

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number:

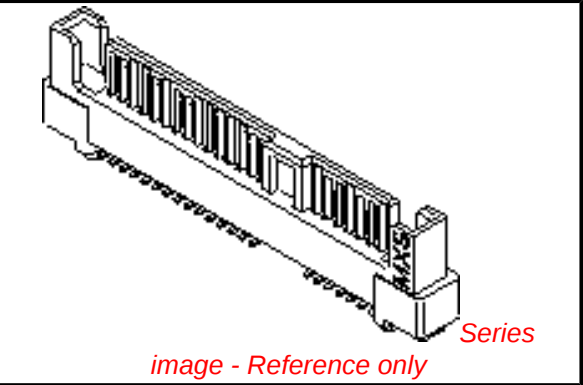
0780120011

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	Product Specification PS-78012-002 (PDF)
Drawing (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

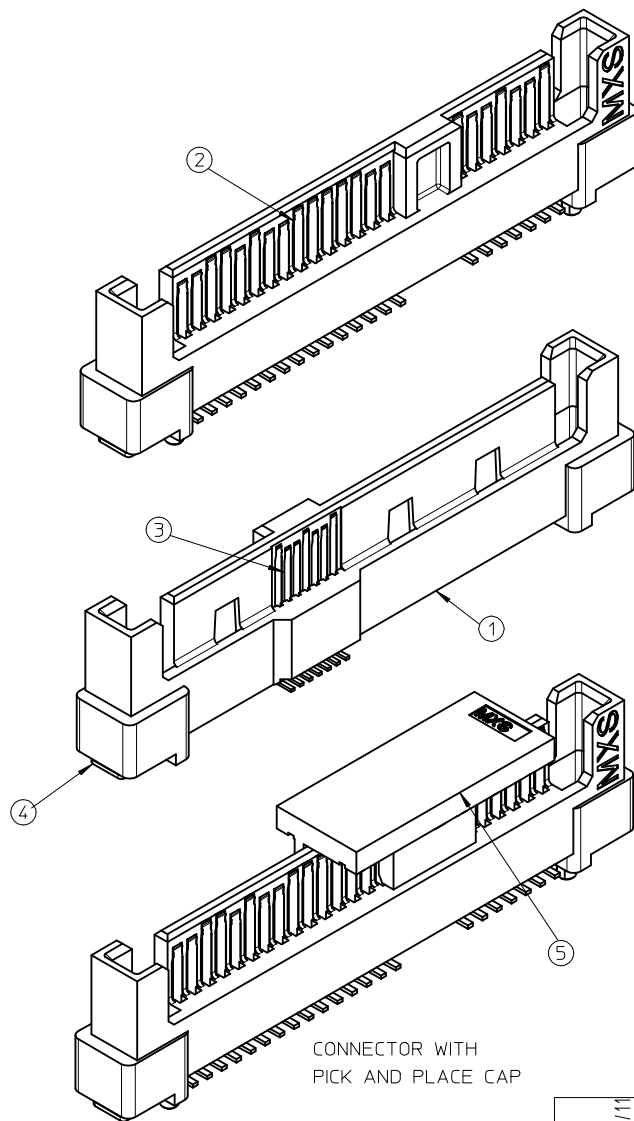
Material Info

Reference - Drawing Numbers

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

This document was generated on 04/02/2010

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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 DRWNGEMARLY CHKD:CGOH APPR:BOKOK REV A2	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					
			2 PLACES ± 0.20		± ---	MATERIAL NO. 78012-0011		DOCUMENT NO. SD-78012-101		SHEET NO. 1 OF 6	
			1 PLACE ± ---		± ---	ANGULAR ± 3 °		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION			
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS											

