

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number:

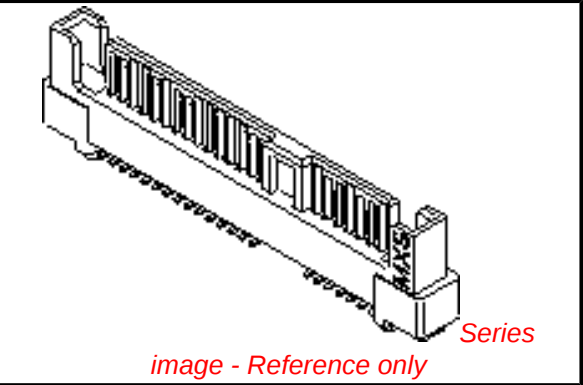
0780120011

Status:

Active

Description:

1.27mm (.050") Pitch, Serial Attached SCSI Combo Device Plug, Vertical, Surface Mount, 29 Circuits, Plastic Locating Pegs, Pick-and-Place Cap, Embossed Tape on Reel, Lead-free



Documents:

3D Model

Drawing (PDF)

Product Specification PS-78012-002 (PDF)

RoHS Certificate of Compliance (PDF)

Agency Certification	
CSA	LR 19980
UL	E29179
General	
Product Family	I/O Connectors
Series	78012
Application	Wire-to-Board
Comments	With Cap
Component Type	Plug
Product Name	SAS
Type	N/A
Physical	
Boot Color	N/A
Circuits (Loaded)	29
Circuits (maximum)	29
Color - Resin	Black
Durability (mating cycles max)	500
Flammability	94V-0
Gender	Plug
Lock to Mating Part	None
Material - Metal	Brass
Material - Plating Mating	Gold
Material - Plating Termination	Tin
Material - Resin	High Temperature Thermoplastic
Number of Rows	2
Orientation	Vertical
PC Tail Length (in)	0.000 In
PC Tail Length (mm)	0.00 mm
PCB Locator	Yes
PCB Retention	Yes
PCB Thickness Recommended (in)	0.062 In
PCB Thickness Recommended (mm)	1.57 mm
Packaging Type	Embossed Tape on Reel
Panel Mount	Yes
Pitch - Mating Interface (in)	0.031 In, 0.050 In
Pitch - Mating Interface (mm)	0.80 mm, 1.27 mm
Pitch - Term. Interface (in)	0.050 In
Pitch - Term. Interface (mm)	1.27 mm
Plating min: Mating (µin)	30
Plating min: Mating (µm)	0.76
Plating min: Termination (µin)	76.400
Plating min: Termination (µm)	1.91
Polarized to Mating Part	Yes
Polarized to PCB	Yes

EU RoHS

ELV and RoHS Compliant

REACH SVHC

Not Reviewed

Halogen-Free

Status

Not Reviewed

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

78012Series

Mates With

78011 SATA Receptacle, SFF 8482 Unshielded Dual Port Serial Attachment Connector

Ports	1
Surface Mount Compatible (SMC)	Yes
Temperature Range - Operating	-40°C to +85°C
Termination Interface: Style	Surface Mount
Waterproof / Dustproof	No
Wire Size AWG	N/A

Electrical

Current - Maximum per Contact	1.5A
Shielded	No
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

