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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

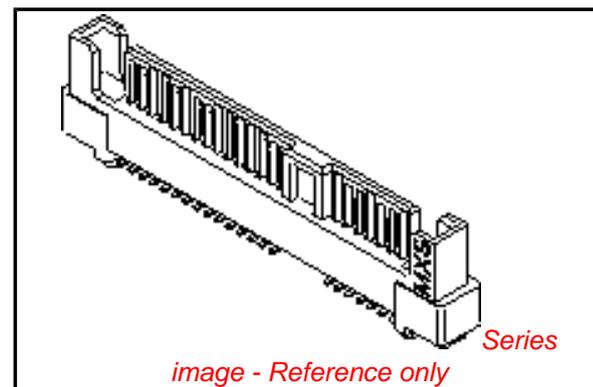
CSA LR 19980
 UL E29179

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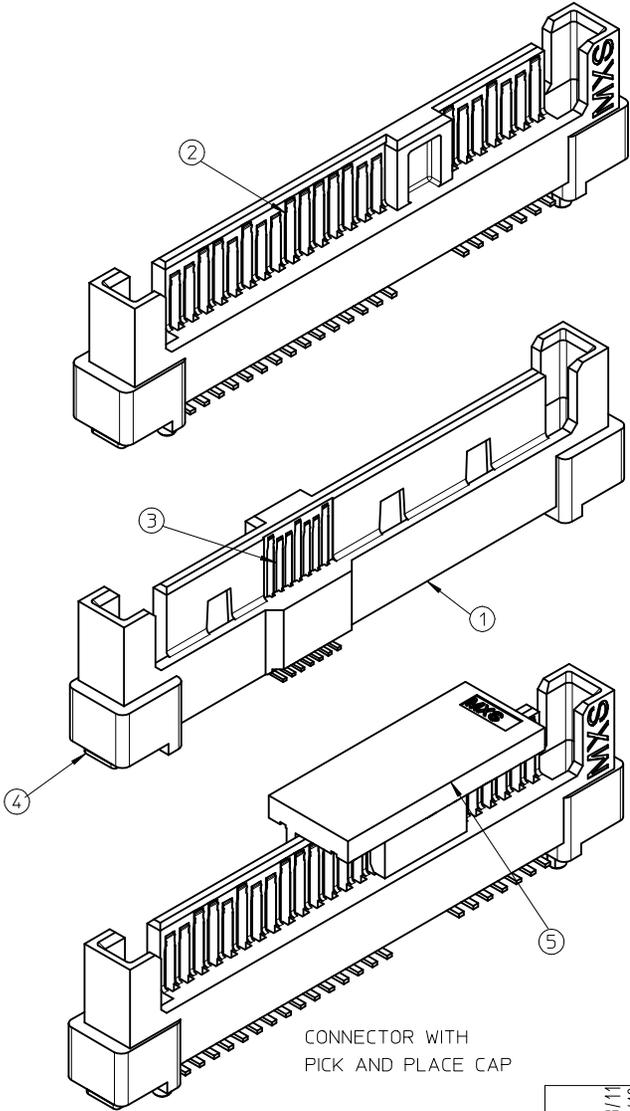
NO.	PART NAME	QTY.	MATERIAL
1	HOUSING	1	NYLON(PA), UL 94V-0, COLOR: BLACK
2	CONTACT A	22	COPPER ALLOY
3	CONTACT B	7	COPPER ALLOY
4	FITTING-NAIL	2	COPPER ALLOY
5	PICK & PLACE CAP	1	PA46, UL 94V-0, COLOR: BLACK

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)

