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Part Number: [0877811001](#)
Status: **Active**
Description: 1.27mm (.050") Pitch Serial ATA Host Receptacle, Surface Mount, Vertical, Extended Height, 0.76µm (30µ") Gold (Au) Selective, 22 Circuits, Leadfree

Documents:

[3D Model](#) [Product Specification PS-87781-005 \(PDF\)](#)
[Drawing \(PDF\)](#) [RoHS Certificate of Compliance \(PDF\)](#)

General

Product Family PCB Receptacles
Series [87781](#)
Application Board-to-Board
Product Literature Order No SNG-029
Product Name Serial ATA

Physical

Circuits (Loaded) 22
Circuits Detail Power 15 pins|Signal 7 pins
Durability (mating cycles max) 500
Glow-Wire Compliant No
Guide to Mating Part Yes
Lock to Mating Part None
Material - Plating Mating Gold
Material - Plating Termination Tin
Number of Rows 1
Orientation Vertical
PCB Locator Yes
PCB Retention None
Packaging Type Tray
Pitch - Mating Interface (in) 0.050 In
Pitch - Mating Interface (mm) 1.27 mm
Plating min: Mating (µin) 30.4
Plating min: Mating (µm) 0.76
Plating min: Termination (µin) 101.6
Plating min: Termination (µm) 2.54
Polarized to Mating Part Yes
Polarized to PCB Yes
Surface Mount Compatible (SMC) N/A
Temperature Range - Operating -40°C to +105°C
Termination Interface: Style Through Hole and Surface Mount

Electrical

Current - Maximum per Contact 1.5A
Voltage - Maximum 30V

Solder Process Data

Duration at Max. Process Temperature (seconds) 10
Lead-free Process Capability Reflow Capable (SMT only)
Max. Cycles at Max. Process Temperature 1
Process Temperature max. C 260

Material Info

Reference - Drawing Numbers

Product Specification PS-87781-005
Sales Drawing SD-87781-017

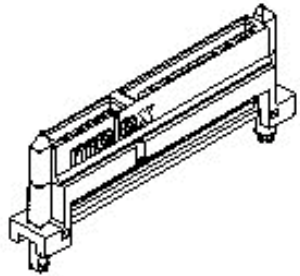


image - Reference only

Series

EU RoHS

**ELV and RoHS
Compliant**

REACH SVHC

Not Reviewed

Halogen-Free

Status

Halogen-Free

**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.

China RoHS



Search Parts in this Series

[87781Series](#)

