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Part Number: [0781641051](#)
Status: **Active**
Description: 1.27mm (.050") Pitch SAS Combo Device Plug, Vertical, SMT, Standard Height 7.88mm (.310"), with Solder Tab and Pick-and-Place Cap, 29 Circuits, Lead free

Documents:

[3D Model](#) [Product Specification PS-78012-002 \(PDF\)](#)
[Drawing \(PDF\)](#) [RoHS Certificate of Compliance \(PDF\)](#)

Agency Certification

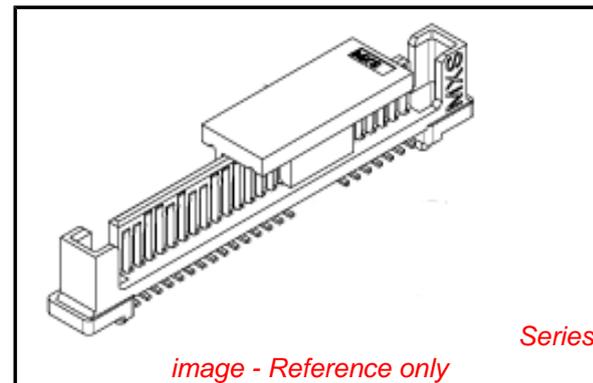
CSA LR19980
 UL E29179

General

Product Family I/O Connectors
 Series [78164](#)
 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 - Plating Mating Gold
 Material - Plating Termination Tin
 Number of Rows 1
 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) 0.000 In
 PCB Thickness Recommended (mm) 0.00 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) 0.031 In, 0.050 In
 Pitch - Term. Interface (mm) 0.80 mm, 1.27 mm
 Polarized to Mating Part Yes
 Polarized to PCB Yes
 Ports 2
 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



EU RoHS

**ELV and RoHS
 Compliant**
REACH SVHC
 Not Reviewed
**Halogen-Free
 Status**
 Not Reviewed

China RoHS



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 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

[78164Series](#)

Mates With

78011 SAS/SATA Receptacle; and 87824,
 87839, 87863, 87970, 87945, 87975 SAS
 Receptacles

Electrical

Current - Maximum per Contact	1.5A
Shielded	No
Voltage - Maximum	30V

Solder Process Data

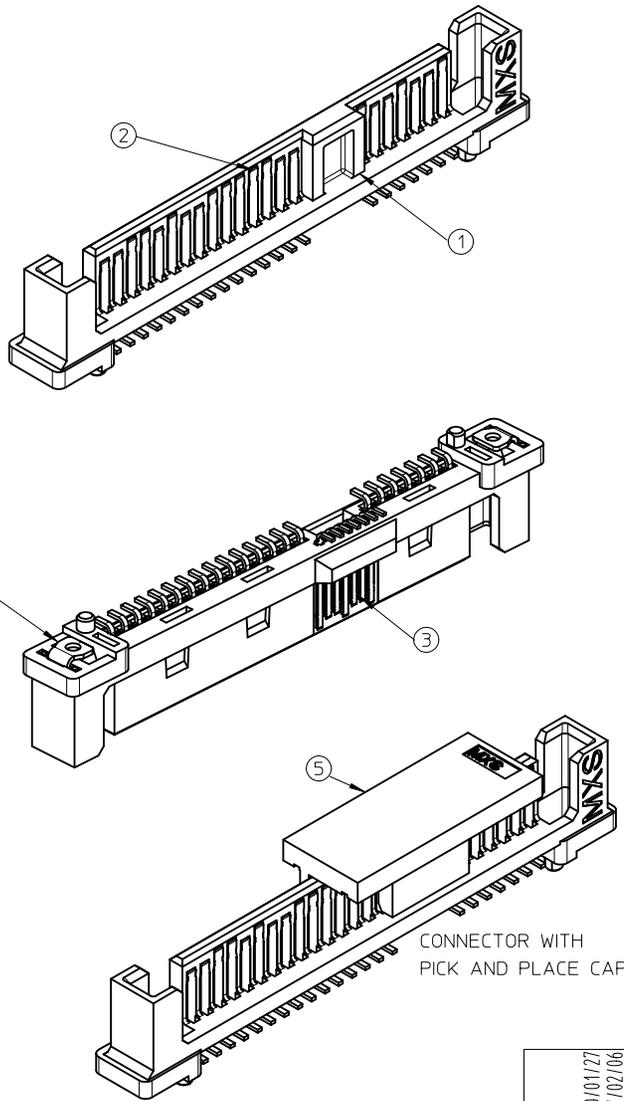
Duration at Max. Process Temperature (seconds)	10
Lead-free Process Capability	Reflow Capable (SMT only)
Max. Cycles at Max. Process Temperature	1
Process Temperature max. C	260