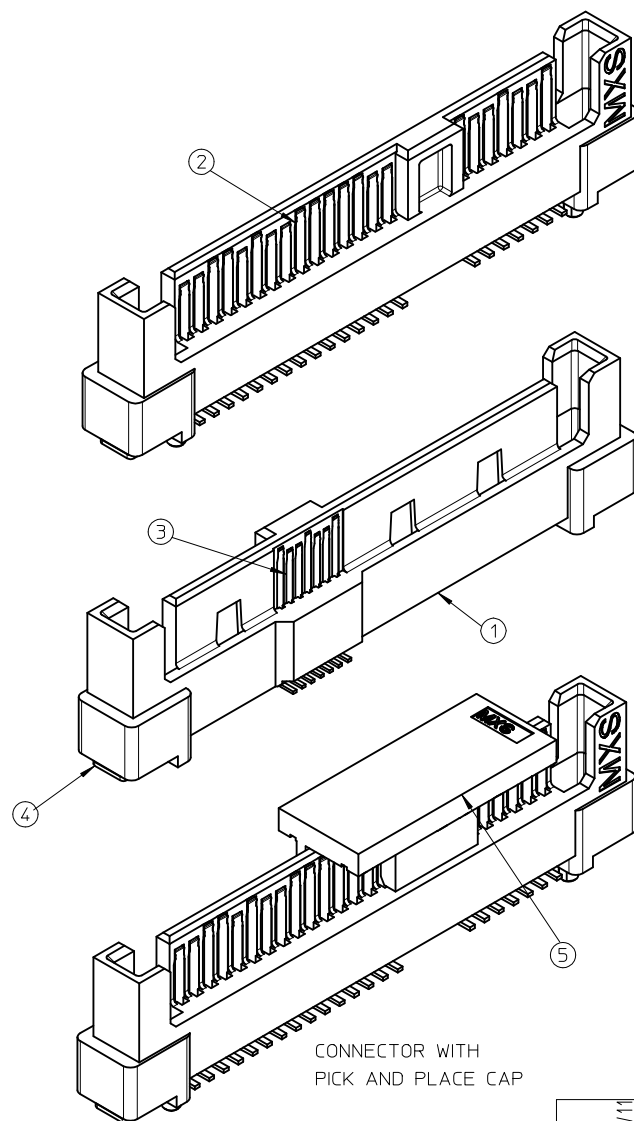
Material Info

Reference - Drawing Numbers

Product Specification	PS-78012-002
Sales Drawing	SD-78012-101

This document was generated on 04/02/2010

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION



NO.	PART NAME	QTY.	MATERIAL
1	HOUSING	1	NYLON(PA), UL 94V-0, COLOR: BLACK
2	CONTACT A	22	COPPER ALLOY
3	CONTACT B	7	COPPER ALLOY
4	FITTING-NAIL	2	COPPER ALLOY
5	PICK & PLACE CAP	1	PA46, UL 94V-0, COLOR: BLACK

NOTES:

1. MATERIAL: REFER TO THE ABOVE PART-LIST.
2. PLATING SPECIFICATION: REFER TO TABLE-1.
3. APPLICABLE INDUSTRY SPECIFICATION :
SFF-8482 UNSHIELDED DUAL PORT SERIAL ATTACHMENT CONNECTOR.
4. PRODUCT SPECIFICATION: PS-78012-002.
5. PACKING: REFER TO PACKING INFORMATION (SHEET 6/6).
6. DATE CODE FORMAT: YEAR & DAY OF MANUFACTURE.
7. MOLEX LOGO IS LOCATED APPROXIMATELY AS SHOW.
8. MAXIMUM WARPAGE OF 0.13mm OVER THE LENGTH OF THE CONNECTOR
IN ANY DIRECTION BEFORE AND AFTER EXPOSURE TO MAX. 260°C
FOR 10 SECONDS.

TABLE-1: (CONTACT AND FITTING-NAIL PLATING SPECIFICATION)

PART NAME	MATING AREA	TERMINAL AREA	OTHERS AREA
CONTACT	GOLD (0.764μm MIN.)	TIN (1.914μm MIN.)	NICKEL PLATING
	OVER 1.274μm MIN. NICKEL UNDERPLATE		
FITTING-NAIL	TIN OVER NICKEL UNDERPLATE		

SEE SHEET 6 EC NO: S2009-0661 DRAWN: GEMARLY CHK'D: CGOH APPR: BOKOK 2009/03/11 2009/03/12 2009/03/13	DESCRIPTION A2	QUALITY SYMBOLS ▼=0 ▽=0	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE NTS	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION				
				mm	INCH	DRAWN BY CGTAN	DATE 2005/11/10	TITLE SERIAL ATTACH SCSI (SAS) PLUG, VERTICAL MOUNT SMT					
			4 PLACES	± ---	± ---	CHECKED BY	DATE						
			3 PLACES	± ---	± ---	SHONG	2005/11/24						
			2 PLACES	± 0.20	± ---	APPROVED BY	DATE						
				1 PLACE	± ---	± ---	KCLING	2005/11/24		MOLEX INCORPORATED			
			ANGULAR ± 3 °			MATERIAL NO. 78012-0011		DOCUMENT NO. SD-78012-101		SHEET NO. 1 OF 6			
			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						