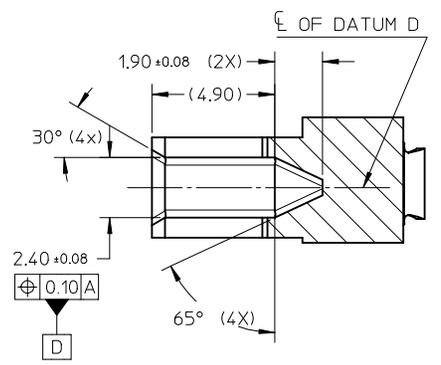
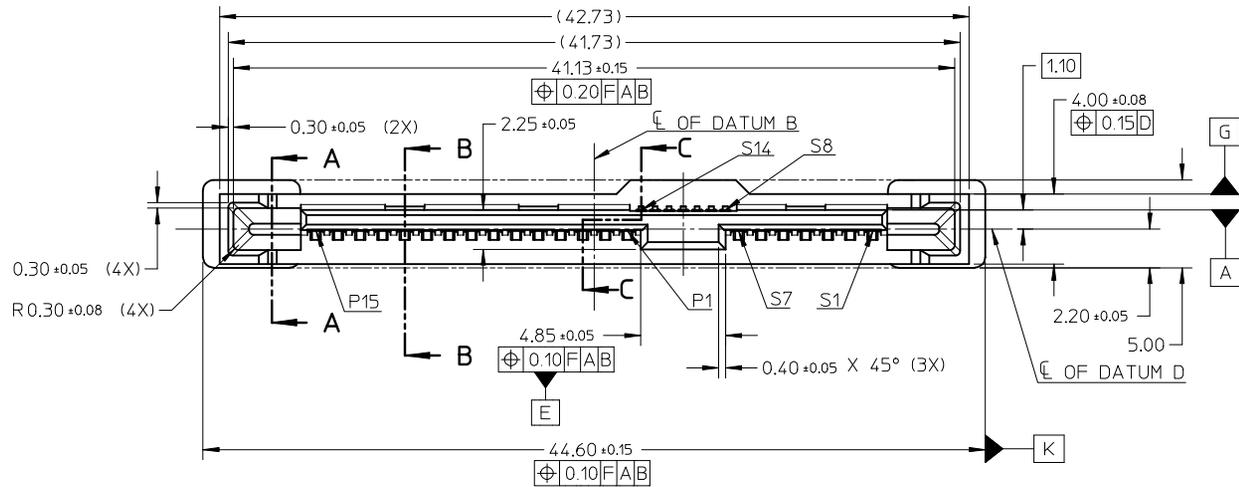
PART NAME	MATING AREA	TERMINAL AREA	OTHERS AREA
CONTACT	GOLD (0.764μm MIN.)	TIN (1.914μm MIN.)	NICKEL PLATING
	OVER 1.274μm MIN. NICKEL UNDERPLATE		
FITTING-NAIL	TIN OVER NICKEL UNDERPLATE		



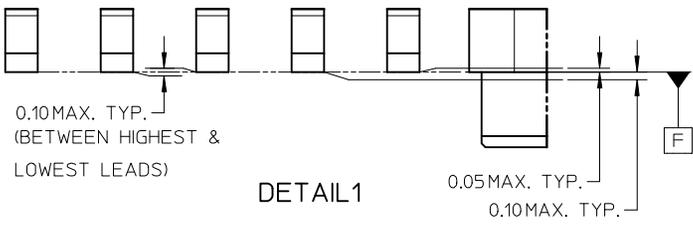
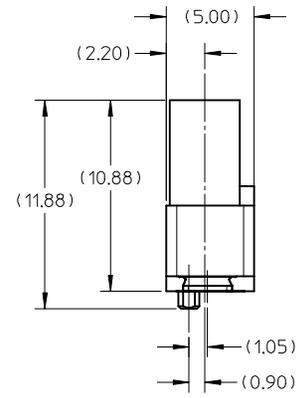
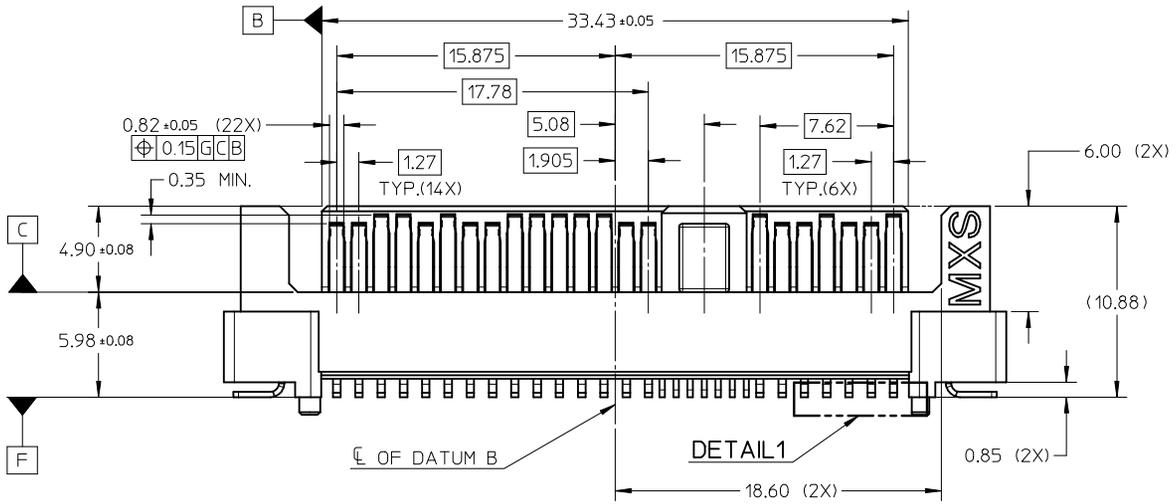
CONNECTOR WITH PICK AND PLACE CAP