F

E

D

C

B

A

F

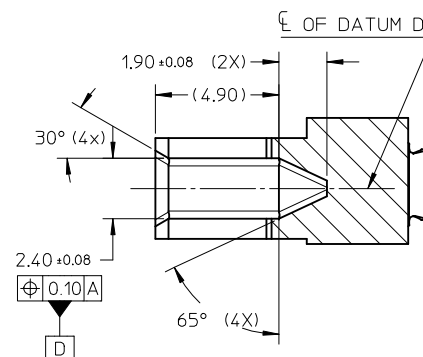
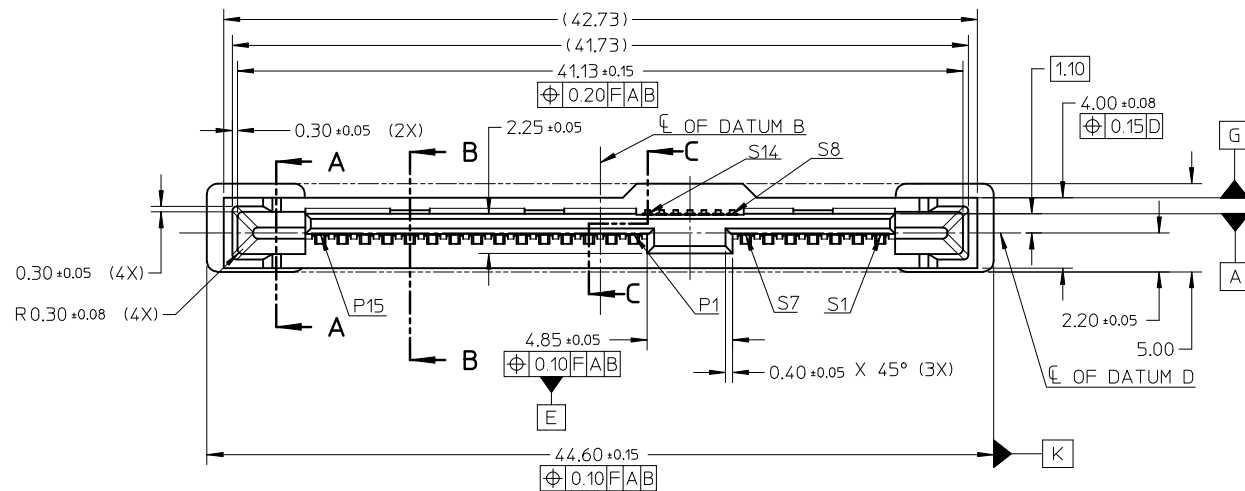
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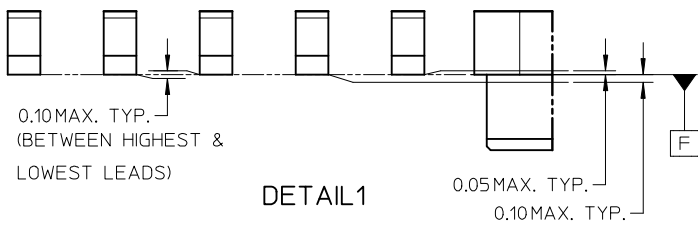
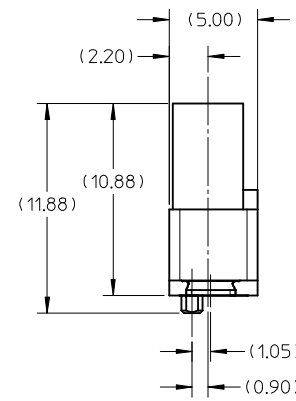
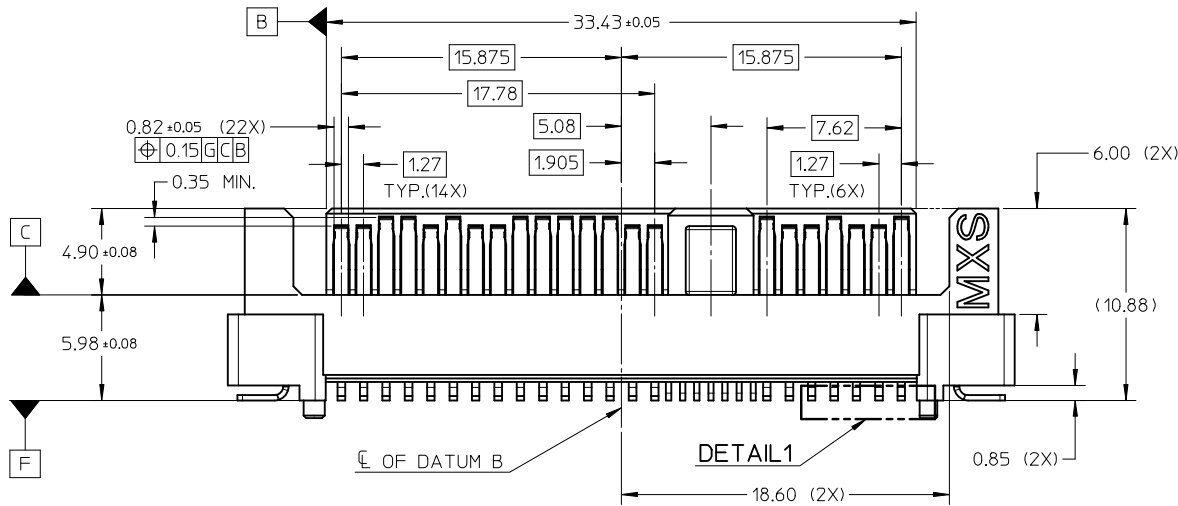
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B

