

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number:

0781090001

Status:

Active

Overview:

micro_sata

Description:

1.27mm (.050") Pitch Micro Serial ATA Device Receptacle for 1.8" HDD/SSD, Right Angle, SMT, Mid-Mount, 16 Circuits, Lead free

Documents:

3D Model

Drawing (PDF)

Product Specification PS-78109-001 (PDF)

RoHS Certificate of Compliance (PDF)

General

Product Family

Series

Application

Overview

Product Name

PCB Receptacles

78109

Board-to-Board

micro_sata

Micro Serial ATA, Serial ATA

Physical

Circuits (Loaded)

Circuits (maximum)

Circuits Detail

Color - Resin

Durability (mating cycles max)

Glow-Wire Compliant

Guide to Mating Part

Keying to Mating Part

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

Stackable

Temperature Range - Operating

Termination Interface: Style

16

16

With Optional Manufacturing Pins (S1 to S7, P1 to P9)

Black

500

No

Yes

Yes

Yes

Copper Alloy

Gold

Tin

Nylon

1

Right Angle

Yes

Yes

Tray

0.050 In

1.27 mm

30

0.76

100

2.54

Yes

Yes

No

-40°C to +105°C

Surface Mount

Electrical

Current - Maximum per Contact

Grounding to PCB

Voltage - Maximum

1.5A

Yes

30V

Solder Process Data

Duration at Max. Process Temperature (seconds)

Lead-free Process Capability

10

Reflow Capable (SMT only)

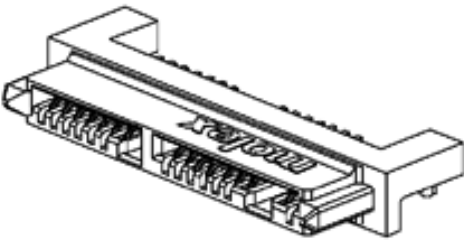


image - Reference only

Series

EU RoHS

ELV and RoHS

Compliant

REACH SVHC

Not Reviewed

Halogen-Free

Status

Not Halogen-Free

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

78109Series

Mates With

78103 , 78283 and 78285 Micro SATA Device Plugs

Max. Cycles at Max. Process Temperature	1
Process Temperature max. C	260

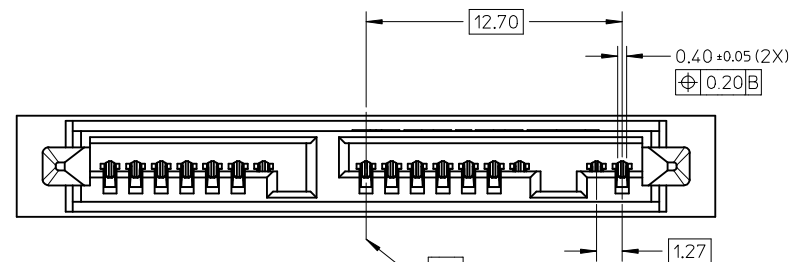
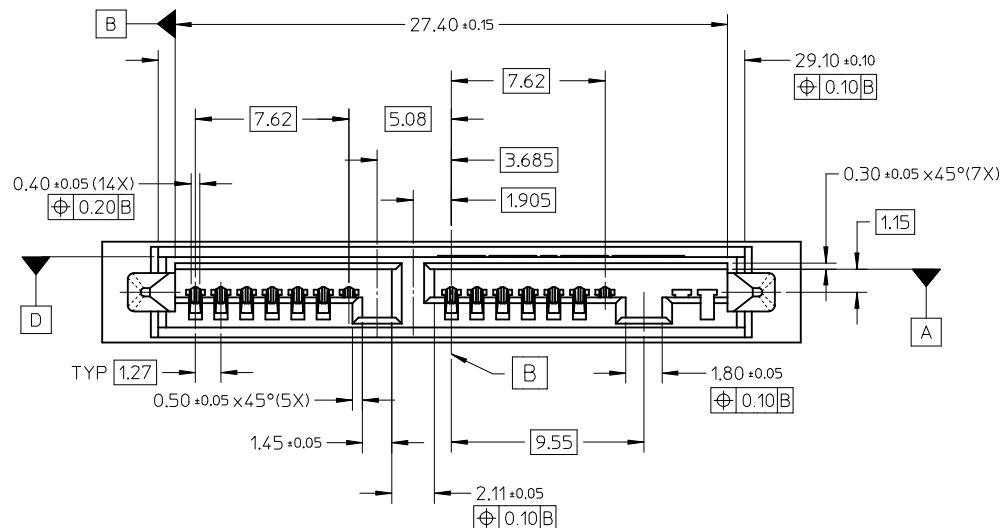
Material Info

