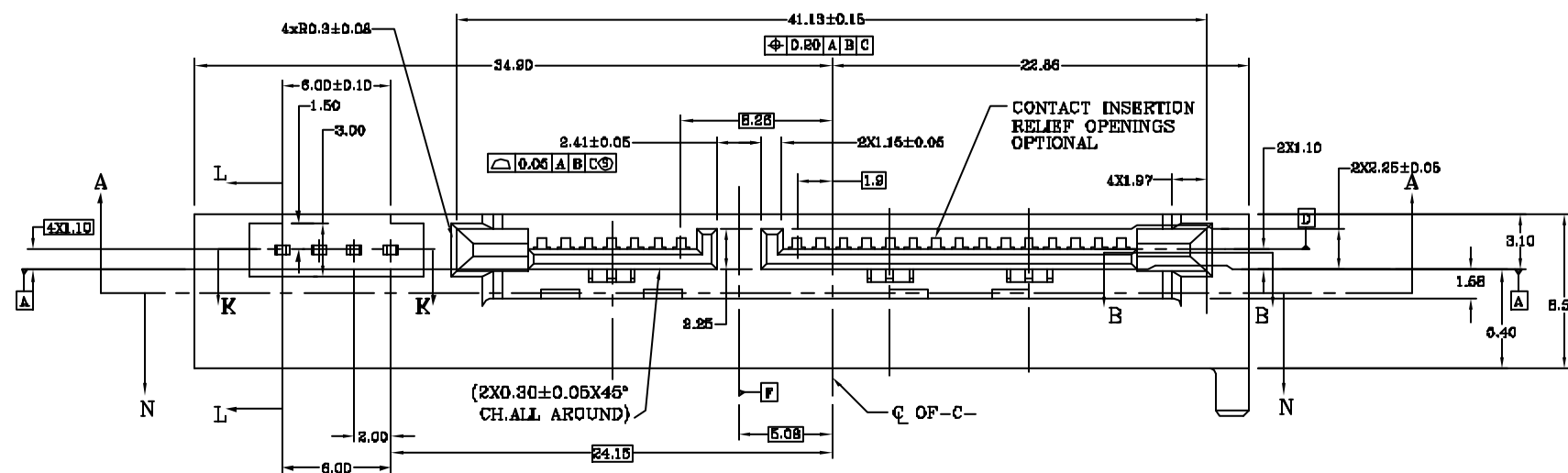
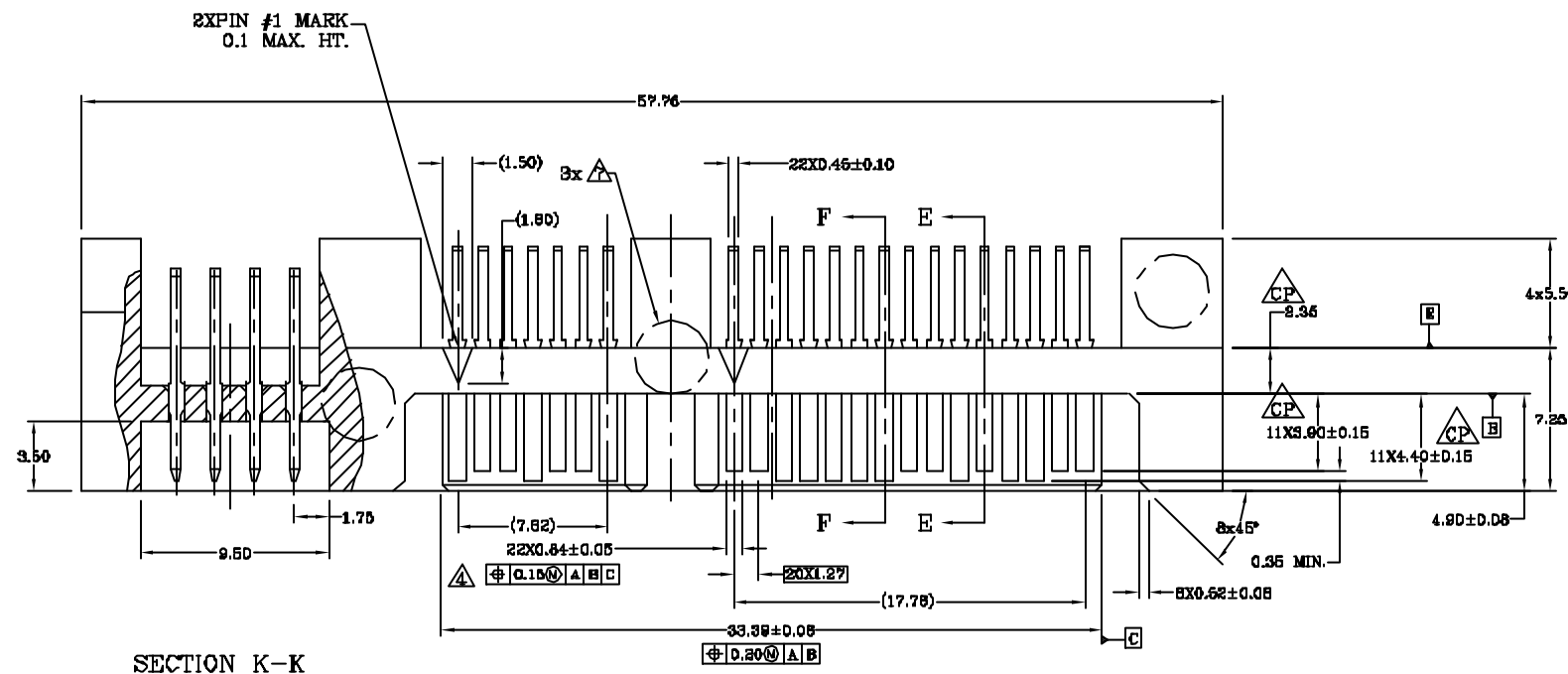
5. GATES, FLASH, EJECTOR PIN MARKS, AND AMPHENOL LOGO MUST BE
BELOW OR FLUSH TO 0.12 MAX. ABOVE PART SURFACE. EJECTOR PIN AND
PARTING LINE LOCATIONS MUST BE APPROVED BY ENGINEERING.