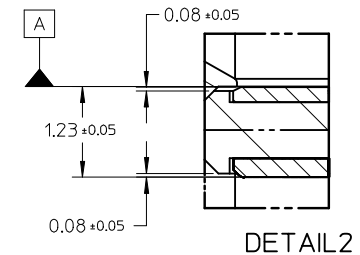
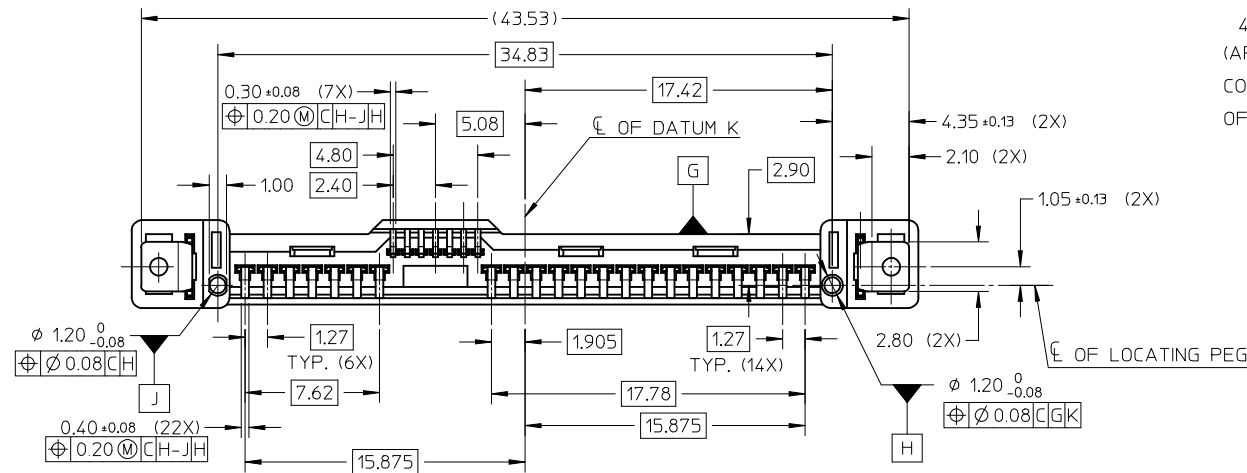
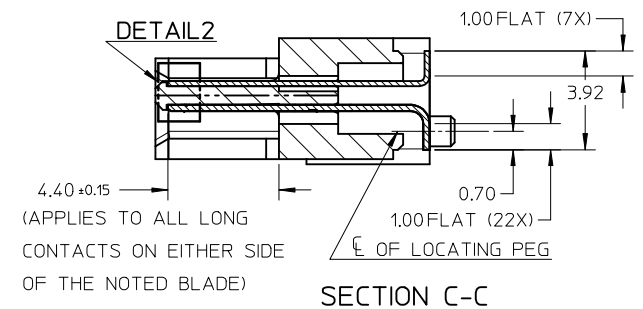
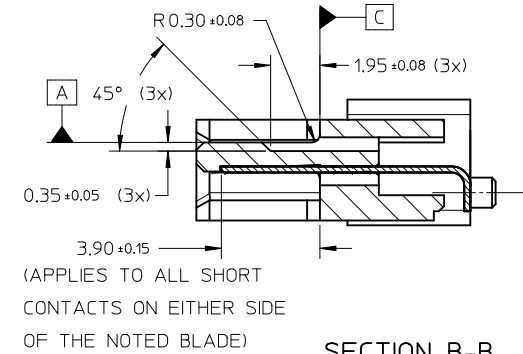
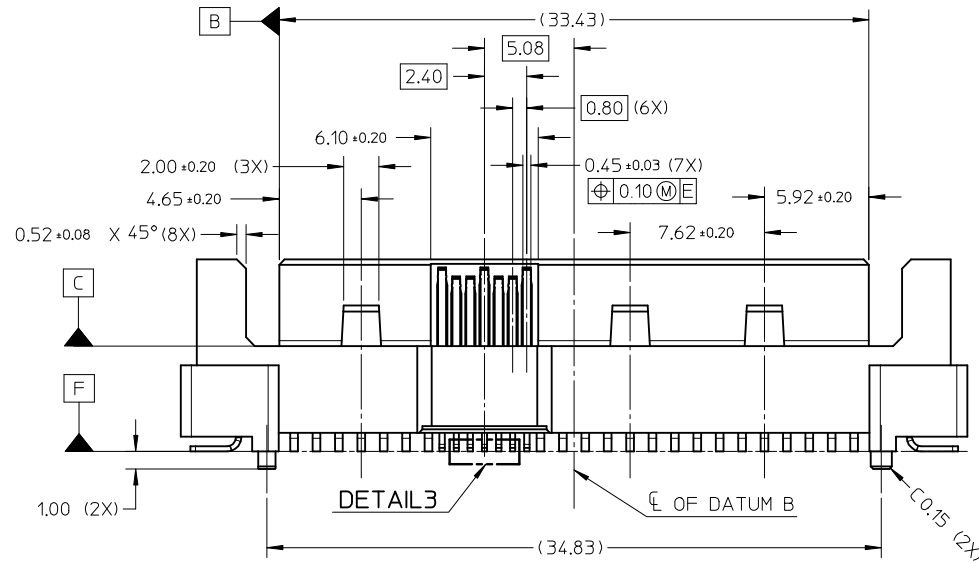
A