Reference - Drawing Numbers

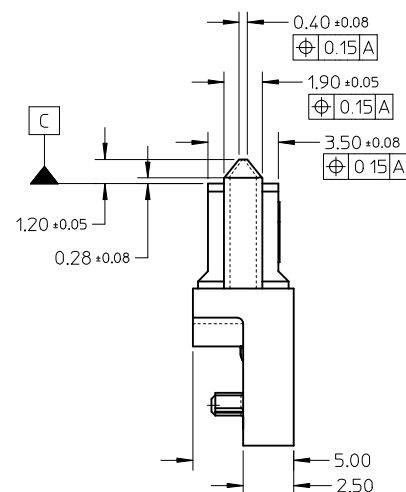
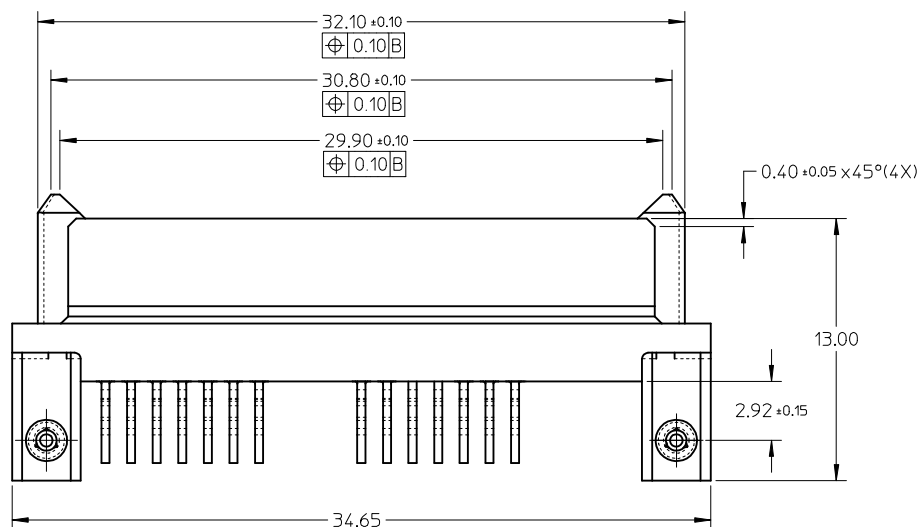
Product Specification	PS-78109-001
Sales Drawing	SD-78109-001

This document was generated on 05/21/2010

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78109-0001



REV	DESCRIPTION	ADD P/NO. & NOTE	
		EC NO:	DATE
A		S2009-0789	2009/04/17
		DRWN: JIAN02	2009/04/20
		CHKD: KHLIM	2009/04/20
		APPR: BOKOK	2009/04/20