6. DRAFT OPTIONAL: TO BE 3 DEG.MAX. TO SUBTRACT MASS.

VACUUM PICKUP AREA: MUST BE FREE OF ANY SURFACE DISCONTINUITIES.

8. COMPONENTS MUST BE CLEANED TO THE BEST COMMERCIAL PRACTICES
AVAILABLE WHICH WILL LEAVE NO CONTAMINATION.MATERIAL RESIDUES. OR
PROCESS RESIDUES WHICH ARE VISIBLE TO THE UNDED EYE. SUPPLIERS
ARE CAUTIONED AGAINST USING PROCESS FLUIDS OR MATERIALS CONTAINING
SILICONE OIL, CHLORINATED SOLVENTS, OR PHTHALATE PLASTICIZERS.

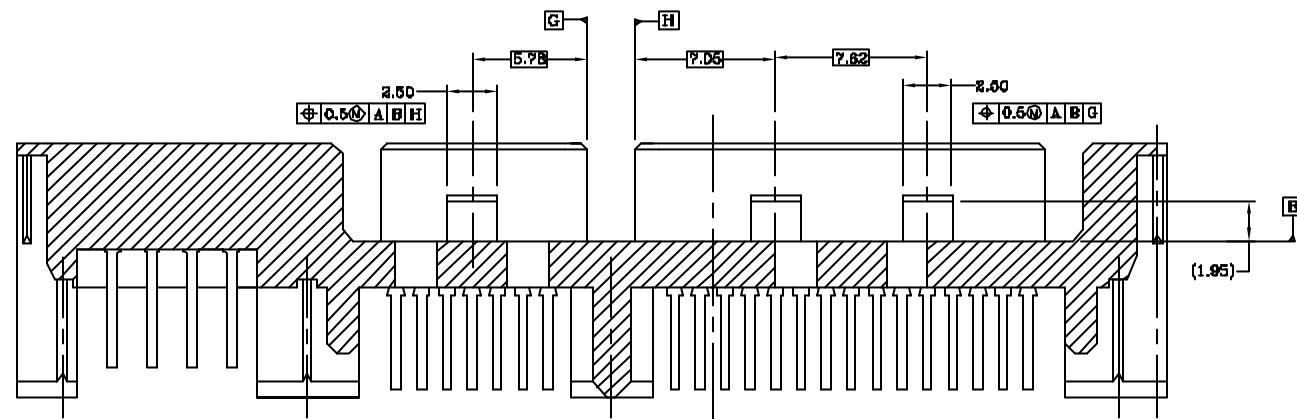
NOTES CONTINUED ON SHT.3



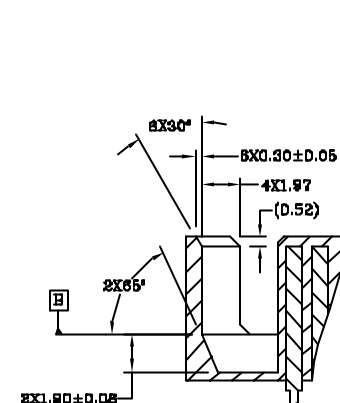
Customer Drawing