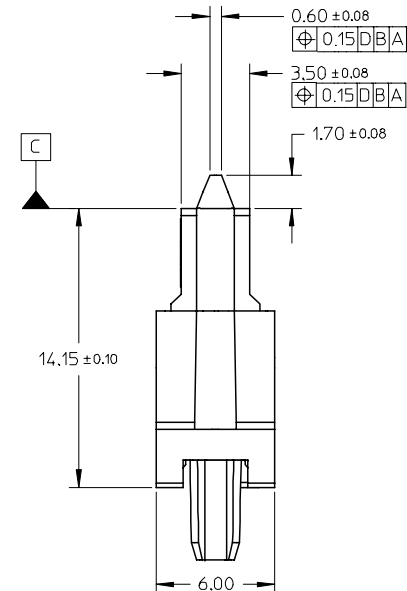
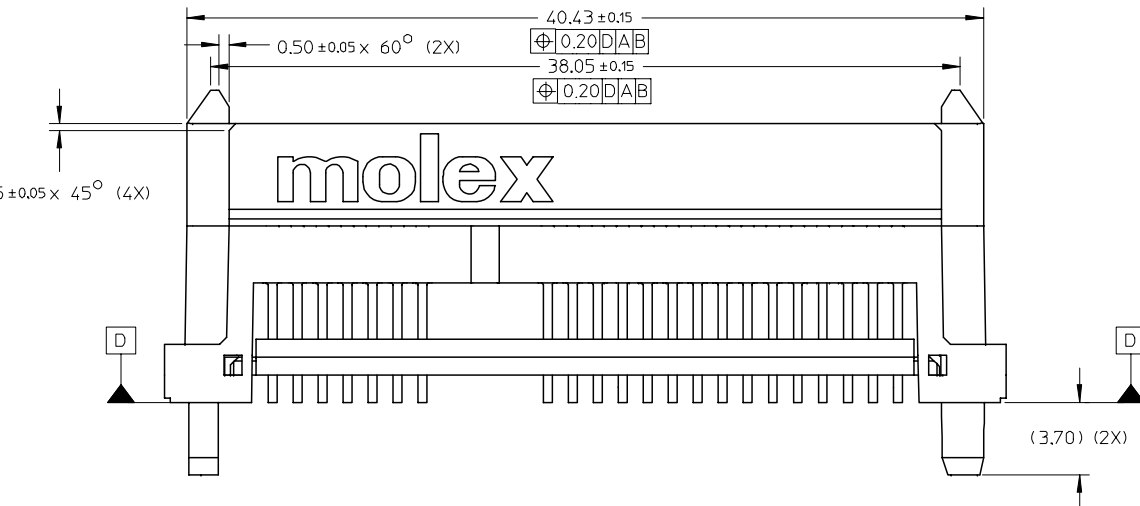
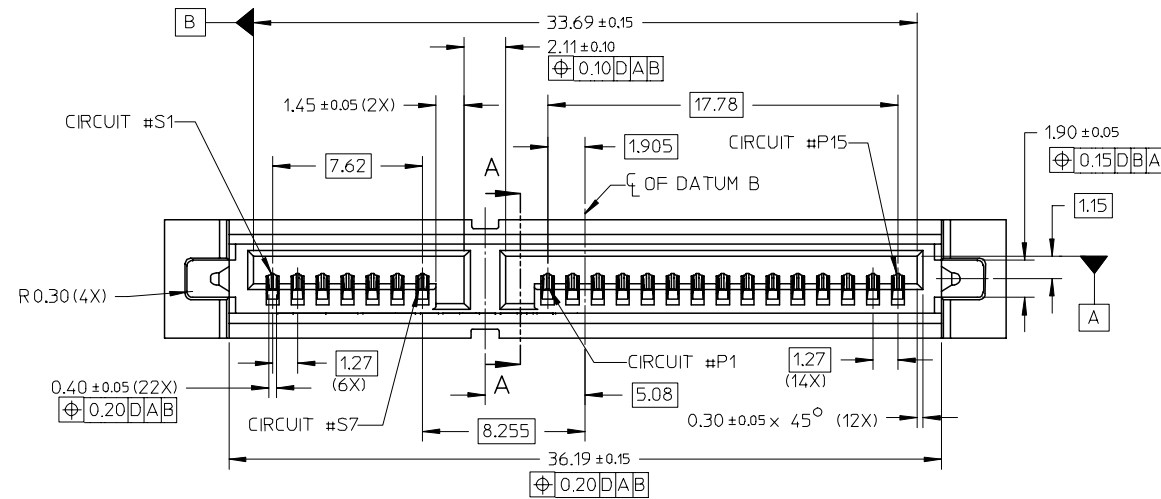
Mates With

[87679](#) , [87799](#) , [87703](#)

This document was generated on 04/09/2010

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10 9 8 7 6 5 4 3 2 1

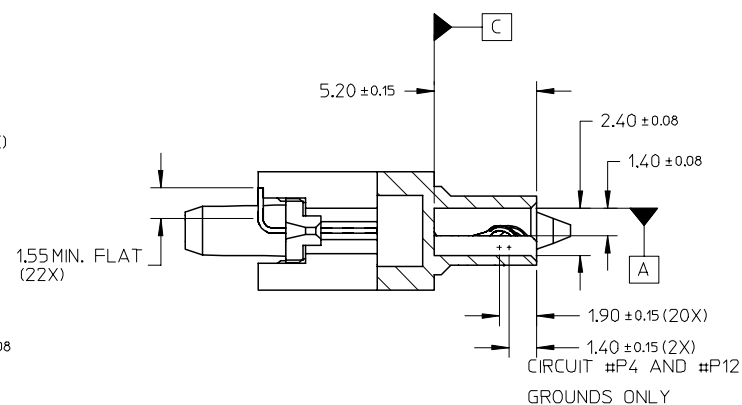
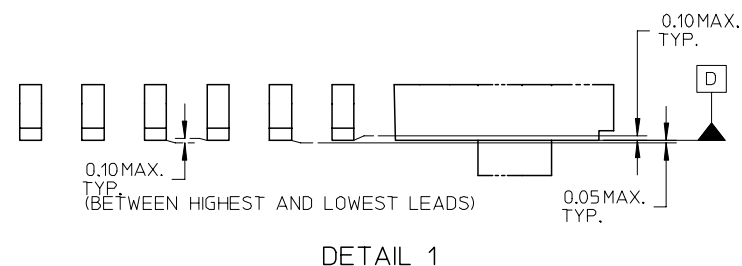