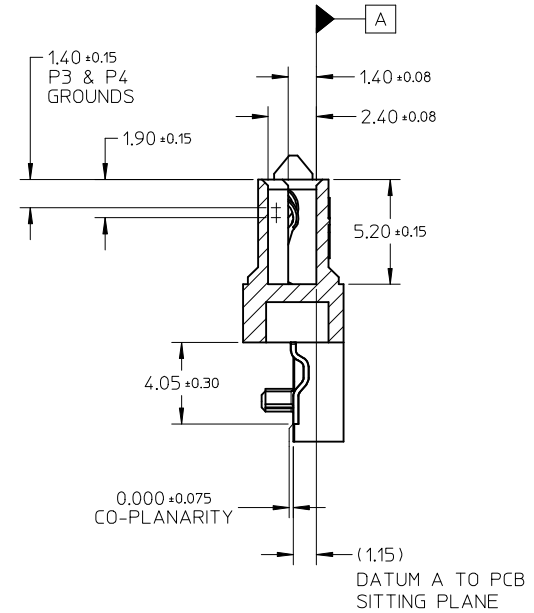
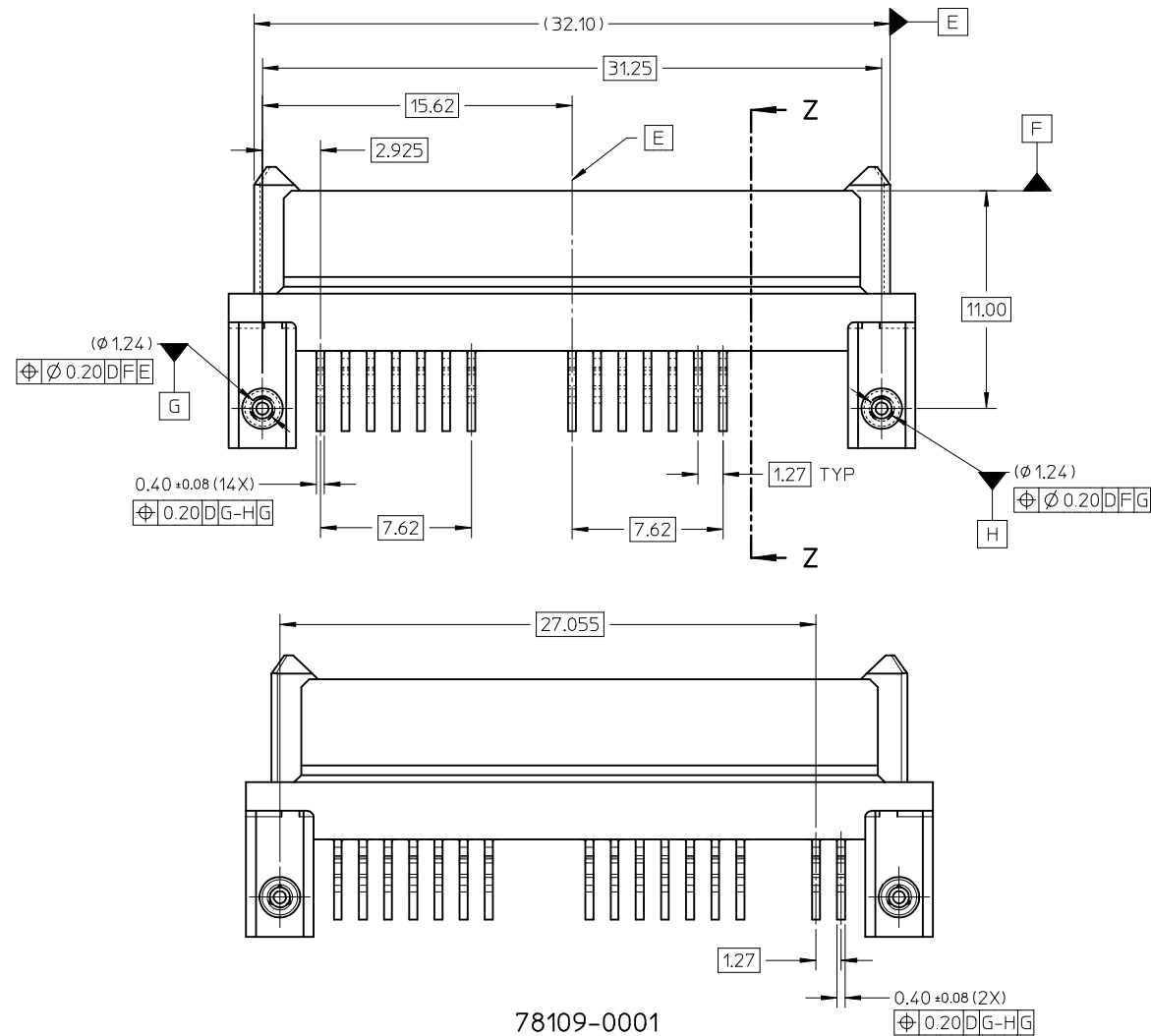
QUALITY SYMBOLS
= 0
= 0

GENERAL TOLERANCES (UNLESS SPECIFIED)		
	mm	INCH
4 PLACES	± ---	± ---
3 PLACES	± ---	± ---
2 PLACES	± 0.20	± ---
1 PLACE	± ---	± ---
ANGULAR ± 3 °		
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		

DIMENSION STYLE	
MM ONLY	
DRAWN BY	DATE
YKOH	2006/06/27
CHECKED BY	DATE
SHONG	2006/07/28
APPROVED BY	DATE
KCLING	2006/07/28
MATERIAL NO.	
SEE TABLE	
SIZE	
A3	