Material Info**Reference - Drawing Numbers**

Product Specification	PS-78012-002
Sales Drawing	SD-78164-100

This document was generated on 04/02/2010

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CONNECTOR WITH PICK AND PLACE CAP

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:

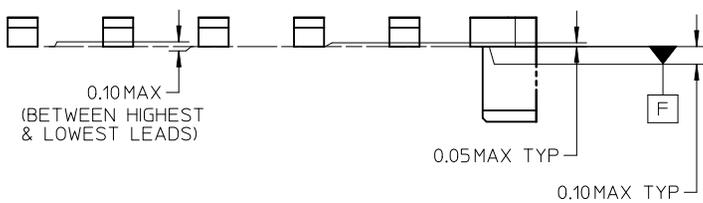
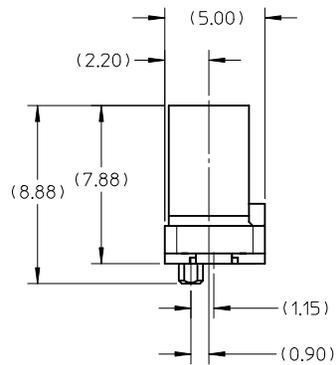
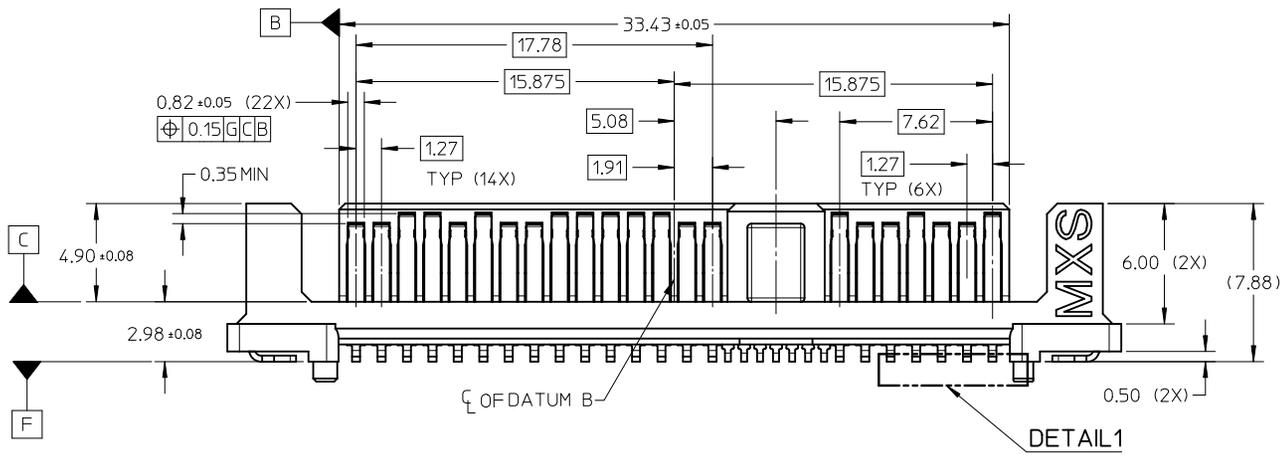
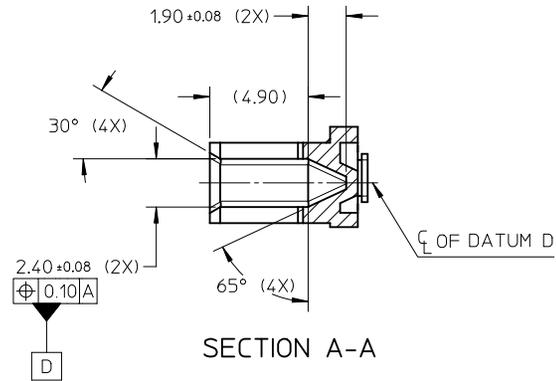
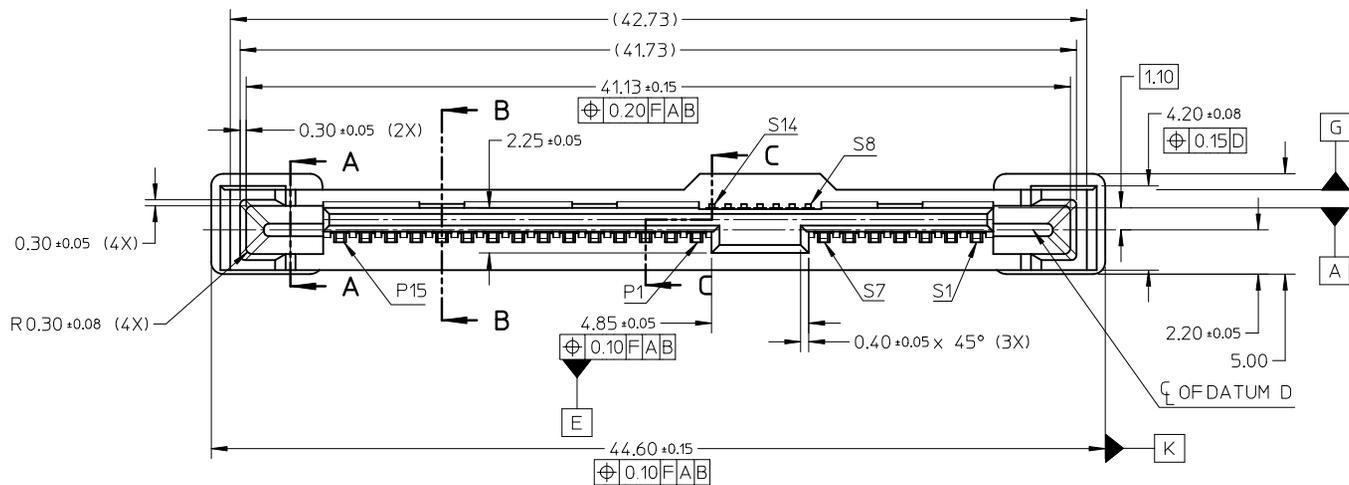
1. MATERIAL: REFER TO THE ABOVE PART-LIST.
2. PLATING SPECIFICATION: REFER TO TABLE-1.
3. APPLICABLE INDUSTRY SPECIFICATION :
SFF-8482 UNSHIELDED DUAL PORT SERIAL ATTACHMENT CONNECTOR.
4. PRODUCT SPECIFICATION: PS-78012-002.
5. PACKING: REFER TO PACKING INFORMATION (SHEET 5/5).