UNLESS OTHERWISE SPECIFIED TOLERANCES U.S. METRIC X +/- 0.20 .XX +/- 0.10 XXX +/- FRACTIONS +/- ANGLES +/- 2° FOR MATERIALS AND FINISHES SEE NOTES REMOVE SHARP EDGES DIMENSIONS U.S. INCHES (METRIC) (MM)	APPROVAL		DATE		Amphenol		
	DRAWN Vigor Zhou		8/1/05				
	CHECKED Raymond		8/1/05		TITLE CONN,I/O W/SHUNT SATA,SABRE II LF		
	CHECKED						
	DRAWING FILE :		\\DRAWING\\SATA\\CSATA00100161.DWG		SIZE A3		
ANGLE OF PROJECTION							
				DRAWING NO. C SATA-001-0016-1		REV. A	
				SCALE NONE		SHEET 1 OF 3	

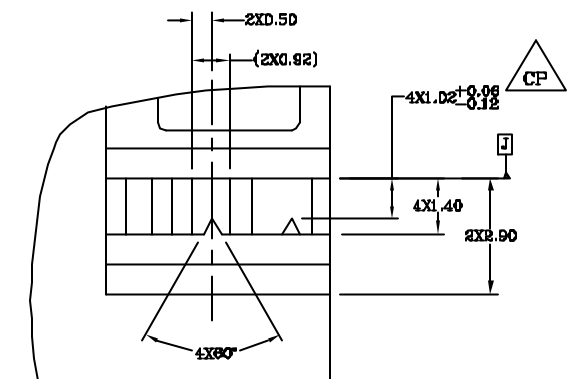
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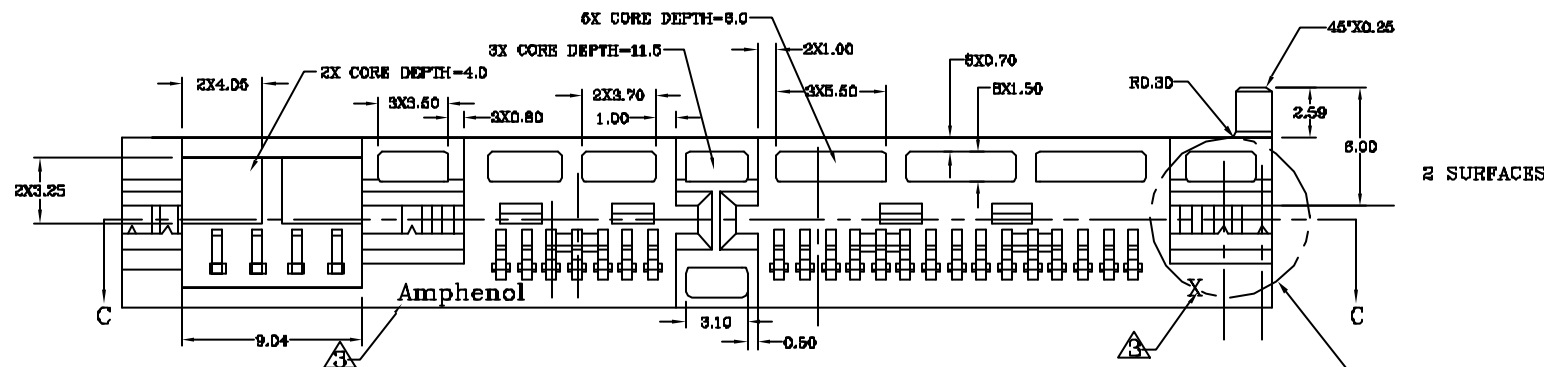
SECTION A-A