SCALE NTS	DESIGN UNITS METRIC		THIRD ANGLE PROJECTION
TITLE			
SERIAL ATA RECEPTACLE 1.8 INCH HDD RIGHT-ANGLE, SMT			
	MOLEX INCORPORATED		
DOCUMENT NO. SD-78109-001			SHEET NO. 2 OF 6
ALL INFORMATION THAT IS PROPRIETARY TO MOLEX SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION			

10 9 8 7 6 5 4 3 2 1



SECTION Z-Z

78109-0001

ADD P/NO. & NOTE EC NO: S2009-0789 DRWN: JIAN02 CHKD: KHLIM APPR: BOKOK A	REV	DESCRIPTION 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 YKOH	DATE 2006/06/27	TITLE SERIAL ATA RECEPTACLE 1.8 INCH HDD RIGHT-ANGLE, SMT MOLEX INCORPORATED				
			4 PLACES	± ---	± ---	CHECKED BY SHONG	DATE 2006/07/28					
			3 PLACES	± ---	± ---	APPROVED BY KCLING	DATE 2006/07/28					
			2 PLACES	± 0.20	± ---			DOCUMENT NO.		SHEET NO. 3 OF 6		
			1 PLACE	± ---	± ---	ANGULAR ± 3 °						
			DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SEE TABLE		SD-78109-001					
					SIZE A3		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION					