6. DATE CODE FORMAT: YEAR & 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 (0.76µm MIN.)	TIN (1.91µm MIN.)	NICKEL PLATING
	OVER 1.27µm MIN. NICKEL UNDERPLATE		
FITTING-NAIL	TIN OVER NICKEL UNDERPLATE		

UPDATE VIEWS EC NO: S2010-0638 DRWN:CGOH CHKD:JTAN02 APPR:BOKOK 2010/01/27 2007/02/06 2010/02/02	QUALITY SYMBOLS $F_A=0$ $F_G=0$ $F_P=0$	GENERAL TOLERANCES (UNLESS SPECIFIED) mm INCH 4 PLACES ± --- ± --- 3 PLACES ± --- ± --- 2 PLACES ± 0.20 ± --- 1 PLACE ± --- ± --- ANGULAR ± 3 °	DIMENSION STYLE MM ONLY DRAWN BY: CGOH DATE: 2007/01/12 CHECKED BY: CGTAN DATE: 2007/02/06 APPROVED BY: BOKOK DATE: 2010/02/02	SCALE: NTS DESIGN UNITS: METRIC THIRD ANGLE PROJECTION	TITLE: SERIAL ATA SCSI (SAS) PLUG, VERTICAL MOUNT SMT MOLEX INCORPORATED MATERIAL NO. 78164-1051 DOCUMENT NO. SD-78164-100	SHEET NO. 1 OF 5
	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		
	A2					
	REV					