- NOTES:
1. MATERIAL: HIGH TEMPERATURE THERMOPLASTIC, UL 94V-0, COLOR: BLACK
TERMINAL: COPPER ALLOY
 2. PLATING
CONTACT: 0.76μm MIN. SELECTIVE GOLD
OVER 1.27μm MIN. NICKEL UNDERPLATE
SOLDERTAIL: 2.54μm MIN. TIN OVER 1.27μm MIN. NICKEL UNDERPLATE
 3. MOLEX LOGO LOCATED APPROXIMATELY AS SHOWN
 4. MAXIMUM 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-87781-005 APPLIES
 6. PACKAGING
30 CONNECTORS PER TRAY

THE DESIGN IS BASED ON DESIGN OBJECTIVES AND IS STRICTLY TENTATIVE. IT MAY CHANGE BASED ON RESULTS OF ADDITIONAL DESIGN REVIEWS & VERIFICATIONS

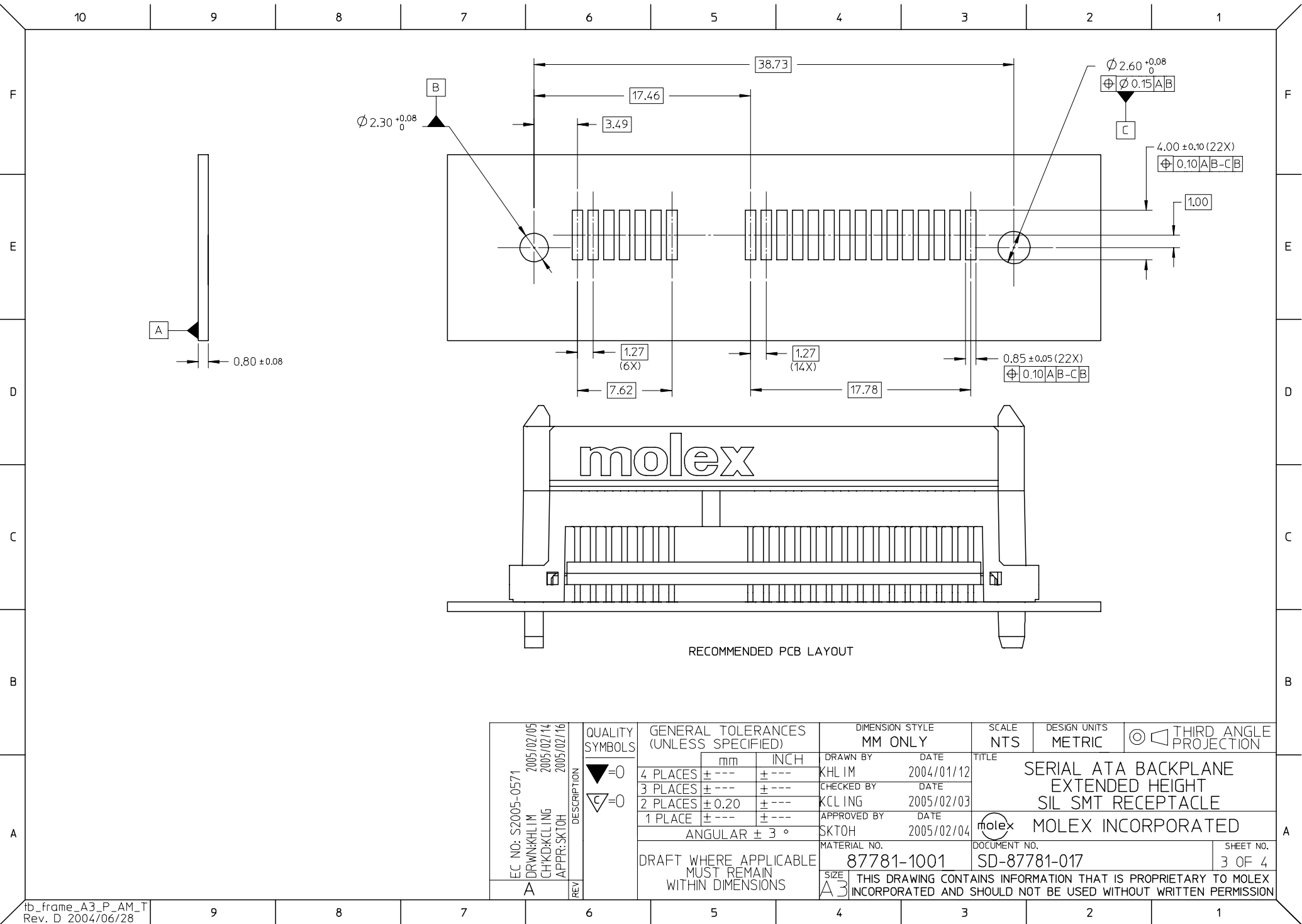
EC NO: S2005-0571			2005/02/05			2005/02/14			2005/02/16			QUALITY SYMBOLS ▽=0 ▽=0	GENERAL TOLERANCES (UNLESS SPECIFIED)			DIMENSION STYLE MM ONLY			SCALE NTS	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION		
DRWN:KHLIM CHKD:KCLING APPR:SKTOH			DESCRIPTION			▽=0			4 PLACES				± ---	± ---	DRAWN BY		DATE	TITLE SERIAL ATA BACKPLANE EXTENDED HEIGHT SIL SMT RECEPTACLE					
									3 PLACES				± ---	± ---	CHECKED BY		DATE						
									2 PLACES				± 0.20	± ---	KCLING		2005/02/03						
									1 PLACE				± ---	± ---	APPROVED BY		DATE						
									ANGULAR ± 3 °						SKTOH		2005/02/04						
A			REV			DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS			MATERIAL NO.				DOCUMENT NO.			SHEET NO.							
									87781-1001				SD-87781-017			1 OF 4							
									SIZE A3				THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION										