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



SECTION A-A

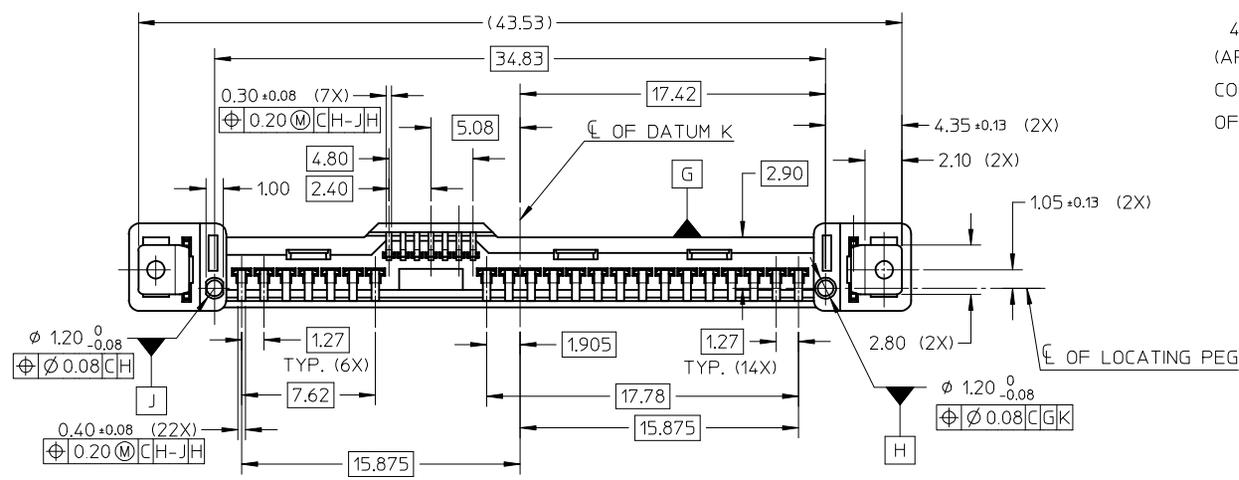
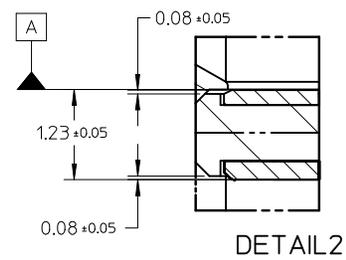
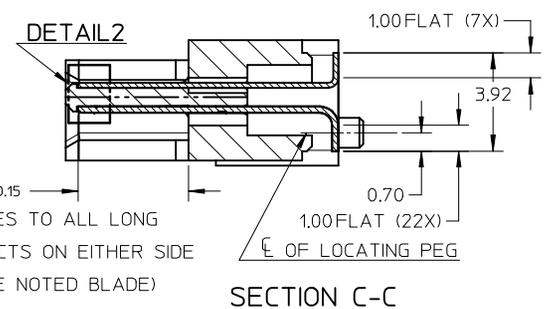
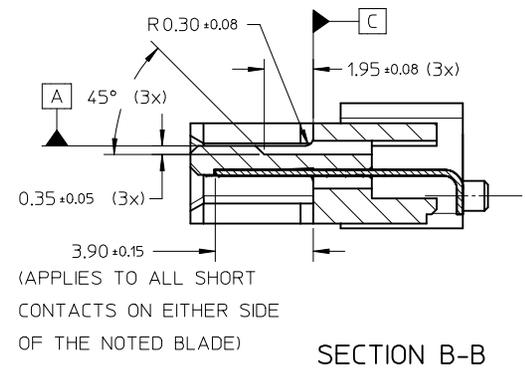
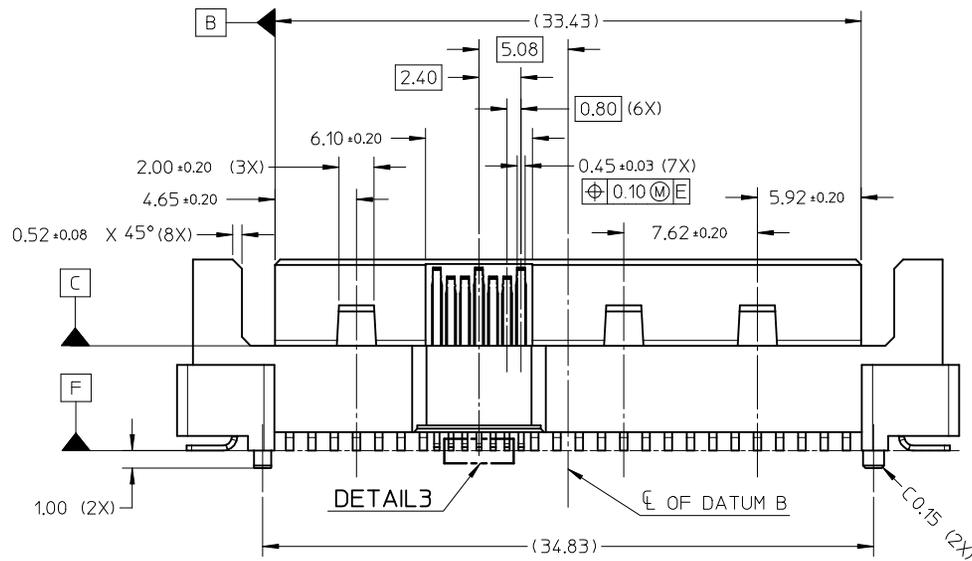