9 8 7 6 5 4 3 2 1

10 9 8 7 6 5 4 3 2 1

F

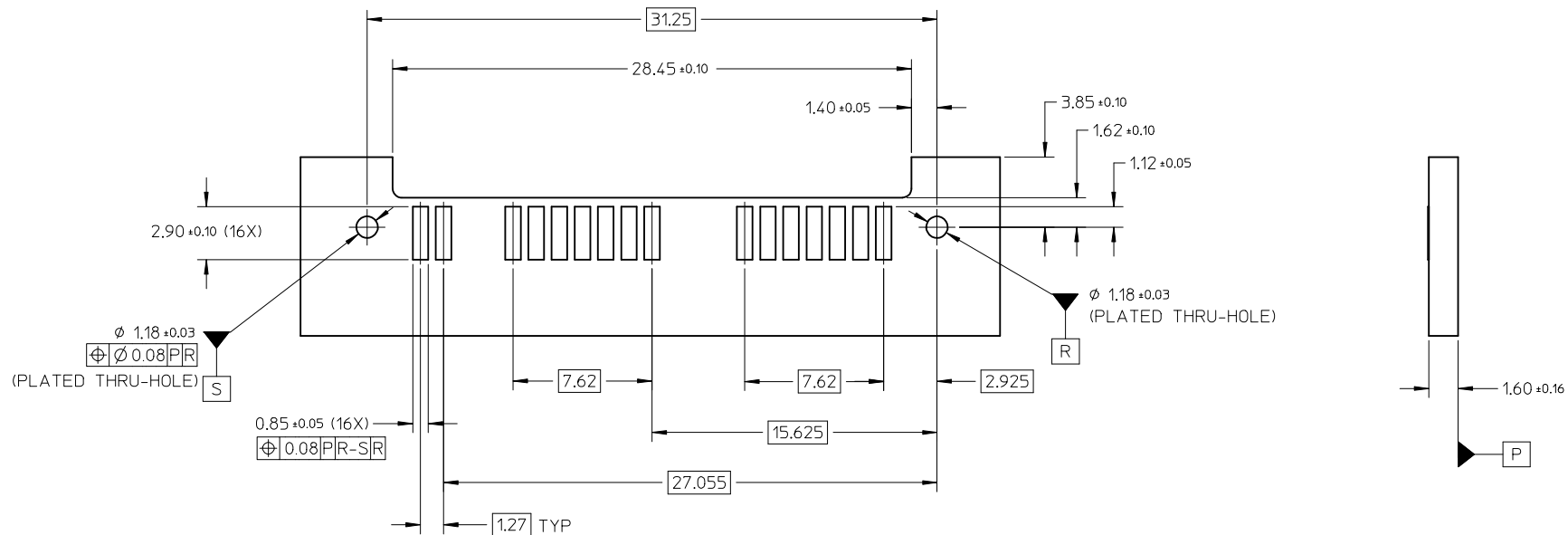
E

D

C

B

A

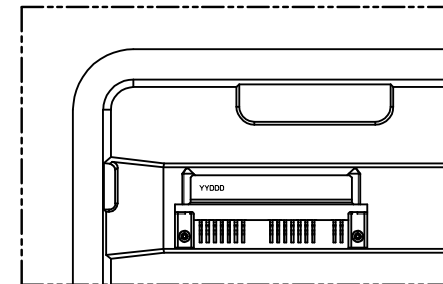
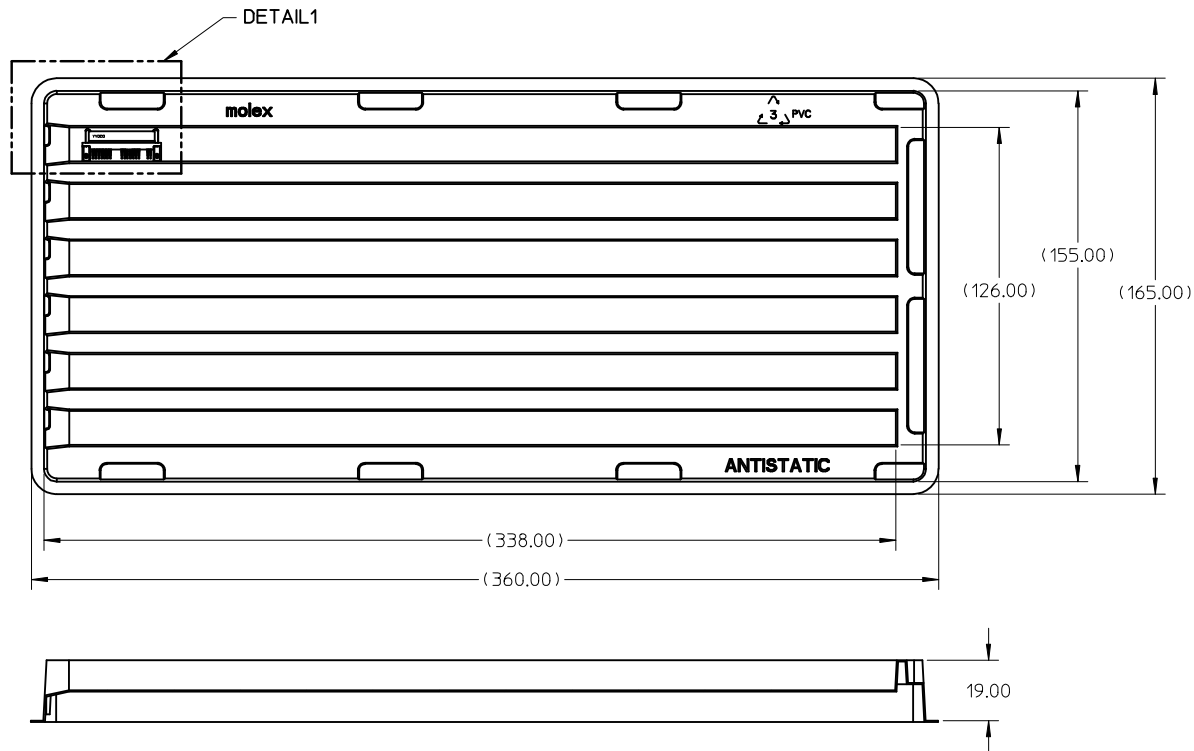


RECOMMENDED PCB LAYOUT

ADD P/NO. & NOTE EC NO: S2009-0789 DRWN: JIAN02 CHKD: KHLIM APPR: BOKOK A	DESCRIPTION REV	QUALITY SYMBOLS ▽=0 ▽=0	GENERAL TOLERANCES (UNLESS SPECIFIED)			DIMENSION STYLE MM ONLY		SCALE NTS	DESIGN UNITS METRIC	 THIRD ANGLE PROJECTION	
					mm	INCH	DRAWN BY YKOH	DATE 2006/06/27	TITLE SERIAL ATA RECEPTACLE 1.8 INCH HDD RIGHT-ANGLE, SMT MOLEX INCORPORATED		
			4 PLACES	± ---	± ---	CHECKED BY	DATE				
			3 PLACES	± ---	± ---	SHONG	2006/07/28				
			2 PLACES	± 0.20	± ---	APPROVED BY	DATE				
			1 PLACE	± ---	± ---	KCLING	2006/07/28				
			ANGULAR ± 3 °			MATERIAL NO.		DOCUMENT NO.			SHEET NO.
			DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS			SEE TABLE		SD-78109-001			4 OF 6
			THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION								