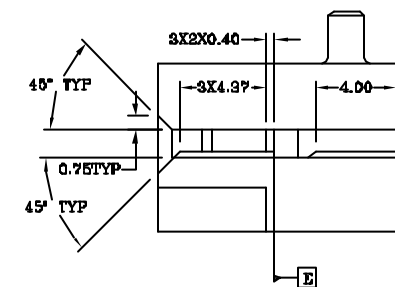
SECTION B-B



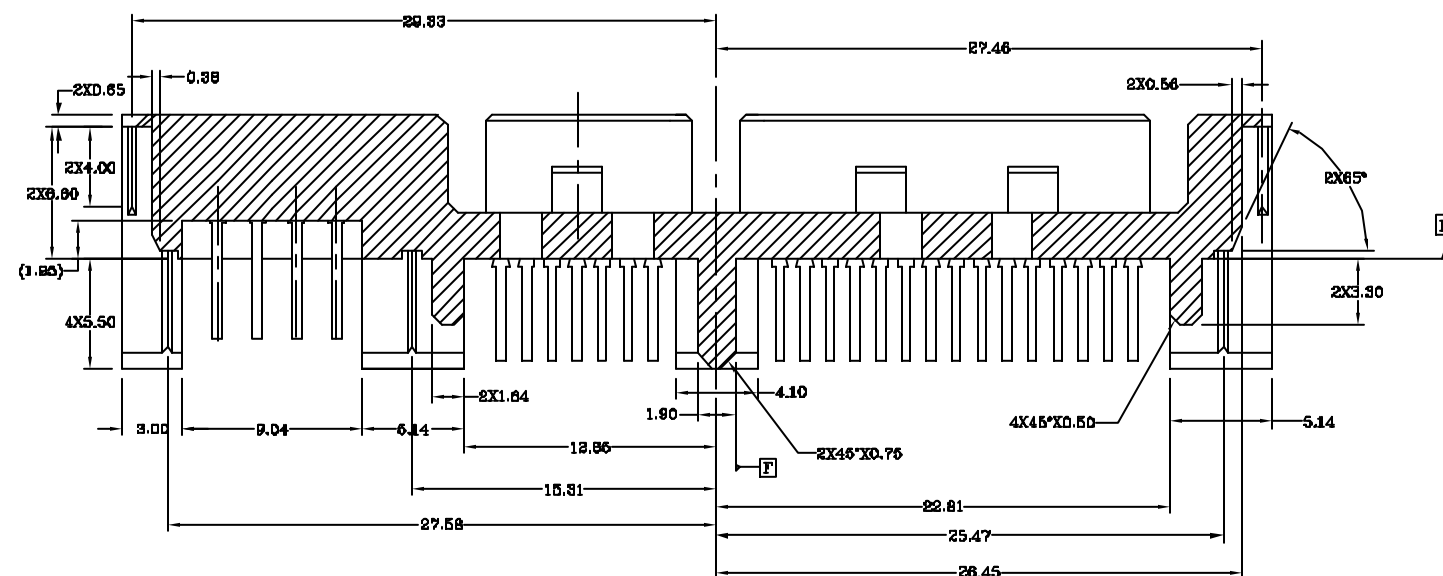
DETAIL D



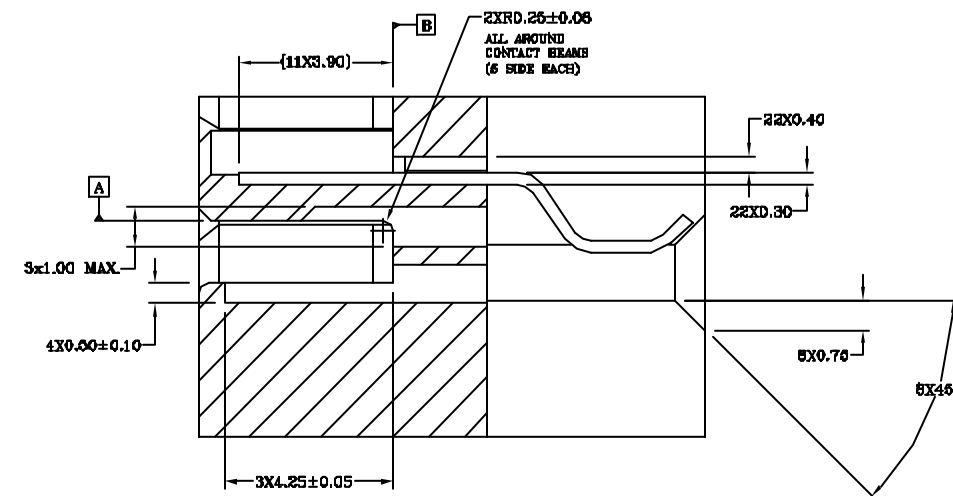
