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Part Number:

0877131001

Status:

Active

Description:

1.27mm (.050") Pitch Serial ATA Host Receptacle, Surface Mount, Vertical, Standard Height, with 3.70mm (.145") Plastic Locating Peg, 0.76µm (30µ") Gold (Au) Selective Plating, 22 Circuits, Leadfree

Documents:

3D Model

Drawing (PDF)

Product Specification PS-87713-016 (PDF)

RoHS Certificate of Compliance (PDF)

General

Product Family

Series

Application

Comments

Product Literature Order No

Product Name

PCB Receptacles

87713

Board-to-Board

3.70mm (.145") Plastic Locating Peg

SNG-029

Serial ATA

Physical

Circuits (Loaded)

Circuits Detail

Durability (mating cycles max)

Glow-Wire Compliant

Lock to Mating Part

Material - Metal

Material - Plating Mating

Material - Plating Termination

Material - Resin

Number of Rows

Orientation

PCB Locator

PCB Retention

Packaging Type

Pitch - Mating Interface (in)

Pitch - Mating Interface (mm)

Plating min: Mating (µin)

Plating min: Mating (µm)

Plating min: Termination (µin)

Plating min: Termination (µm)

Polarized to Mating Part

Polarized to PCB

Surface Mount Compatible (SMC)

Temperature Range - Operating

Termination Interface: Style

22

Power 15 pins|Signal 7 pins

500

No

Yes

Copper Alloy

Gold

Tin

High Temperature Thermoplastic

1

Vertical

Yes

None

Tray

0.050 In

1.27 mm

30

0.76

100

2.54

Yes

Yes

N/A

-40°C to +105°C

Surface Mount

Electrical

Current - Maximum per Contact

Voltage - Maximum

1.5A

30V

Solder Process Data

Duration at Max. Process Temperature (seconds)

Lead-free Process Capability

Max. Cycles at Max. Process Temperature

Process Temperature max. C

10

Reflow Capable (SMT only)

1

260

Material Info

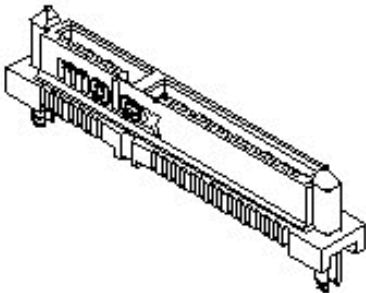


image - Reference only

Series

EU RoHS

ELV and RoHS

Compliant

REACH SVHC

Contains SVHC: No

Halogen-Free

Status

China RoHS



Need more information on product environmental compliance?

Email productcompliance@molex.com

For a multiple part number RoHS Certificate of Compliance, [click here](#)

Please visit the [Contact Us](#) section for any non-product compliance questions.