10 9 8 7 6 5 4 3 2 1

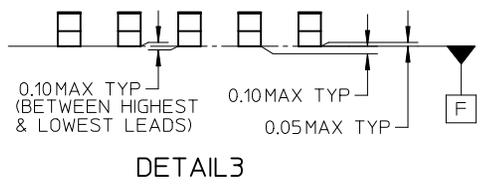
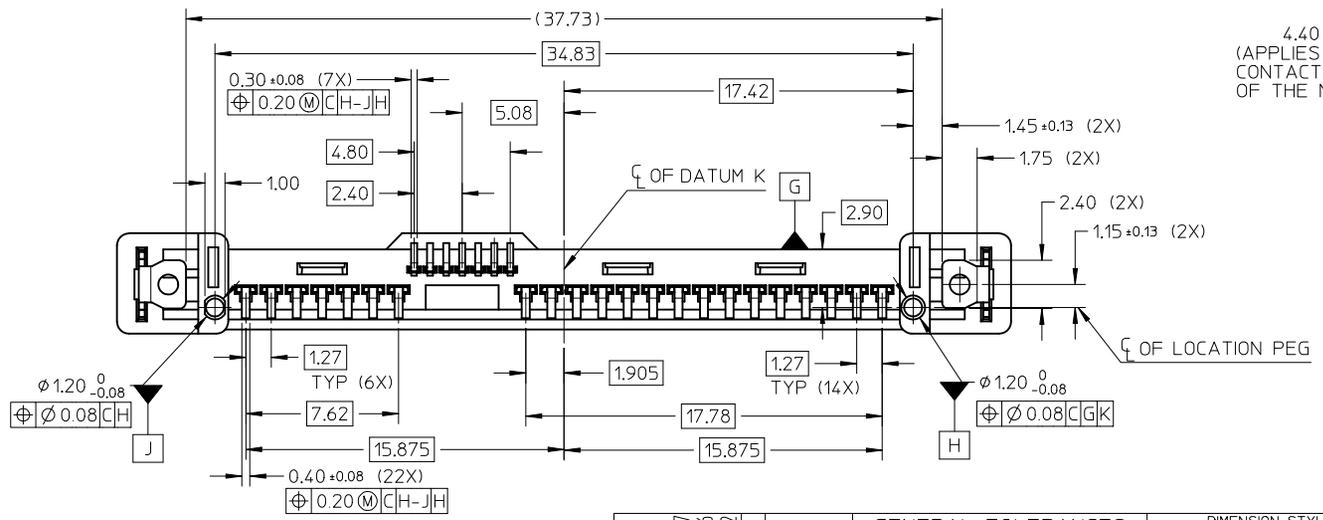
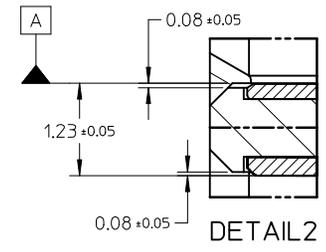