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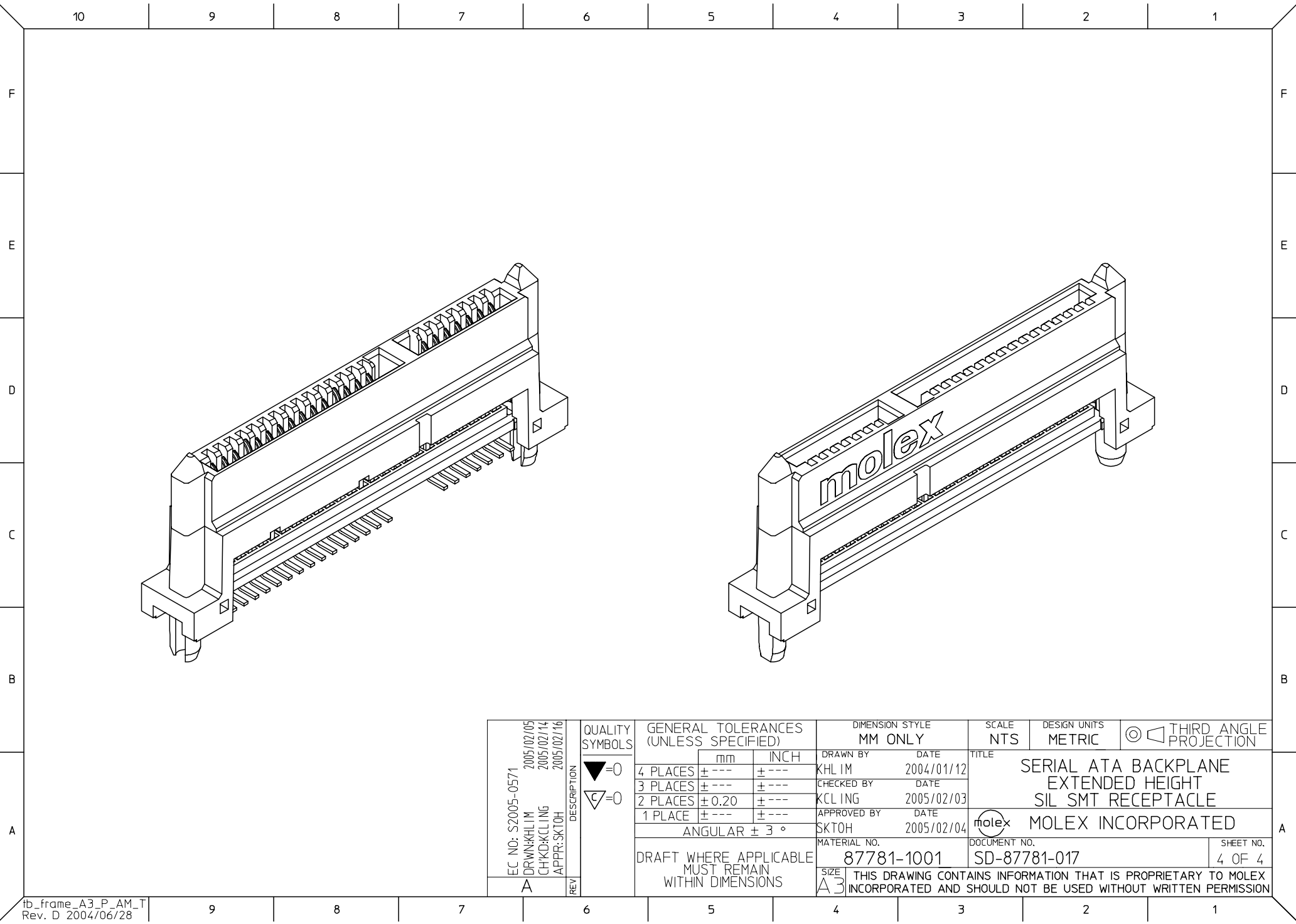