Search Parts in this Series

87713Series

Mates With

87679 , 87799 , 87703

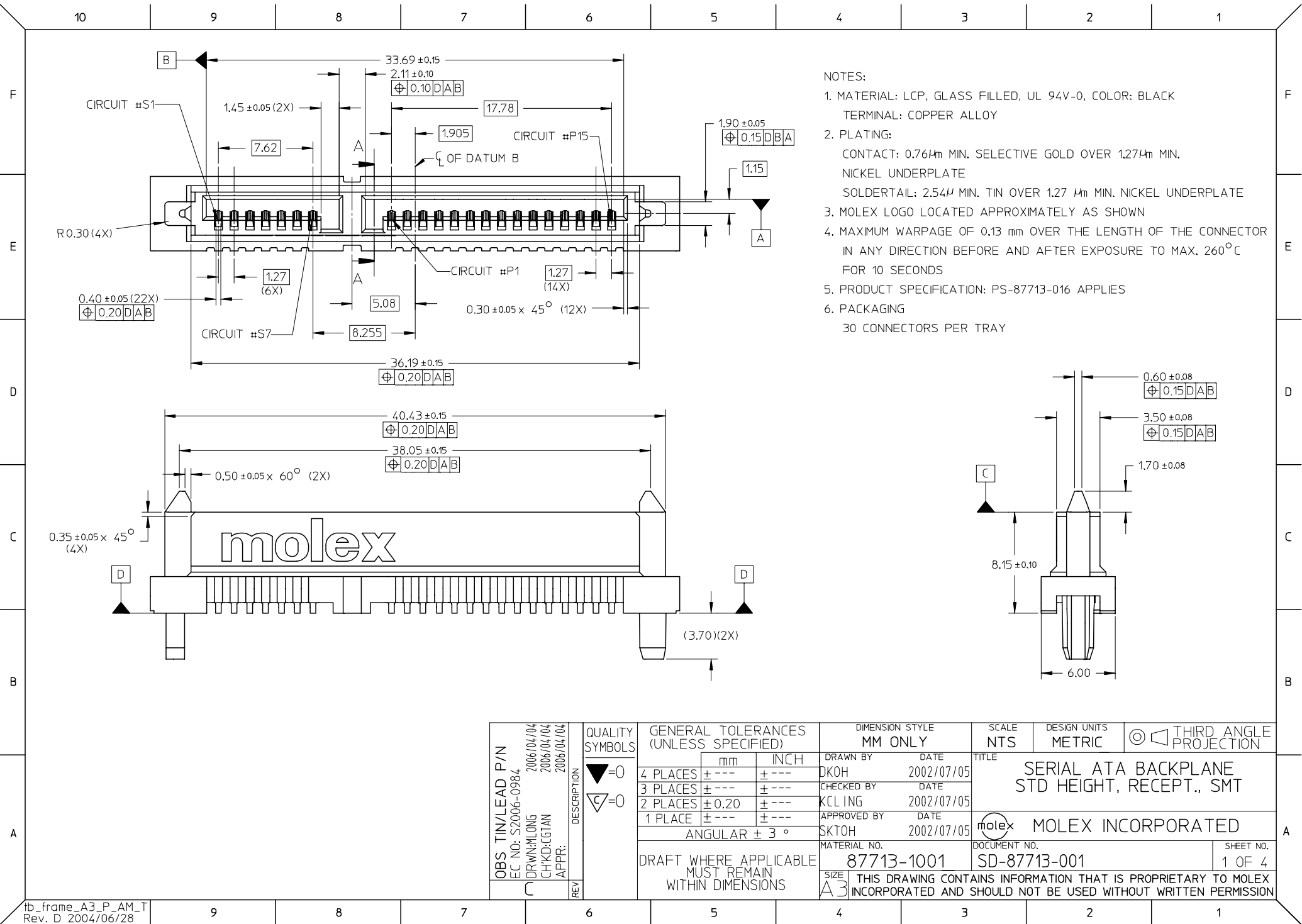
Reference - Drawing Numbers

Product Specification
Sales Drawing

PS-87713-016
SD-87713-001

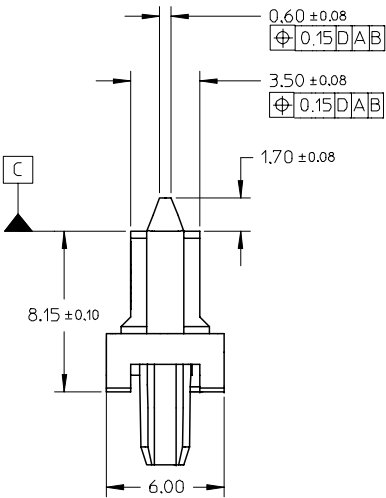
This document was generated on 03/29/2010

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NOTES:

1. MATERIAL: LCP, GLASS FILLED, UL 94V-0, COLOR: BLACK
TERMINAL: COPPER ALLOY
2. PLATING:
CONTACT: 0.76 μ m MIN. SELECTIVE GOLD OVER 1.27 μ m MIN.
NICKEL UNDERPLATE
SOLDERTAIL: 2.54 μ MIN. TIN OVER 1.27 μ m MIN. NICKEL UNDERPLATE
3. MOLEX LOGO LOCATED APPROXIMATELY AS SHOWN
4. MAXIMUM WARPAGE OF 0.13 mm OVER THE LENGTH OF THE CONNECTOR
IN ANY DIRECTION BEFORE AND AFTER EXPOSURE TO MAX. 260°C
FOR 10 SECONDS
5. PRODUCT SPECIFICATION: PS-87713-016 APPLIES
6. PACKAGING
30 CONNECTORS PER TRAY



OBS TIN/LEAD P/N EC NO: S2006-0984 DRWN:MLONG CHKD:CGTAN APPR: REV C	DESCRIPTION 2006/04/04 2006/04/04 2006/04/04	QUALITY SYMBOLS ▽=0 ▽C=0	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE NTS	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION		
					DRAWN BY DKOH	DATE 2002/07/05	TITLE SERIAL ATA BACKPLANE STD HEIGHT, RECEPT., SMT				
					CHECKED BY KCL ING	DATE 2002/07/05					
					APPROVED BY SKTOH	DATE 2002/07/05	MOLEX MOLEX INCORPORATED				
			ANGULAR ± 3 °		MATERIAL NO. 87713-1001						
			DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SIZE A3	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION					

10 9 8 7 6 5 4 3 2 1

F

E

D

C

B

A

F

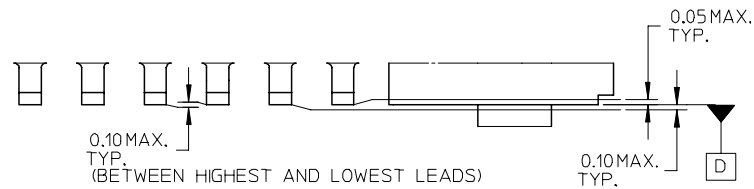
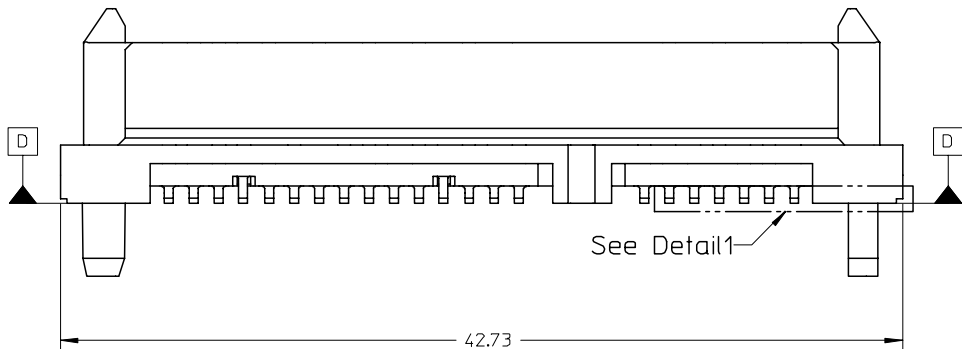
E