DETAIL 1

SEE SHEET 6 EC NO: S2009-0661 DRWING: MEMARLY 2009/03/11 CHKD: CGOH 2009/03/12 APPR: BOKOK 2009/03/13	QUALITY SYMBOLS ▽=0 ◻=0	GENERAL TOLERANCES (UNLESS SPECIFIED) <table border="1"> <thead> <tr> <th></th> <th>mm</th> <th>INCH</th> </tr> </thead> <tbody> <tr> <td>4 PLACES</td> <td>± ---</td> <td>± ---</td> </tr> <tr> <td>3 PLACES</td> <td>± ---</td> <td>± ---</td> </tr> <tr> <td>2 PLACES</td> <td>± 0.20</td> <td>± ---</td> </tr> <tr> <td>1 PLACE</td> <td>± ---</td> <td>± ---</td> </tr> </tbody> </table>		mm	INCH	4 PLACES	± ---	± ---	3 PLACES	± ---	± ---	2 PLACES	± 0.20	± ---	1 PLACE	± ---	± ---	DIMENSION STYLE MM ONLY	SCALE NTS	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION
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3 PLACES	± ---	± ---																			
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DESCRIPTION A2	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS	<table border="1"> <thead> <tr> <th>DRAWN BY</th> <th>DATE</th> <th>TITLE</th> </tr> </thead> <tbody> <tr> <td>CGTAN</td> <td>2005/11/10</td> <td rowspan="4"> SERIAL ATTACH SCSI (SAS) PLUG, VERTICAL MOUNT SMT </td> </tr> <tr> <td>CHECKED BY</td> <td>DATE</td> </tr> <tr> <td>SHONG</td> <td>2005/11/24</td> </tr> <tr> <td>APPROVED BY</td> <td>DATE</td> </tr> </tbody> </table>	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	MATERIAL NO. 78012-0011	MOLEX INCORPORATED	SHEET NO. 2 OF 6				
DRAWN BY	DATE	TITLE																			
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9 8 7 6 5 4 3 2 1