9 8 7 6 5 4 3 2 1

PACKAGING INFORMATION : TRAY



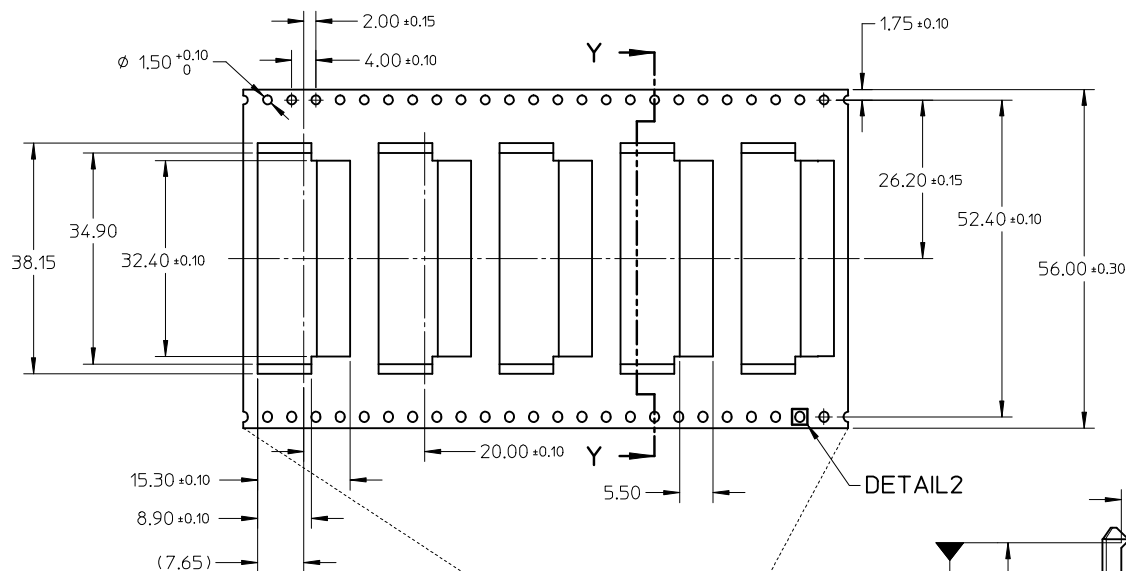
DETAIL1

NOTES:

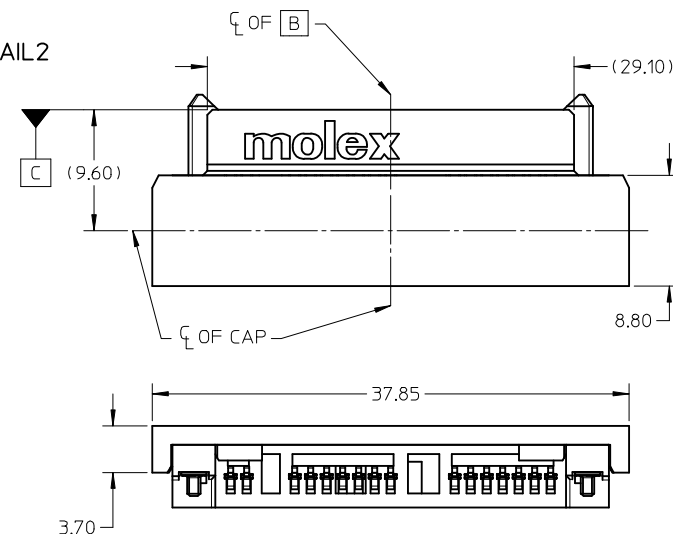
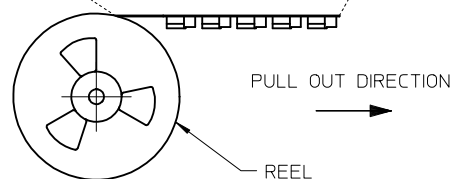
1. PACKAGING QUANTITY : 54 PCS PER TRAY
2. MATERIAL : PVC - CLEAR, ANTISTATIC
0.70MM THICK (PRE-FORMED)