F

E

D

C

B

A

F

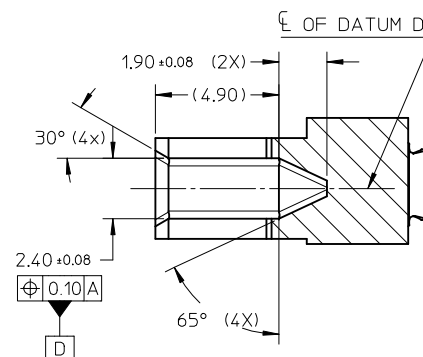
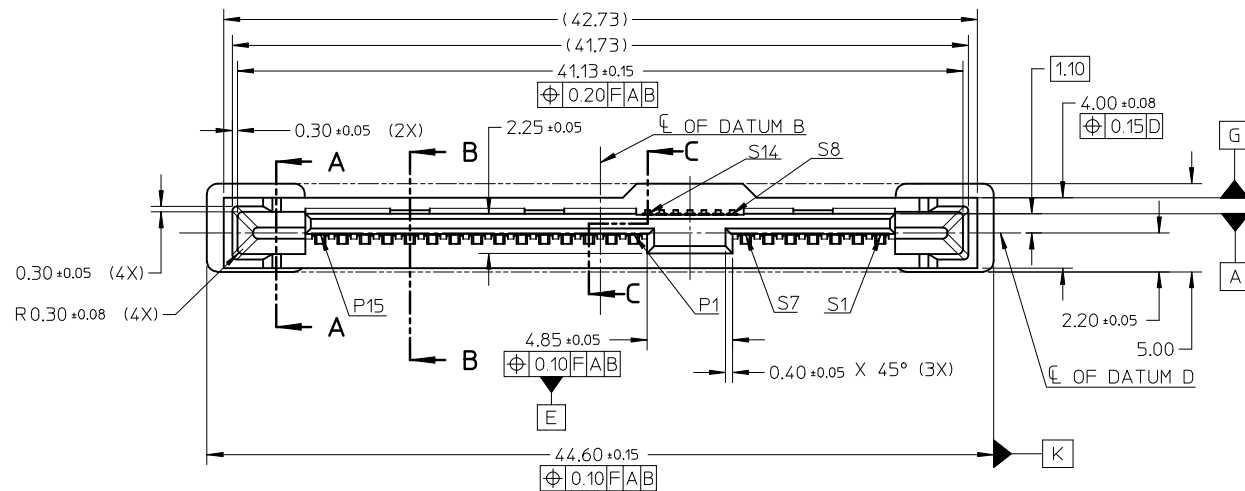
E

D

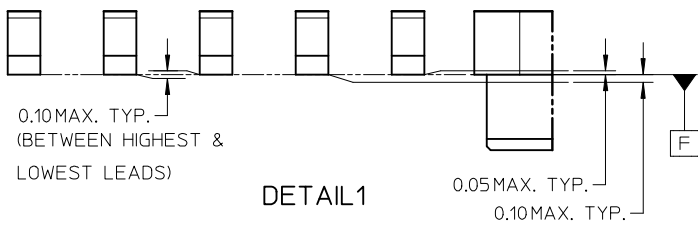
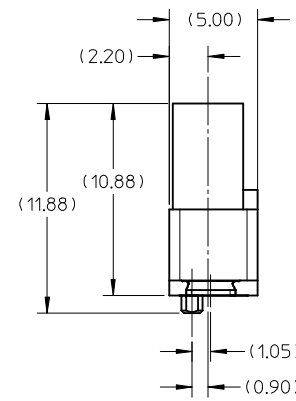
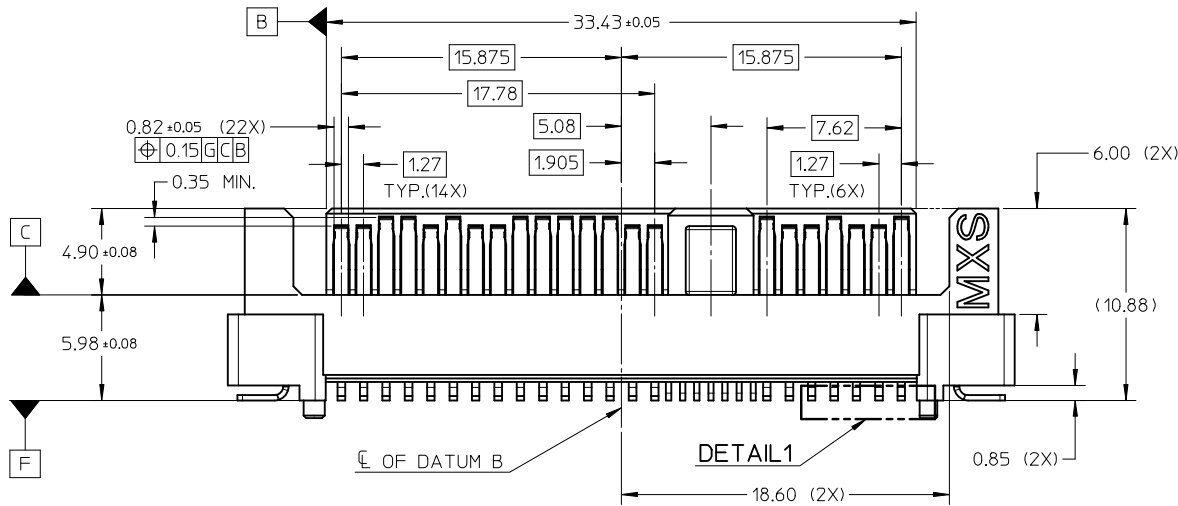
C