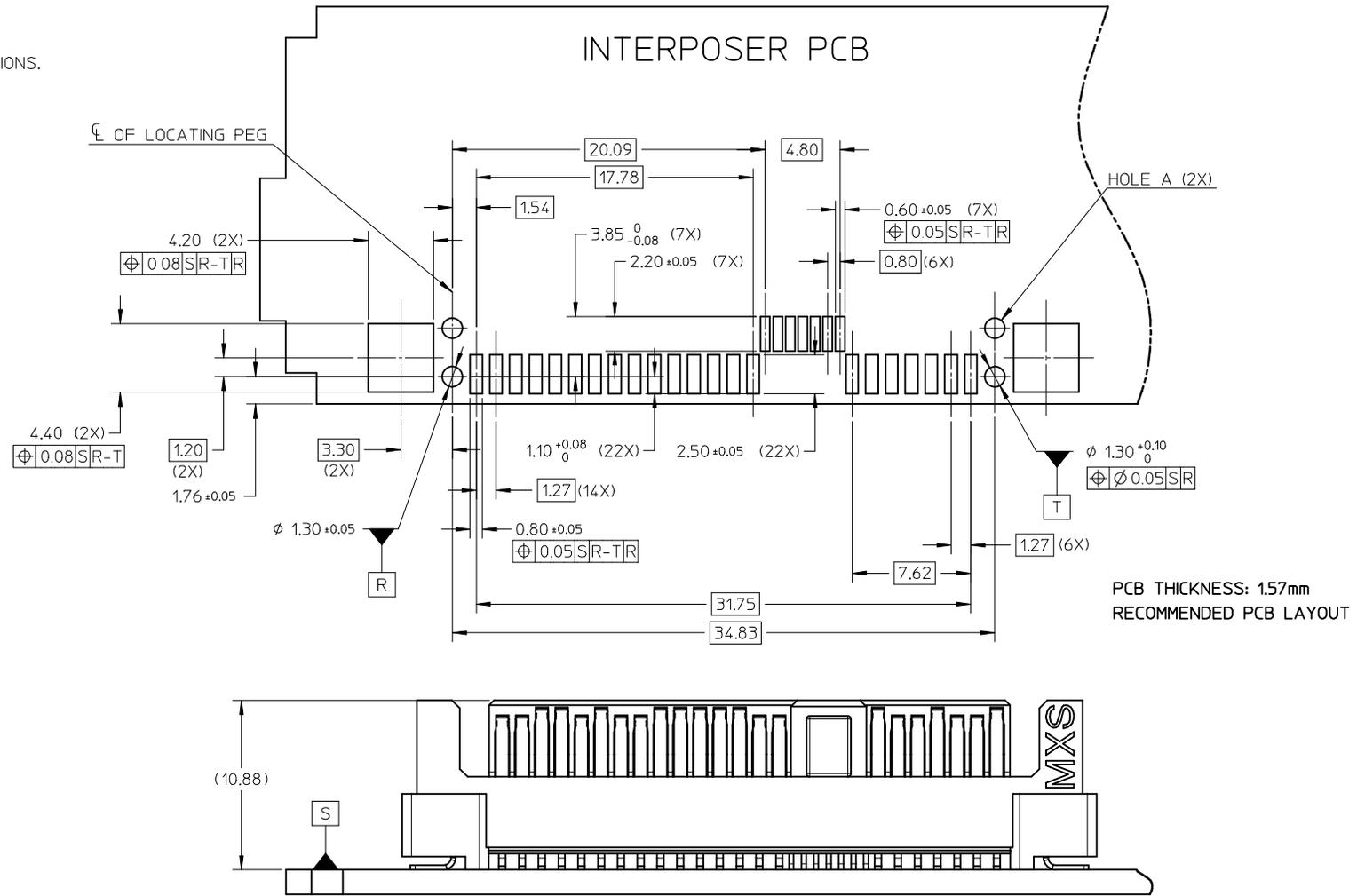
10 9 8 7 6 5 4 3 2 1



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		APPROVED BY KCLING	DATE 2005/11/24	MATERIAL NO. 78012-0011	DOCUMENT NO. SD-78012-101	