REAR VIEW



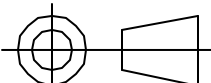
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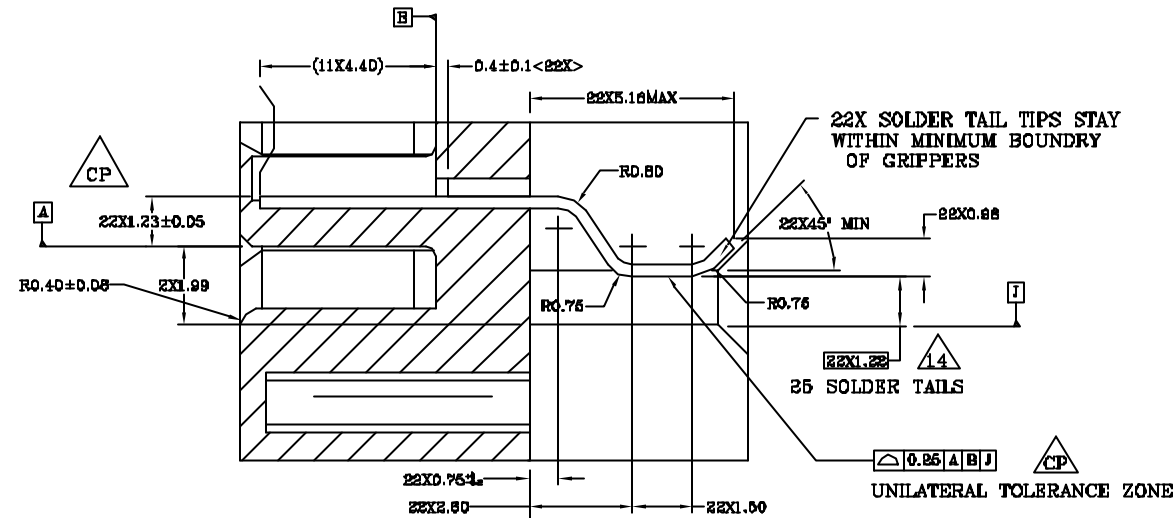
SECTION C-C