B

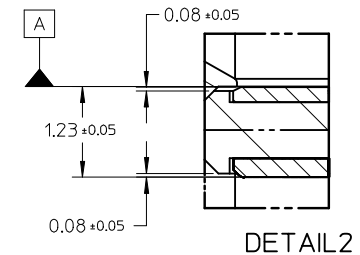
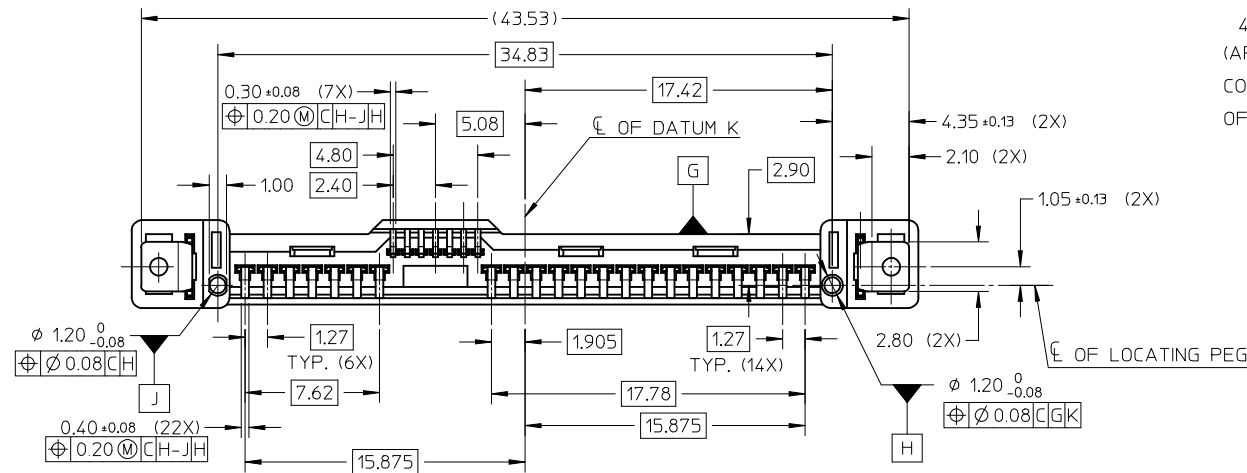
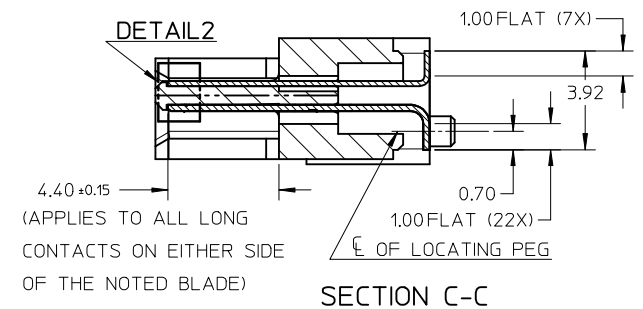
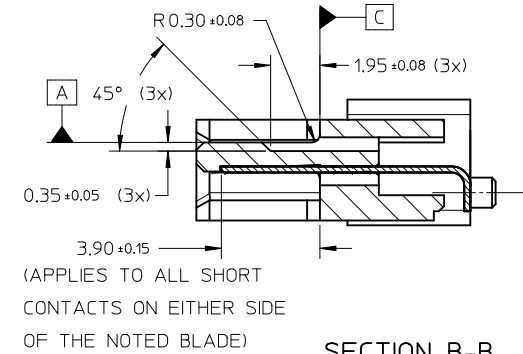
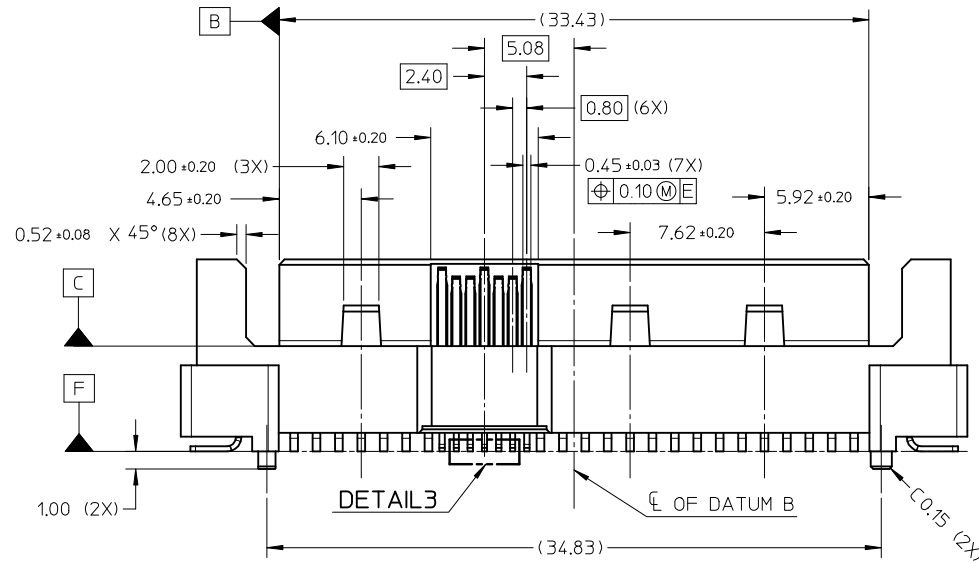
A