SHEET NO. 3 OF 6															

9 8 7 6 5 4 3 2 1

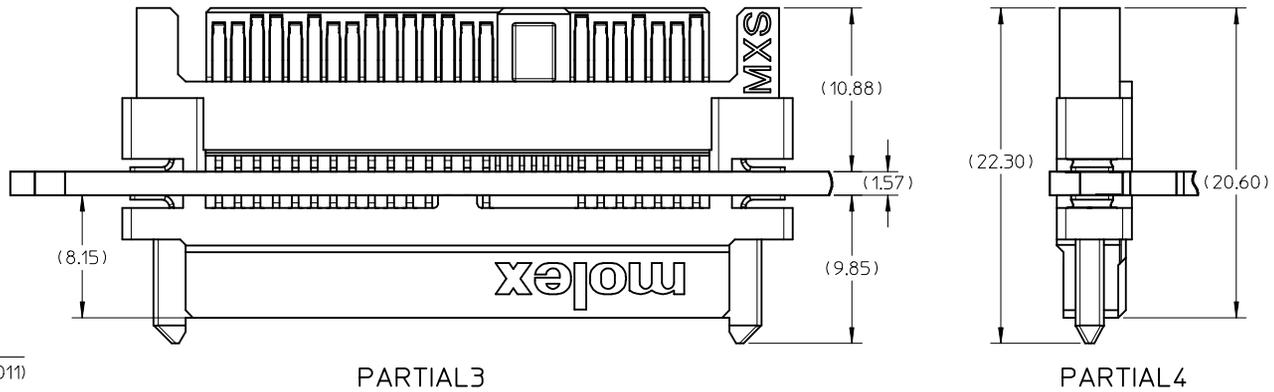
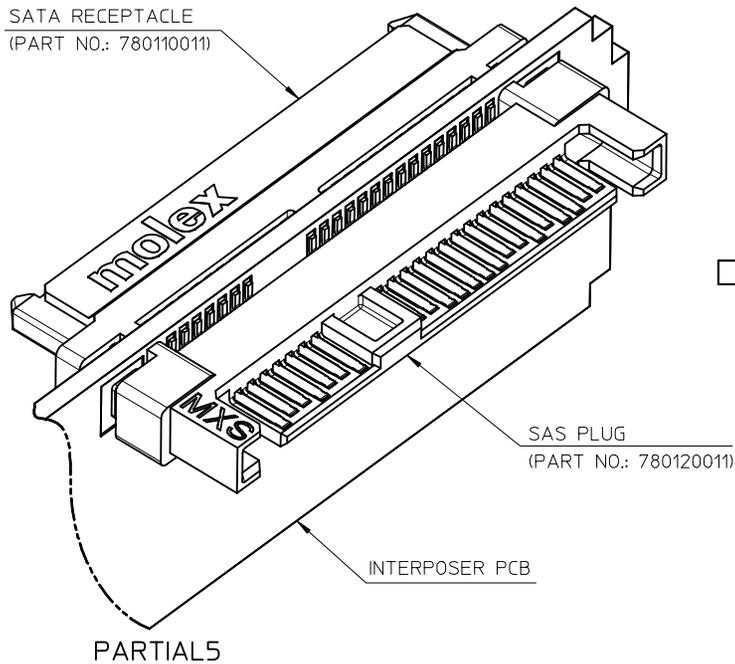
NOTES:
 1. REFER TO SD-78011-101
 FOR HOLES A DETAILED DIMENSIONS.