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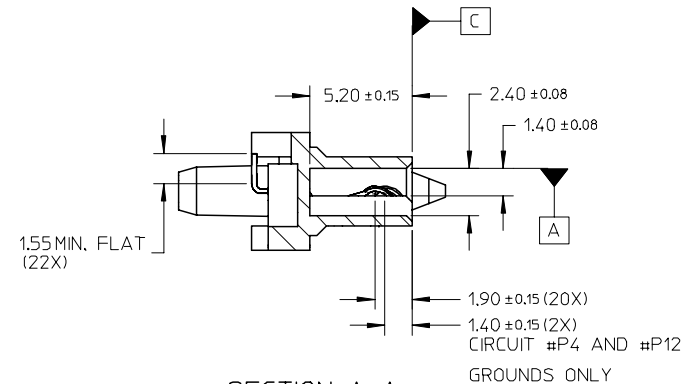
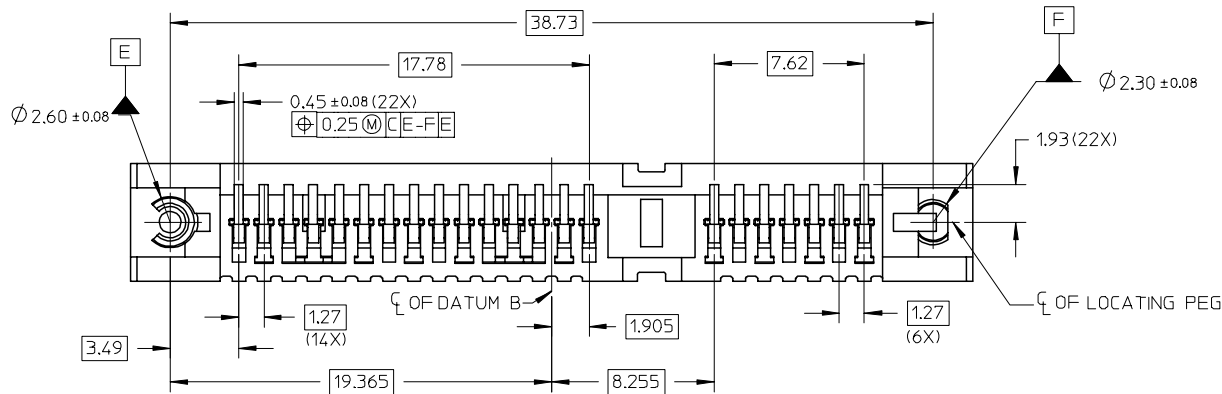