SECTION A-A



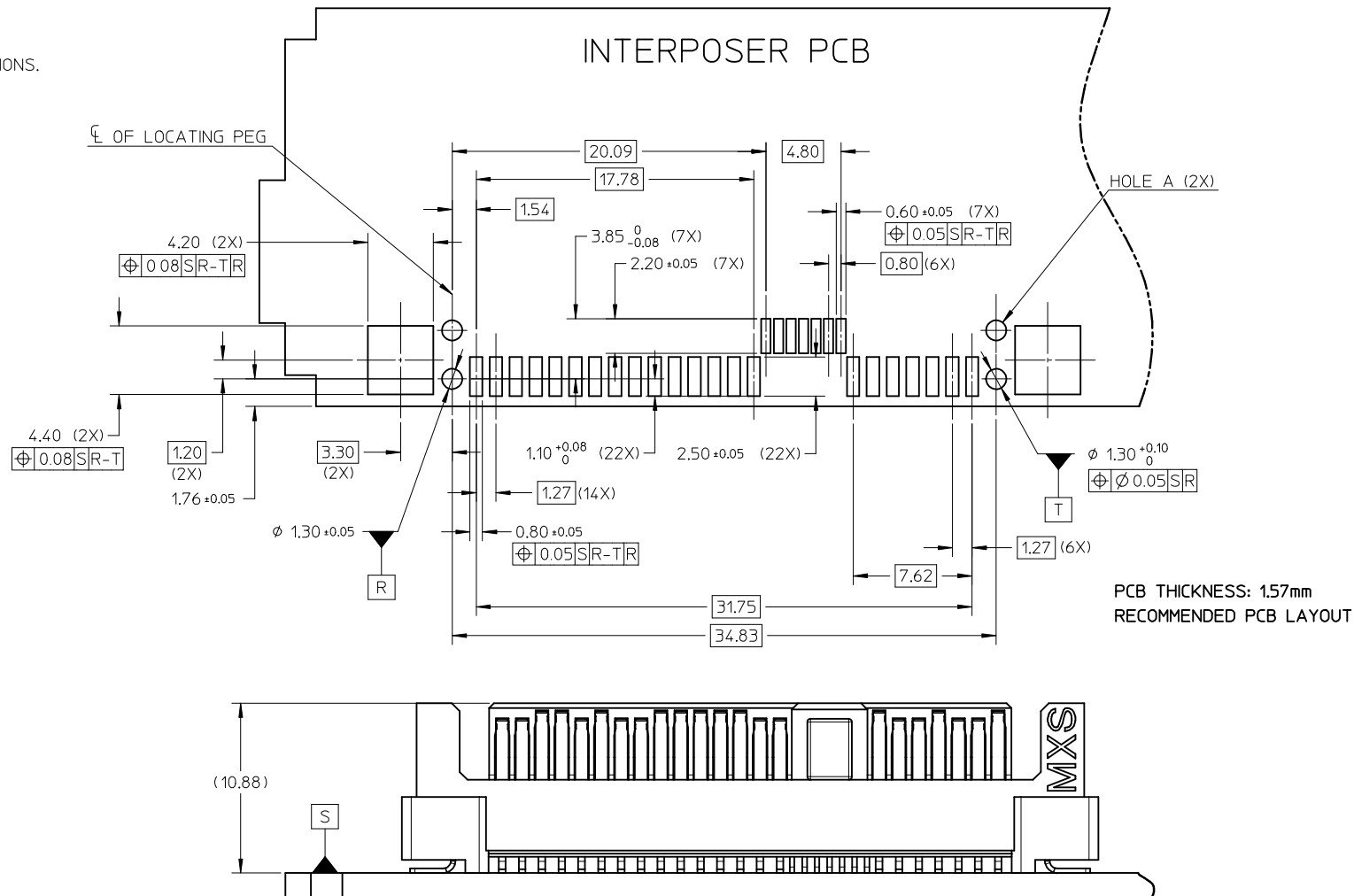
SEE SHEET 6 EC NO: S2009-0661 DRAWN: MENARLY CHKD: CGOH APPR: BOKOK	QUALITY SYMBOLS ▽=0 C=0	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE NTS	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION	
						TITLE			
						DRAWN BY CGTAN		DATE 2005/11/10	
						CHECKED BY SHONG		DATE 2005/11/24	
A2	REV					APPROVED BY KCLING		DATE 2005/11/24	
						MATERIAL NO. 78012-0011		DOCUMENT NO. SD-78012-101	
						SIZE A3		SHEET NO. 2 OF 6	
						THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION			