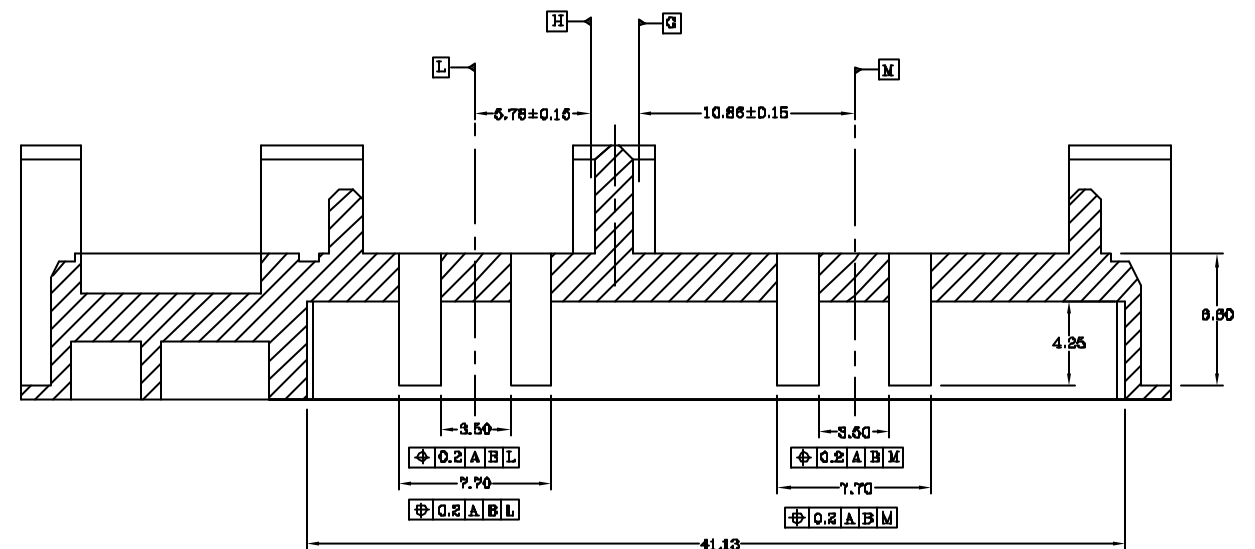
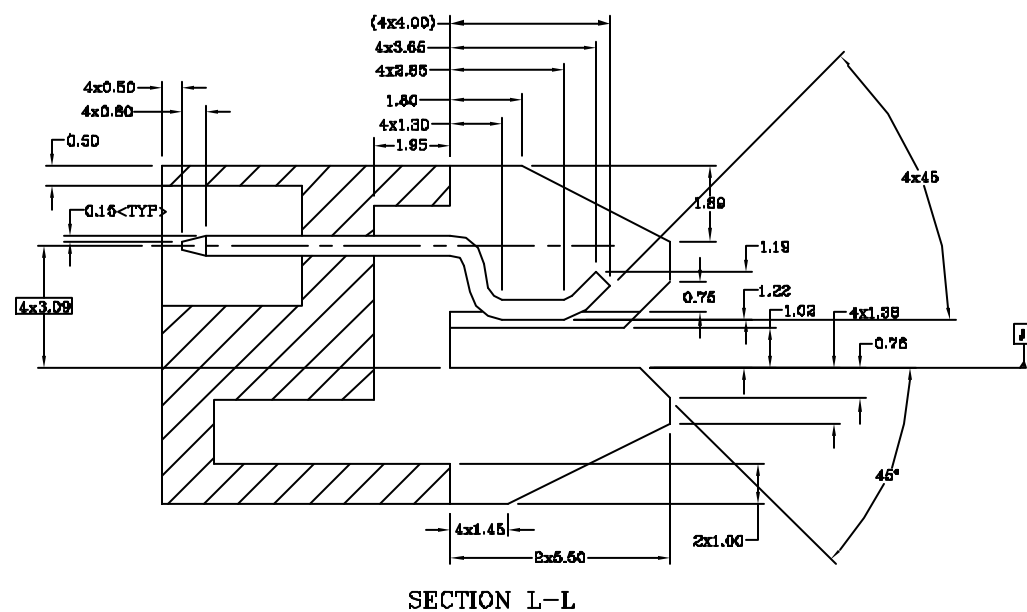
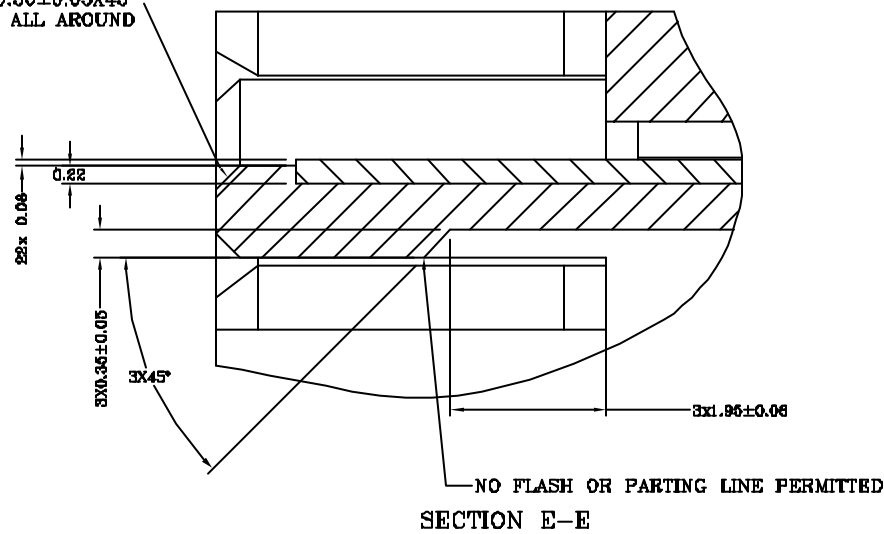
Customer Drawing