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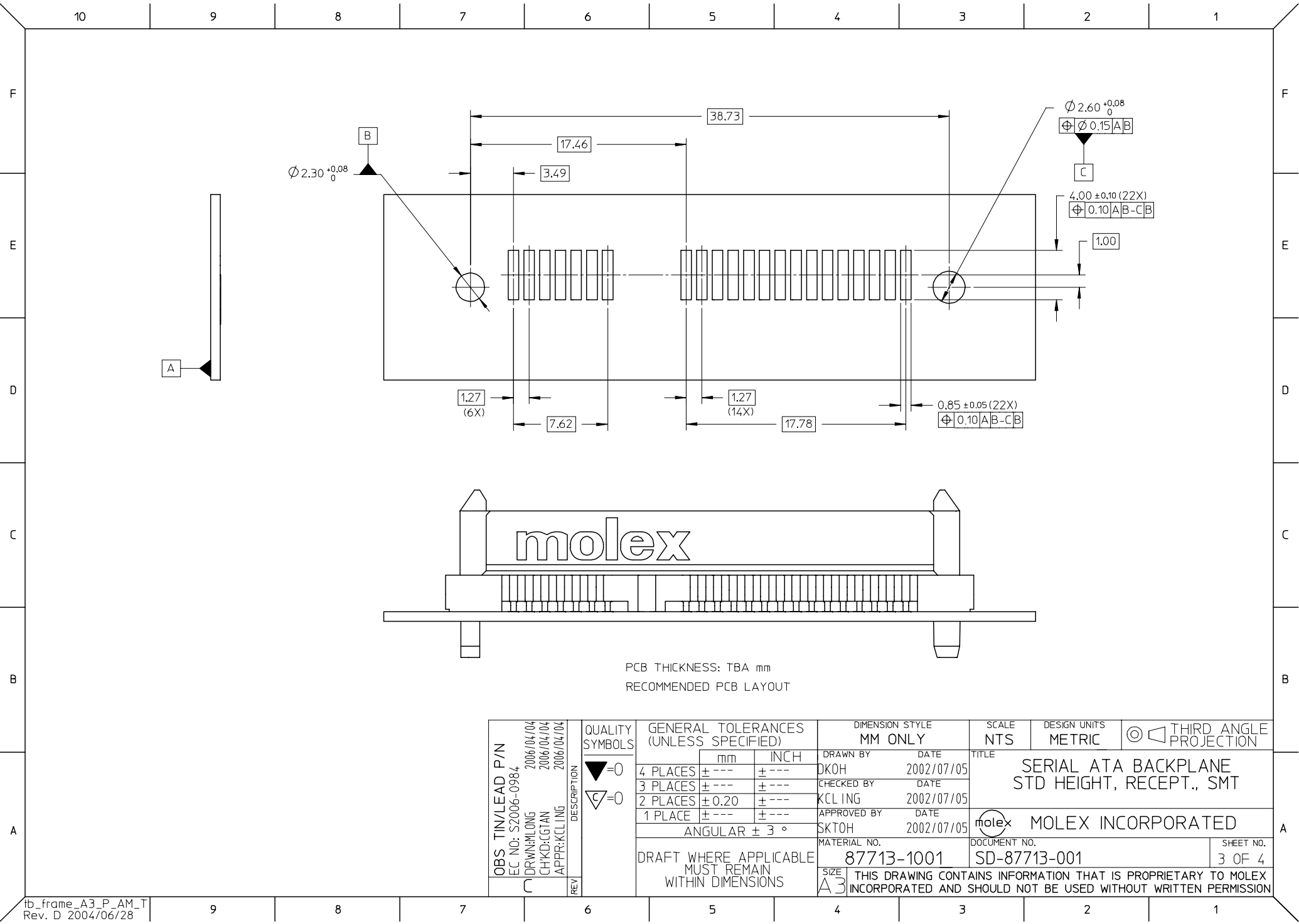
DETAIL 1