SECTION A-A



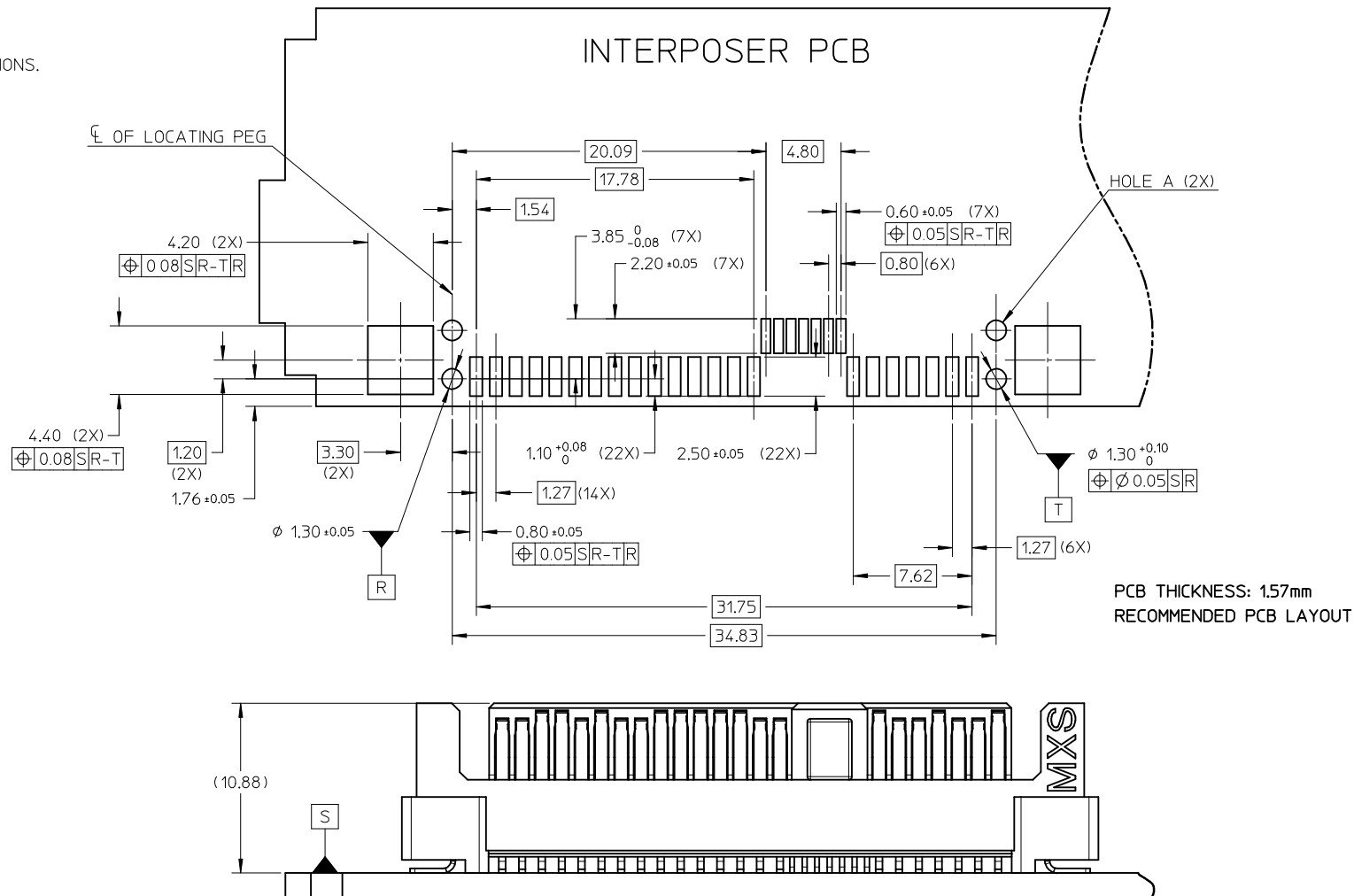
SEE SHEET 6 EC NO: S2009-0661 DRAWN: MENARLY CHKD: CGOH APPR: BOKOK A2	DESCRIPTION REV	QUALITY SYMBOLS ▽=0 C=0	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE NTS	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION					
				mm	INCH	DRAWN BY	DATE	TITLE SERIAL ATTACH SCSI (SAS) PLUG, VERTICAL MOUNT SMT						
			4 PLACES	±	---	±	---						CGTAN	2005/11/10
			3 PLACES	±	---	±	---	CHECKED BY	DATE	MOLEX INCORPORATED				
			2 PLACES	±	0.20	±	---	SHONG	2005/11/24					
			1 PLACE	±	---	±	---	APPROVED BY	DATE	DOCUMENT NO. SD-78012-101				
			ANGULAR ± 3 °			KCLING	2005/11/24							
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS				MATERIAL NO. 78012-0011		SHEET NO. 2 OF 6								
				SIZE A3	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:GEMARLY 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	MOLEX MOLEX INCORPORATED				
1 PLACE	± ---	± ---	KCLING	2005/11/24								
			ANGULAR ± 3 °		MATERIAL NO. 78012-0011		DOCUMENT NO. SD-78012-101		SHEET NO. 3 OF 6			
			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:

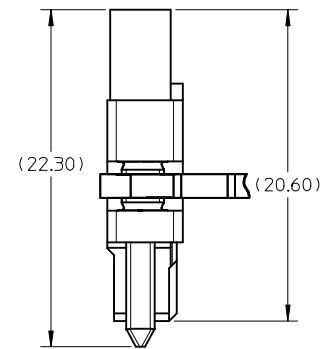
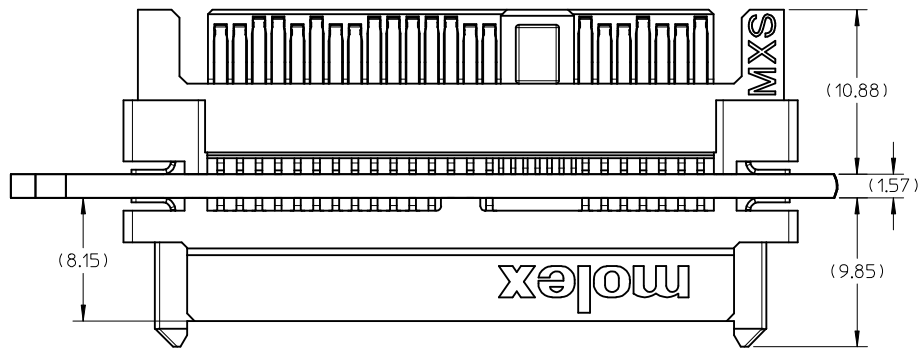
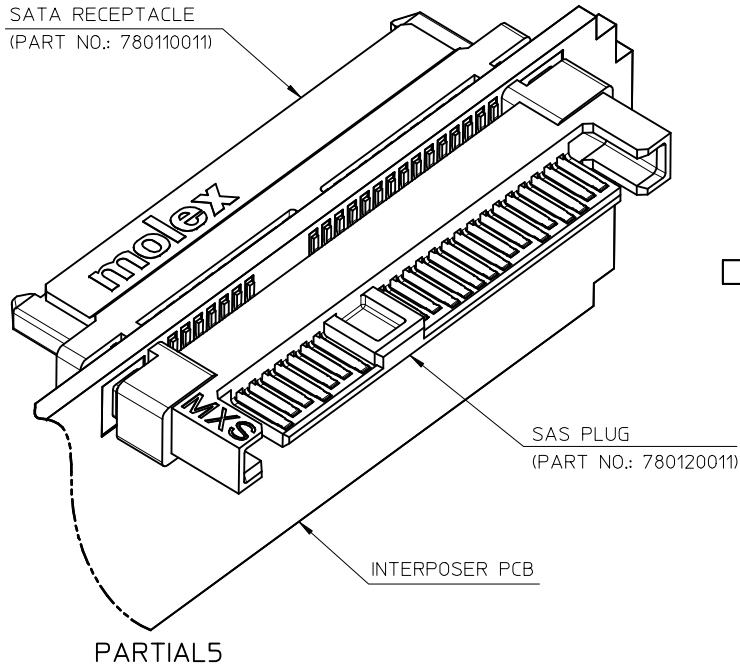
- REFER TO SD-78011-101 FOR HOLES A DETAILED DIMENSIONS.