ADD P/NO. & NOTE EC NO: S2009-0789 DRWN: JIAN02 CHKD: KHLIM APPR: BOKOK			DESCRIPTION REV	QUALITY SYMBOLS ▽=0 ▽=0	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE		SCALE	DESIGN UNITS	THIRD ANGLE PROJECTION	TITLE SERIAL ATA RECEPTACLE 1.8 INCH HDD RIGHT-ANGLE, SMT MOLEX INCORPORATED
							MM ONLY					
					4 PLACES	± ---	± ---	DRAWN BY	DATE			
					3 PLACES	± ---	± ---	CHECKED BY	DATE			
A	REV	DESCRIPTION	QUALITY SYMBOLS	2 PLACES	± 0.20	± ---	SHONG	2006/07/28	DOCUMENT NO.	SHEET NO.	5 OF 6	
				1 PLACE	± ---	± ---	APPROVED BY	DATE				
				ANGULAR ± 3 °		KCLING	2006/07/28					
				DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SEE TABLE						
THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION												

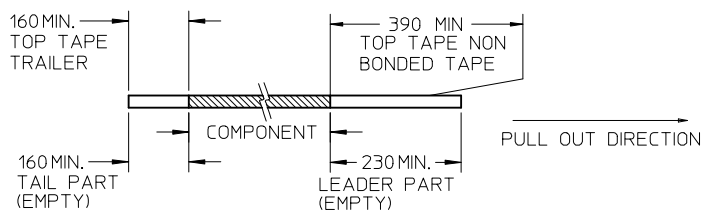
10	9	8	7	6	5	4	3	2	1
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DETAIL2



1. LEADER AND TRAILER TAPE



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3. TAPE AND REEL SPECIFICATION IS AS PER EIA-481.
4. TAPE AND REEL QUANTITY : 480 PCS/ REEL.
5. THE TAPE IS TREATED FOR ANTI-STATIC.

ADD P/NO. & NOTE EC NO: S2009-0789 DRWN: JIAN2 CHK'D: KHL IM APPR: BOK00 2009/04/17 2009/04/20 2009/04/20	QUALITY SYMBOLS ▽=0 ▽=0	DESCRIPTION SERIAL ATA RECEPTACLE 1.8 INCH HDD RIGHT-ANGLE, SMT	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE NTS	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION	
			mm INCH		DRAWN BY DATE		TITLE SERIAL ATA RECEPTACLE 1.8 INCH HDD RIGHT-ANGLE, SMT			
			4 PLACES ± --- ± ---		YKOH 2006/06/27					
			3 PLACES ± --- ± ---		CHECKED BY DATE					
			2 PLACES ± 0.20 ± ---		SHONG 2006/07/28					
1 PLACE ± --- ± ---		APPROVED BY DATE		MOLEX MOLEX INCORPORATED						
ANGULAR ± 3 °		KCLING 2006/07/28								
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		MATERIAL NO.		DOCUMENT NO.		SHEET NO.				
		SEE TABLE		SD-78109-001		6 OF 6				
A	REV	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION								

Компания «Life Electronics» занимается поставками электронных компонентов импортного и отечественного производства от производителей и со складов крупных дистрибьюторов Европы, Америки и Азии.

С конца 2013 года компания активно расширяет линейку поставок компонентов по направлению коаксиальный кабель, кварцевые генераторы и конденсаторы (керамические, пленочные, электролитические), за счёт заключения дистрибьюторских договоров

Мы предлагаем:

- Конкурентоспособные цены и скидки постоянным клиентам.
- Специальные условия для постоянных клиентов.
- Подбор аналогов.
- Поставку компонентов в любых объемах, удовлетворяющих вашим потребностям.
- Приемлемые сроки поставки, возможна ускоренная поставка.
- Доставку товара в любую точку России и стран СНГ.
- Комплексную поставку.
- Работу по проектам и поставку образцов.
- Формирование склада под заказчика.
- Сертификаты соответствия на поставляемую продукцию (по желанию клиента).
- Тестирование поставляемой продукции.
- Поставку компонентов, требующих военную и космическую приемку.
- Входной контроль качества.
- Наличие сертификата ISO.

В составе нашей компании организован Конструкторский отдел, призванный помогать разработчикам, и инженерам.

Конструкторский отдел помогает осуществить:

- Регистрацию проекта у производителя компонентов.
- Техническую поддержку проекта.
- Защиту от снятия компонента с производства.
- Оценку стоимости проекта по компонентам.
- Изготовление тестовой платы монтаж и пусконаладочные работы.



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