SEE SHEET 6 EC NO: S2009-0661 DRWNG: MEMARLY CHKD: CGOH APPR: BOKOK 2009/03/11 2009/03/12 2009/03/13	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 CGTAN	DATE 2005/11/10	TITLE SERIAL ATTACH SCSI (SAS) PLUG, VERTICAL MOUNT SMT		
			4 PLACES	± ---	± ---	CHECKED BY	DATE			
			3 PLACES	± ---	± ---	SHONG	2005/11/24			
			2 PLACES	± 0.20	± ---	APPROVED BY	DATE			
			1 PLACE	± ---	± ---	KCLING	2005/11/24	 MOLEX INCORPORATED		
			ANGULAR ± 3 °			MATERIAL NO. 78012-0011		DOCUMENT NO. SD-78012-101		SHEET NO. 3 OF 6
A2	REV		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS			THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION				

NOTES:

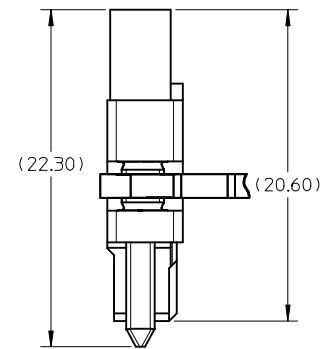
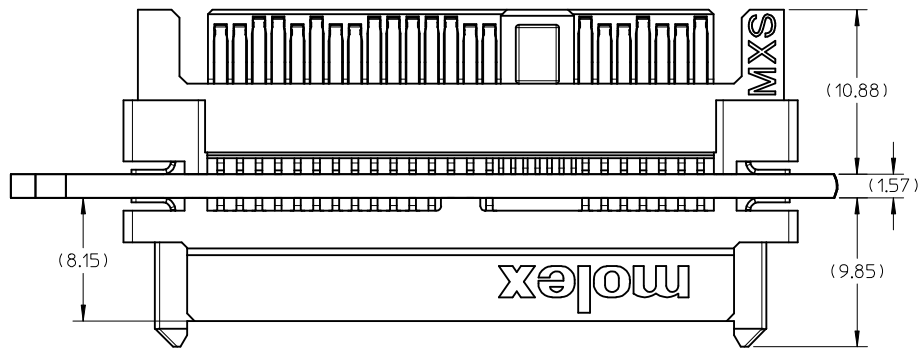
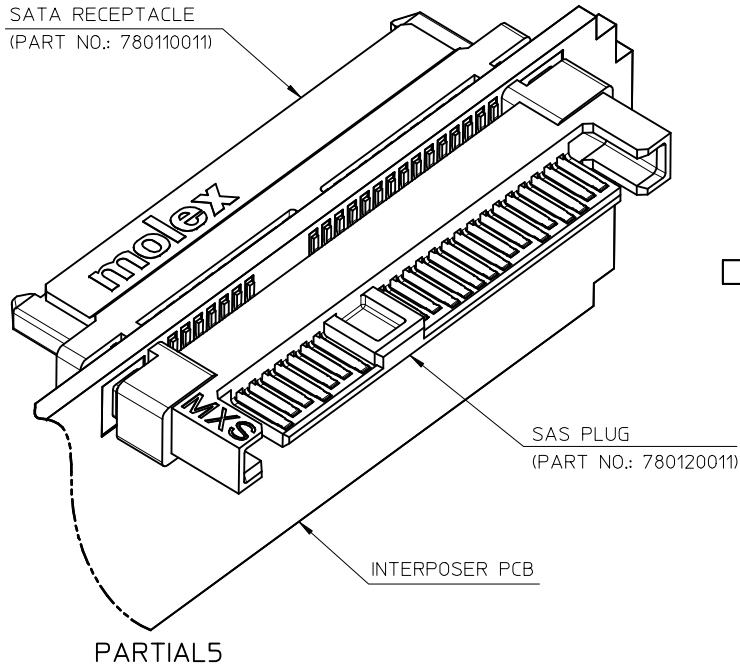
- REFER TO SD-78011-101 FOR HOLES A DETAILED DIMENSIONS.