TITLE SERIAL ATA BACKPLANE
EXTENDED HEIGHT
SIL SMT RECEPTACLE

tb_frame_A3_P_AM_T
Rev. D 2004/06/28



EC NO: S2005-0571		DESCRIPTION REV	QUALITY SYMBOLS ▽=0 ▽C=0	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE NTS	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION	TITLE SERIAL ATA BACKPLANE EXTENDED HEIGHT SIL SMT RECEPTACLE MOLEX INCORPORATED		
A	DRWN:KHLIM CHKD:KCLING APPR:SKTOH			2005/02/05 2005/02/14 2005/02/16	mm	INCH	DRAWN BY KHLIM	DATE 2004/01/12					
					4 PLACES ± --- ± ---	3 PLACES ± --- ± ---	CHECKED BY KCLING	DATE 2005/02/03					
					2 PLACES ± 0.20 ± ---	1 PLACE ± --- ± ---	APPROVED BY SKTOH	DATE 2005/02/04					
				ANGULAR ± 3 °		MATERIAL NO. 87781-1001		DOCUMENT NO. SD-87781-017		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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2005/02/05 DRWN:KHLIM	2005/02/14 CHKD:KCLING					DRAWN BY KHLIM		DATE 2004/01/12	TITLE SERIAL ATA BACKPLANE EXTENDED HEIGHT SIL SMT RECEPTACLE		
2005/02/16 APPR:SKTOH				4 PLACES ± --- ± ---		3 PLACES ± --- ± ---		CHECKED BY KCLING			DATE 2005/02/03
				2 PLACES ± 0.20 ± ---		1 PLACE ± --- ± ---		APPROVED BY SKTOH			DATE 2005/02/04
				ANGULAR ± 3 °		MATERIAL NO. 87781-1001		DOCUMENT NO. SD-87781-017			SHEET NO. 4 OF 4
A	REV	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					



Компания «ЭлектроПласт» предлагает заключение долгосрочных отношений при поставках импортных электронных компонентов на взаимовыгодных условиях!

Наши преимущества:

- Оперативные поставки широкого спектра электронных компонентов отечественного и импортного производства напрямую от производителей и с крупнейших мировых складов;
- Поставка более 17-ти миллионов наименований электронных компонентов;
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- Лицензия ФСБ на осуществление работ с использованием сведений, составляющих государственную тайну;
- Поставка специализированных компонентов (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Aeroflex, Peregrine, Syfer, Eurofarad, Texas Instrument, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

Помимо этого, одним из направлений компании «ЭлектроПласт» является направление «Источники питания». Мы предлагаем Вам помощь Конструкторского отдела:

- Подбор оптимального решения, техническое обоснование при выборе компонента;
- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



Как с нами связаться

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