QUALITY SYMBOLS			GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE		SCALE	DESIGN UNITS	THIRD ANGLE PROJECTION	
					MM ONLY		NTS	METRIC		
					mm	INCH	DRAWN BY	DATE	TITLE	
					3 PLACES	± ---	CGTAN	2005/11/10	SERIAL ATTACH SCSI (SAS)	
					2 PLACES	± 0.20	SHONG	2005/11/24	PLUG, VERTICAL MOUNT	
					1 PLACE	± ---	APPROVED BY	DATE	SMT	
					ANGULAR ± 3 °		KCLING	2005/11/24	MOLEX INCORPORATED	
					DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		MATERIAL NO.		DOCUMENT NO.	
							78012-0011		SD-78012-101	
							THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION		SHEET NO.	
									4 OF 6	

10 9 8 7 6 5 4 3 2 1

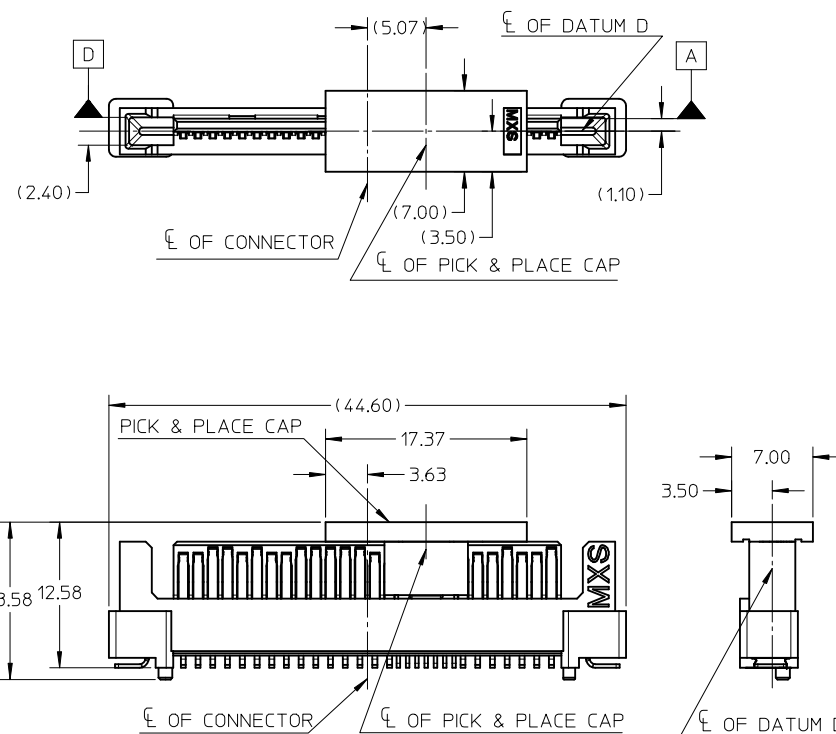
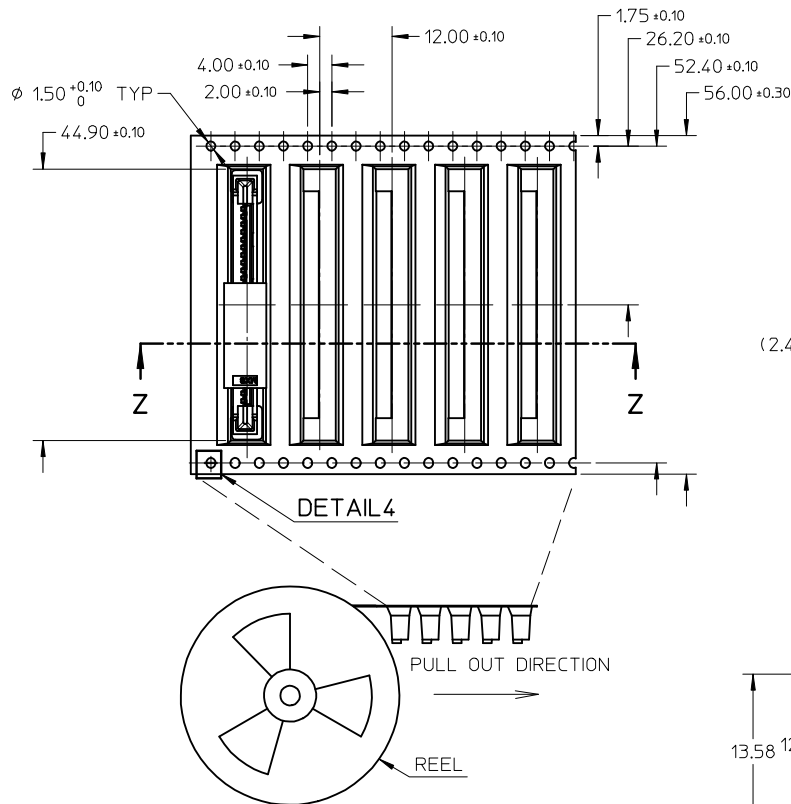
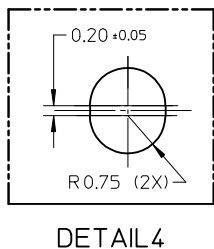
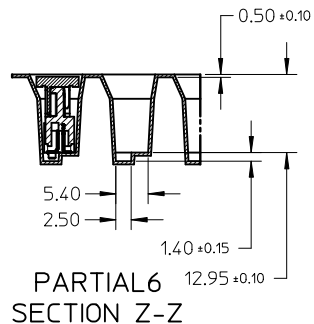
- NOTES:
1. APPLICATION AS SHOWN IN SHEET 5/6.
 2. REFER TO SD-78011-101 FOR THE DETAILS OF SATA RECEPTACLE.