UNLESS OTHERWISE SPECIFIED TOLERANCES				APPROVAL		DATE		Amphenol					
				DRAWN		Vigor Zhou						8/1/05	
				CHECKED		Raymond						8/1/05	
				CHECKED									
X +/-				U.S.		METRIC		D.20		TITLE CONN,I/O W/SHUNT SATA,SABRE II LF			
.XX +/-								0.10					
.XXX +/-													
FRACTIONS +/-													
ANGLES +/-						2°							
FOR MATERIALS AND FINISHES SEE NOTES								DRAWING FILE :					
								\DRAWING\DATA\CSATA00100161.DWG					
REMOVE SHARP EDGES								ANGLE OF PROJECTION					
													
DIMENSIONS													
— U.S. —								SIZE		DRAWING NO.		REV.	
								A3		C SATA-001-0016-1		A	
(METRIC)				(MM)				SCALE		NONE		SHEET 2 OF 3	

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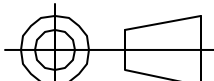
2X0.30±0.05X45°
CHAMFER ALL AROUND



NOTES CONTINUED:

9. A MATERIAL CERTIFICATION MUST BE FURNISHED BY EACH SUPPLIER AND BE ON FILE AT EACH USING LOCATION. THE CERTIFICATION MUST CONTAIN THE SUPPLIER'S NAME, THE MATERIAL MANUFACTURER'S NAME, AND STATEMENTS OF CONFORMANCE TO THE SUPPLIER'S RESPECTIVE MATERIAL AND THE UL REQUIREMENTS STATED IN NOTE 1.
10. PACKAGING: COMPONENT PACKAGING TO BE COORDINATED WITH MAXTOR SUPPLIER ENGINEERING AND PCBA SUPPLIERS.
11. CONNECTOR COMPATIBILITY: THIS CONNECTOR IS INTENDED TO BE MATED WITH CONNECTORS CONFORMING TO SERIAL ATA: HIGH SPEED SERIALIZED AT ATTACHMENT SPEC 1.0 OR HIGHER.
12. CONNECTOR MATING AND UNMATING FORCE TO BE PER SATA SPEC 1.0 OR HIGHER WHEN MATED WITH CONNECTORS CONFORMING TO NOTE 11 OF THIS DRAWING. (REF 45N MAX TOTAL INSERTION FORCE AND 10N MIN. TOTAL REMOVAL FORCE)
13. UNDIMENSIONED CONTACT HOUSING RETENTION AND CORE WINDOW FEATURE DETAILS ARE SUPPLIER OPTIONAL. SUPPLIER CONFIGURATION OPTIONS MUST BE APPROVED BY MAXTOR ENGINEERING.
14. THE DIM. SHOULD BE NEGATIVE TOLERANCE AND MAX 1.22 mm.
15. MATERIAL SHOULD BE FULFILLED AMPHENOL SPEC. #SSN 001.
16. CRITICAL PARAMETER. SUPPLIER MUST DEMONSTRATE MINIMUM CPK OF 1.3 WHERE APPLICABLE. OTHERWISE, OTHER STATISTICAL CONTROL METHODS MUST BE APPROVED BY MAXTOR ENGINEERING AND SUPPLIER QUALITY ENGINEERING.

Customer Drawing

UNLESS OTHERWISE SPECIFIED TOLERANCES		APPROVAL		DATE		Amphenol					
U.S. METRIC		DRAWN		Vigor Zhou						8/1/05	
X +/- 0.20		CHECKED		Raymond						8/1/05	
.XX +/- 0.10		CHECKED									
.XXX +/- 2°		DRAWING FILE :				TITLE CONN,I/O W/SHUNT SATA,SABRE II LF					
FRACTIONS +/-		\DRAWING\SATA\CSATA00100161.DWG									
ANGLES +/-		ANGLE OF PROJECTION									
FOR MATERIALS AND FINISHES SEE NOTES											
REMOVE SHARP EDGES				SIZE		DRAWING NO.				REV.	
DIMENSIONS				A3		C SATA-001-0016-1				A	
U.S. INCHES				SCALE		NONE				SHEET 3 OF 3	
(METRIC) (MM)											