PCB THICKNESS: 1.57mm
 RECOMMENDED PCB LAYOUT

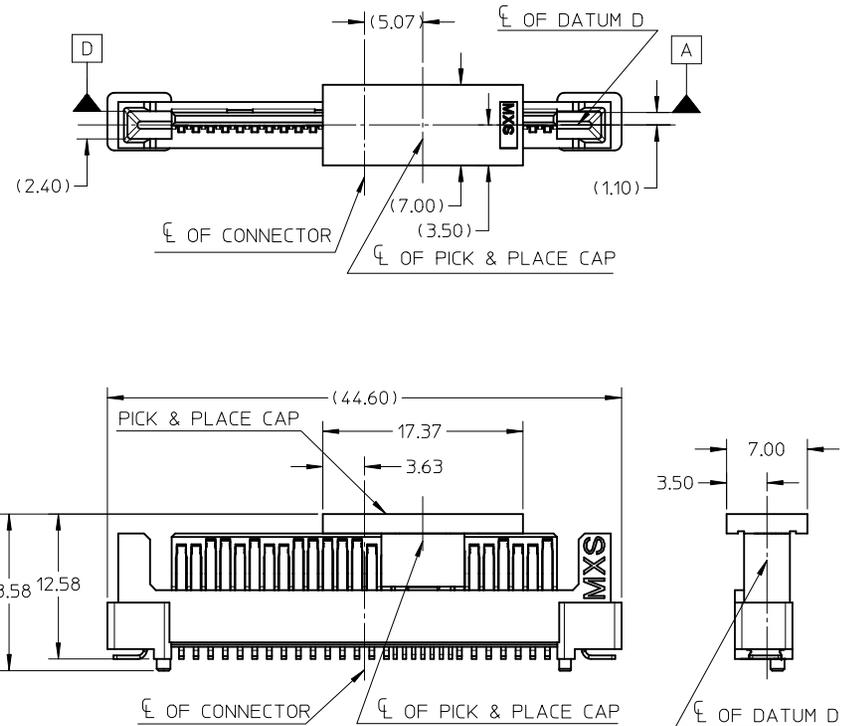
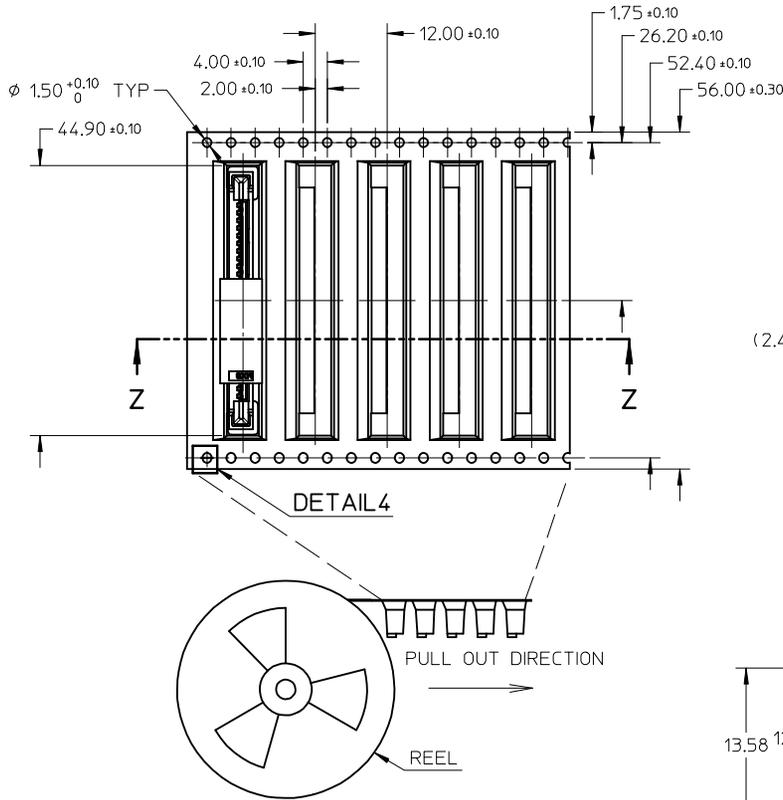
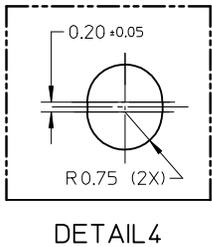
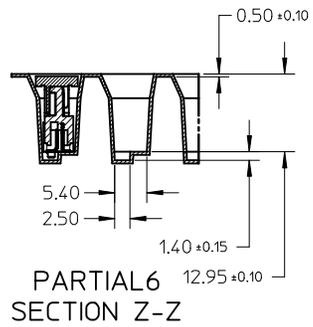
SEE SHEET 6 EC NO: S2009-0661 DRW: GEMARLY CHKD: CGOH APPR: BOKOK	2009/03/11	2009/03/12	2009/03/13	QUALITY SYMBOLS ▽=0 Ⓢ=0	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE NTS	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION	
	mm		INCH		DRAWN BY CGTAN	DATE 2005/11/10	TITLE SERIAL ATTACH SCSI (SAS) PLUG, VERTICAL MOUNT SMT					
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	3 PLACES ± ---		± ---		APPROVED BY KCLING	DATE 2005/11/24	DOCUMENT NO. SD-78012-101					
2 PLACES ± 0.20		± ---		ANGULAR ± 3 °		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		MOLEX INCORPORATED				
1 PLACE ± ---		± ---		SIZE A3		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION						
A2		REV		DESCRIPTION		SHEET NO. 4 OF 6		SHEET NO. SD-78012-101				