SEE SHEET 6 EC NO: S2009-0661 DRWNG:GMENARLY CHKD:CGOH APPR:BOKOK A2	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 CGTAN	DATE 2005/11/10	TITLE SERIAL ATTACH SCSI (SAS) PLUG, VERTICAL MOUNT SMT	MOLEX MOLEX INCORPORATED	SHEET NO. 5 OF 6	
			4 PLACES	± ---	± ---	CHECKED BY SHONG	DATE 2005/11/24				
			3 PLACES	± ---	± ---	APPROVED BY KCLING	DATE 2005/11/24				
			2 PLACES	± 0.20	± ---						
			1 PLACE	± ---	± ---						
			ANGULAR ± 3 °		MATERIAL NO. 78012-0011		DOCUMENT NO. SD-78012-101				
			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				

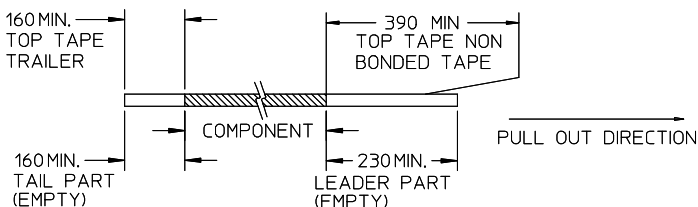
9 8 7 6 5 4 3 2 1

TAPE & REEL PACKING

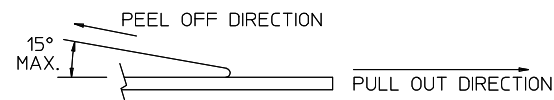


NOTES:

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: S2009-0661	2009/03/11	2009/03/12	2009/03/13
DRWN:GEMARLY	CHKD:CGOH	APPR:BOKOK		
A2				

QUALITY SYMBOLS	DESCRIPTION
▽=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	CGTAN
DATE	2005/11/10
CHECKED BY	SHONG
DATE	2005/11/24
APPROVED BY	KCLING
DATE	2005/11/24
MATERIAL NO.	78012-0011

SCALE	NTS
DESIGN UNITS	METRIC
THIRD ANGLE PROJECTION	
TITLE	SERIAL ATTACH SCSI (SAS) PLUG, VERTICAL MOUNT SMT
MOLEX INCORPORATED	
DOCUMENT NO.	SD-78012-101
SHEET NO.	6 OF 6



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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Факс: 8 (812) 320-02-42

Электронная почта: org@eplast1.ru

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