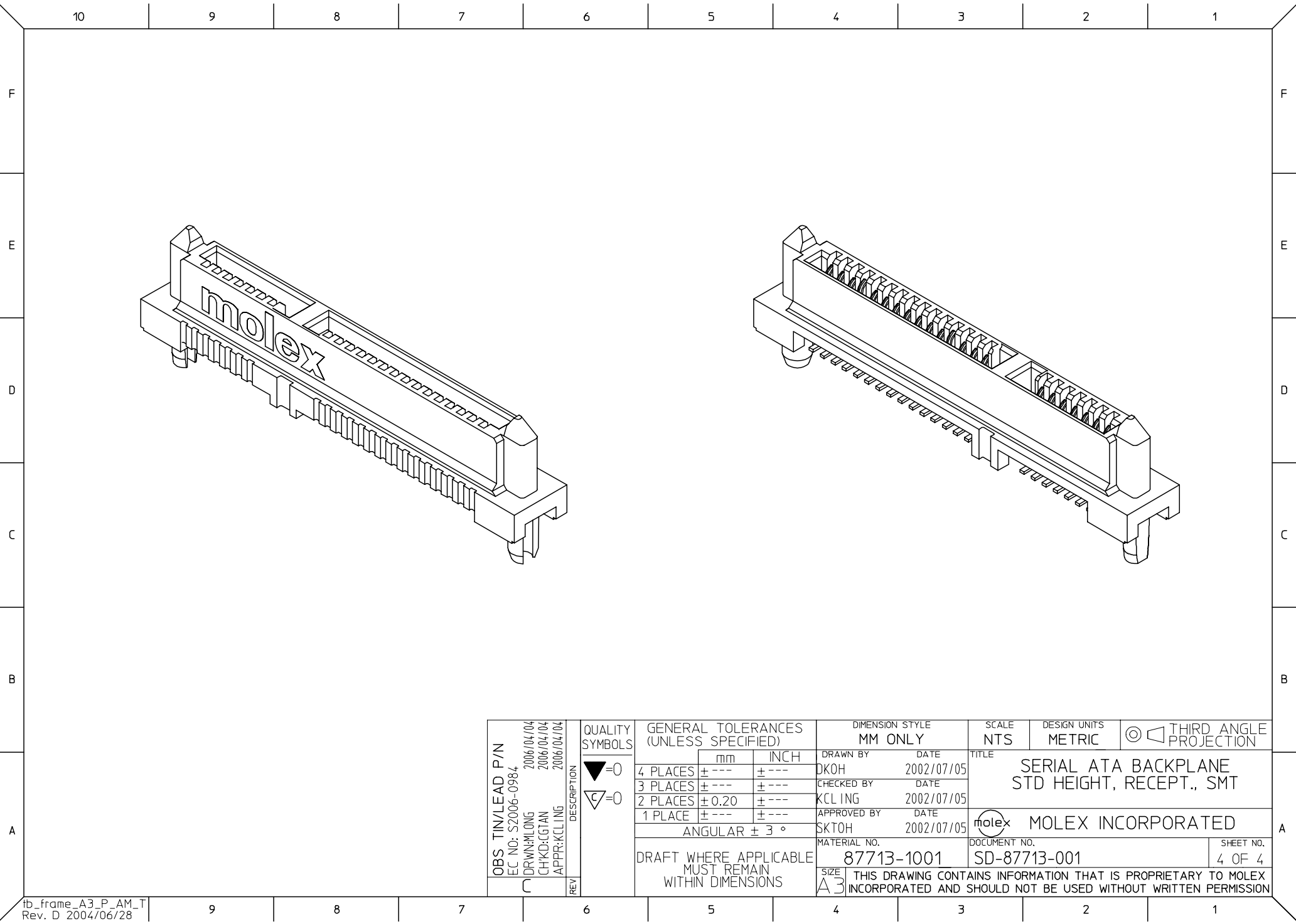
SECTION A-A

OBS TIN/LEAD P/N EC NO: S2006-0984 DRWN:MLONG CHKD:CGTAN APPR:KCLING	2006/04/04 2006/04/04 2006/04/04	DESCRIPTION REV	QUALITY SYMBOLS ▽=0 ▽C=0	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE NTS	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION		
					mm	INCH	DRAWN BY DKOH		DATE 2002/07/05		TITLE SERIAL ATA BACKPLANE STD HEIGHT, RECEPT., SMT	
				4 PLACES	± ---	± ---	CHECKED BY KCLING		DATE 2002/07/05			
				3 PLACES	± ---	± ---	APPROVED BY SKTOH		DATE 2002/07/05			
				2 PLACES	± 0.20	± ---	MATERIAL NO. 87713-1001		DOCUMENT NO. SD-87713-001		SHEET NO. 2 OF 4	
				1 PLACE	± ---	± ---	SIZE A3		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION			
				ANGULAR ± 3 °								
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS												

9 8 7 6 5 4 3 2 1



OBS TIN/LEAD P/N EC NO: S2006-0984 DRWN:MLONG CHKD:CGTAN APPR:KCLING REV C	DESCRIPTION	QUALITY SYMBOLS ▽=0 ▽=0	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE NTS	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION			
				mm	INCH	DRAWN BY DKOH	DATE 2002/07/05	TITLE SERIAL ATA BACKPLANE STD HEIGHT, RECEPT., SMT				
			4 PLACES	± ---	± ---	CHECKED BY	DATE					
			3 PLACES	± ---	± ---	KCL ING	2002/07/05					
			2 PLACES	± 0.20	± ---	APPROVED BY	DATE	MOLEX MOLEX INCORPORATED				
			1 PLACE	± ---	± ---	SKTOH	2002/07/05					
			ANGULAR ± 3 °			MATERIAL NO. 87713-1001		DOCUMENT NO. SD-87713-001		SHEET NO. 3 OF 4		
			DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS			SIZE A3		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION				



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						CHECKED BY KCLING	DATE 2002/07/05				
						APPROVED BY SKTOH	DATE 2002/07/05	MOLEX INCORPORATED			
			ANGULAR ± 3 °		MATERIAL NO. 87713-1001		DOCUMENT NO. SD-87713-001		SHEET NO. 4 OF 4		
	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SIZE A3	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION							
REV											