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



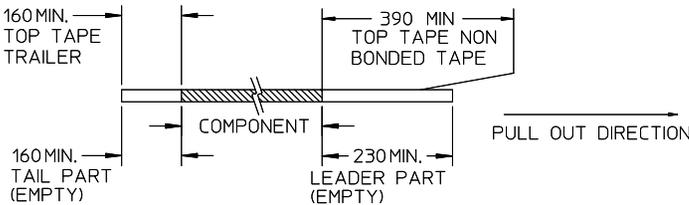
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	▼=0 □=0	mm	INCH	MM ONLY	NTS	METRIC			
		4 PLACES ± ---	± ---	DRAWN BY	DATE	TITLE			
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			MATERIAL NO.		SHEET NO.				
			78012-0011		5 OF 6				
			SIZE	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION					
			A3						

TAPE & REEL PACKING

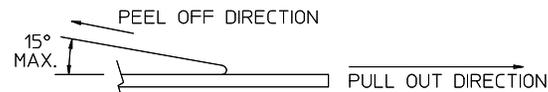


NOTES:

1. LEADER AND TRAILER TAPE



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



3. TAPE AND REEL SPECIFICATION IS AS PER EIA-481.

4. TAPE AND REEL QUANTITY : 250 PCS/ REEL.

5. THE TAPE IS TREATED FOR ANTI-STATIC.

CHANGED T&R QTY EC NO: S2009-0661 DRWING: MENARLY CHKD: CGOH APPR: BOKOK	2009/03/11	2009/03/12	2009/03/13
	DESCRIPTION		
	REV		
	A2		

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 CGTAN	DATE 2005/11/10
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MATERIAL NO. 78012-0011	
SIZE A3	

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	
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Вы можете разместить у нас заказ для любого Вашего проекта, будь то серийное производство или разработка единичного прибора.

В нашем ассортименте представлены ведущие мировые производители активных и пассивных электронных компонентов.

Нашей специализацией является поставка электронной компонентной базы двойного назначения, продукции таких производителей как XILINX, Intel (ex.ALTERA), Vicor, Microchip, Texas Instruments, Analog Devices, Mini-Circuits, Amphenol, Glenair.

Сотрудничество с глобальными дистрибьюторами электронных компонентов, предоставляет возможность заказывать и получать с международных складов практически любой перечень компонентов в оптимальные для Вас сроки.

На всех этапах разработки и производства наши партнеры могут получить квалифицированную поддержку опытных инженеров.

Система менеджмента качества компании отвечает требованиям в соответствии с ГОСТ Р ИСО 9001, ГОСТ РВ 0015-002 и ЭС РД 009

Офис по работе с юридическими лицами:

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