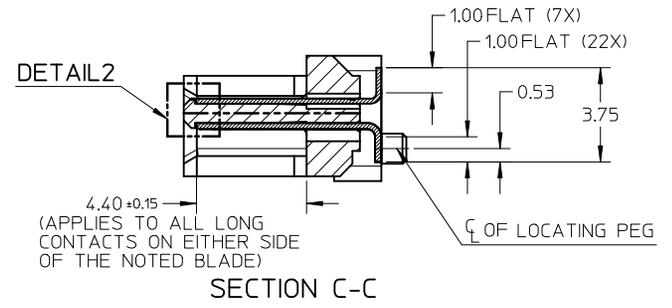
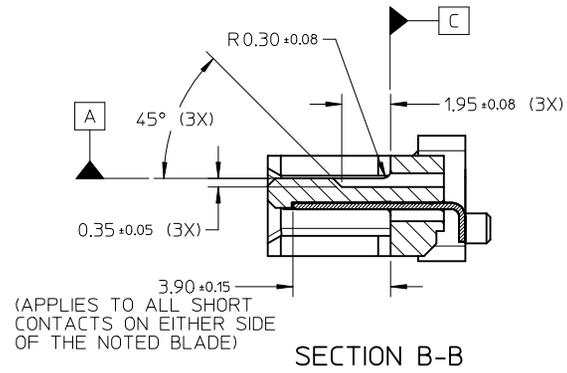
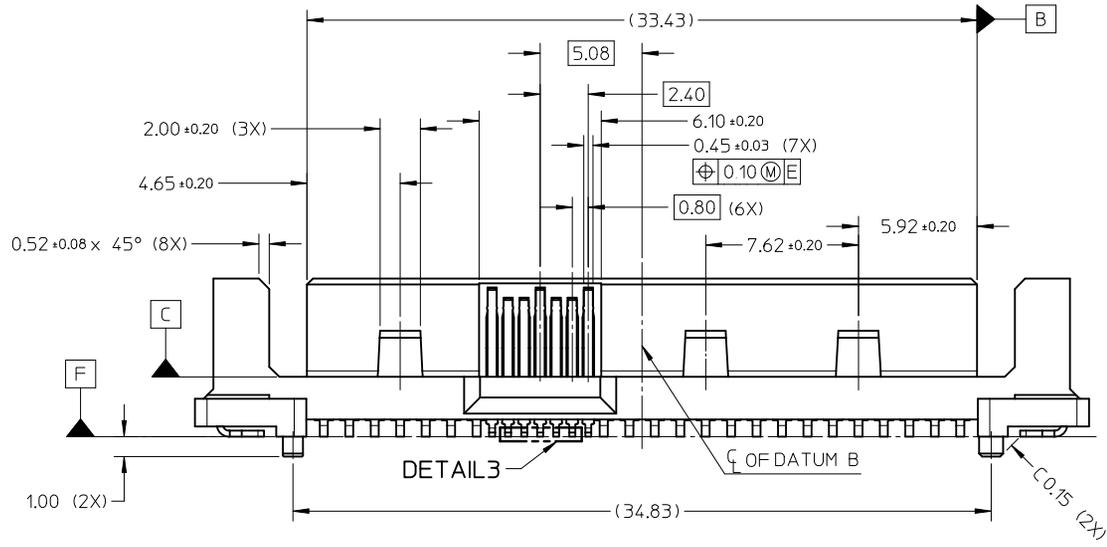