QUALITY SYMBOLS		GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE		SCALE	DESIGN UNITS	THIRD ANGLE PROJECTION	
				MM ONLY		NTS	METRIC		
				mm	INCH	DRAWN BY	DATE	TITLE	
				4 PLACES	± ---	CGTAN	2005/11/10	SERIAL ATTACH SCSI (SAS) PLUG, VERTICAL MOUNT SMT	
				3 PLACES	± ---	CHECKED BY	DATE	MOLEX INCORPORATED	
				2 PLACES	± 0.20	SHONG	2005/11/24	DOCUMENT NO.	
				1 PLACE	± ---	APPROVED BY	DATE	SHEET NO.	
				ANGULAR ± 3 °		KCLING	2005/11/24	4 OF 6	
				DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		MATERIAL NO.			
						78012-0011		SD-78012-101	
						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

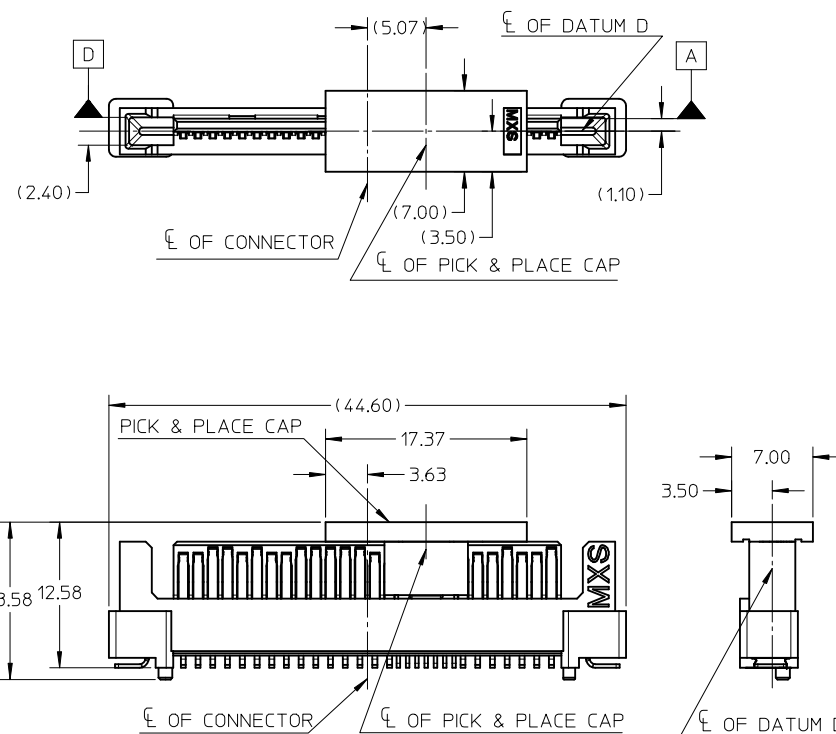
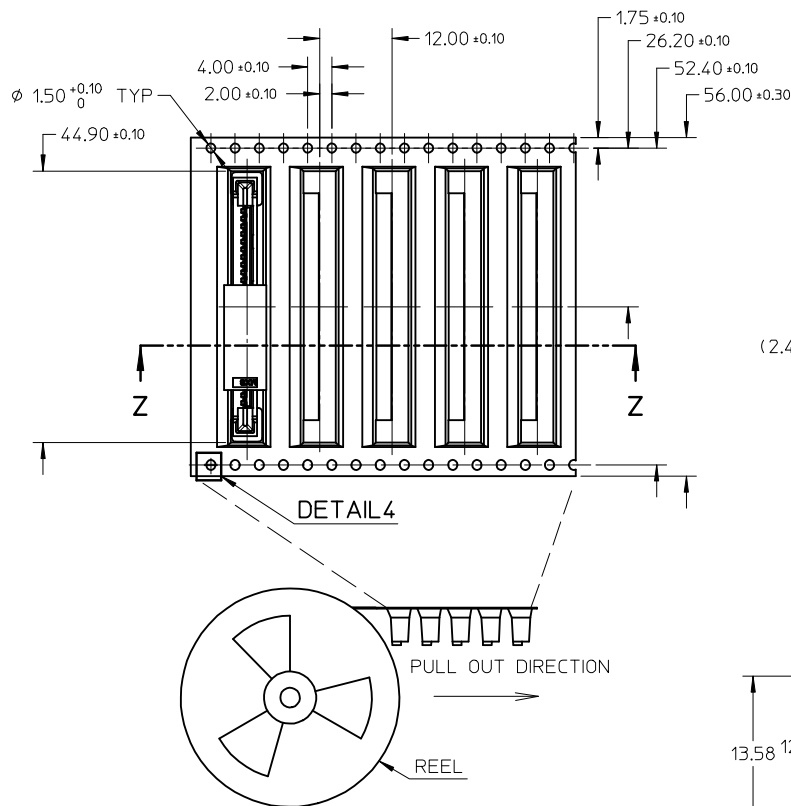
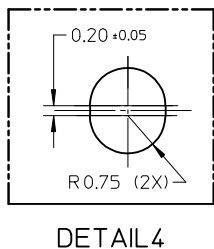
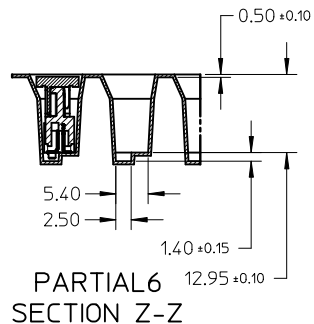
- NOTES:
1. APPLICATION AS SHOWN IN SHEET 5/6.
 2. REFER TO SD-78011-101 FOR THE DETAILS OF SATA RECEPTACLE.



SEE SHEET 6 EC NO: S2009-0661 DRWN:GMENARLY CHKD:CGOH APPR:BOKOK	2009/03/11 2009/03/12 2009/03/13	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 CGTAN	DATE 2005/11/10	TITLE SERIAL ATTACH SCSI (SAS) PLUG, VERTICAL MOUNT SMT				
				4 PLACES	±---	±---	CHECKED BY SHONG	DATE 2005/11/24					
				3 PLACES	±---	±---	APPROVED BY KCLING		DATE 2005/11/24	MOLEX INCORPORATED			
				2 PLACES	±0.20	±---							
				1 PLACE	±---	±---	MATERIAL NO. 78012-0011		DOCUMENT NO. SD-78012-101	SHEET NO. 5 OF 6			
				ANGULAR ± 3 °									
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									

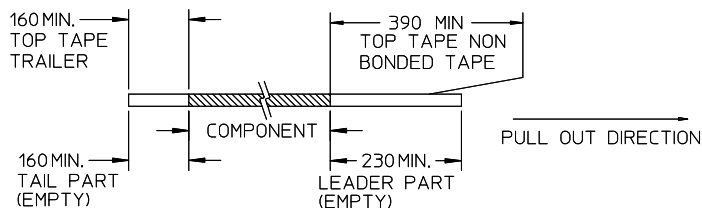
9 8 7 6 5 4 3 2 1

TAPE & REEL PACKING

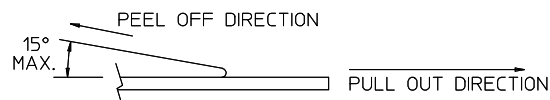


NOTES:

1. LEADER AND TRAILER TAPE



2. PEELING OFF FORCE OF THE TOP TAPE: 80gf MAX. (PEELING DIRECTION AS SHOWN IN FOLLOWING FIGURE)



- TAPE AND REEL SPECIFICATION IS AS PER EIA-481.
- TAPE AND REEL QUANTITY : 250 PCS/ REEL.
- THE TAPE IS TREATED FOR ANTI-STATIC.

CHANGED T&R QTY	EC NO:	DATE	DESCRIPTION
A2	S2009-0661	2009/03/11	DRW:GEMARLY
		2009/03/12	CHKD:CGOH
		2009/03/13	APPR:BOKOK

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	SCALE	DESIGN UNITS	THIRD ANGLE PROJECTION
MM ONLY	NTS	METRIC	
DRAWN BY	DATE	TITLE	
CGTAN	2005/11/10	SERIAL ATTACH SCSI (SAS) PLUG, VERTICAL MOUNT SMT	
CHECKED BY	DATE		
SHONG	2005/11/24		
APPROVED BY	DATE		
KCLING	2005/11/24		
MATERIAL NO.			
78012-0011			

MOLEX INCORPORATED	DOCUMENT NO.	SHEET NO.
	SD-78012-101	6 OF 6
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.



Тел: +7 (812) 336 43 04 (многоканальный)

Email: org@lifeelectronics.ru

www.lifeelectronics.ru