DETAIL1

UPDATE VIEWS EC NO: S2010-0638 DRWN:CGOH CHKD:JTAN02 APPR:BOKOK 2010/01/27 2007/02/06 2010/02/02	QUALITY SYMBOLS $F_A=0$ $F_C=0$ $F_B=0$	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE NTS	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION																	
		<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	± ---	± ---	DRAWN BY CGOH		DATE 2007/01/12	TITLE SERIAL ATA SCSI (SAS) PLUG, VERTICAL MOUNT SMT			
			mm	INCH																					
		4 PLACES	± ---	± ---																					
3 PLACES	± ---	± ---																							
2 PLACES	± 0.20	± ---																							
1 PLACE	± ---	± ---																							
ANGULAR ± 3°		CHECKED BY CGTAN		DATE 2007/02/06	MOLEX INCORPORATED																				
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		MATERIAL NO. 78164-1051		APPROVED BY BOKOK		DATE 2010/02/02	DOCUMENT NO. SD-78164-100	SHEET NO. 2 OF 5																	

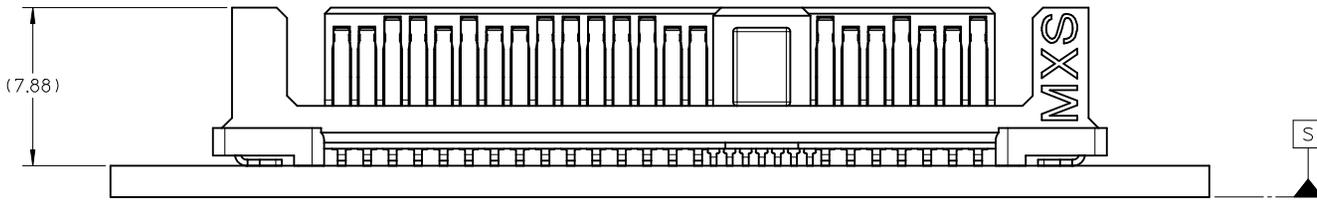
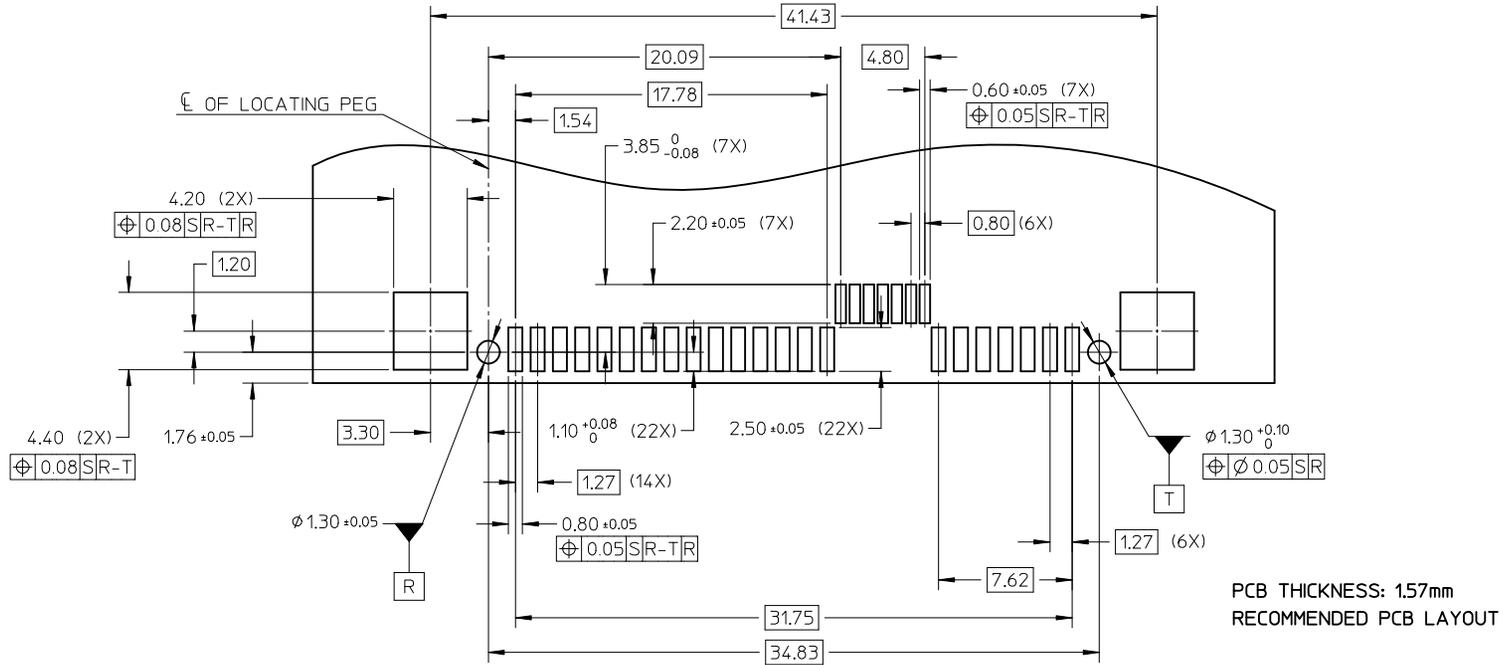
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10 9 8 7 6 5 4 3 2 1



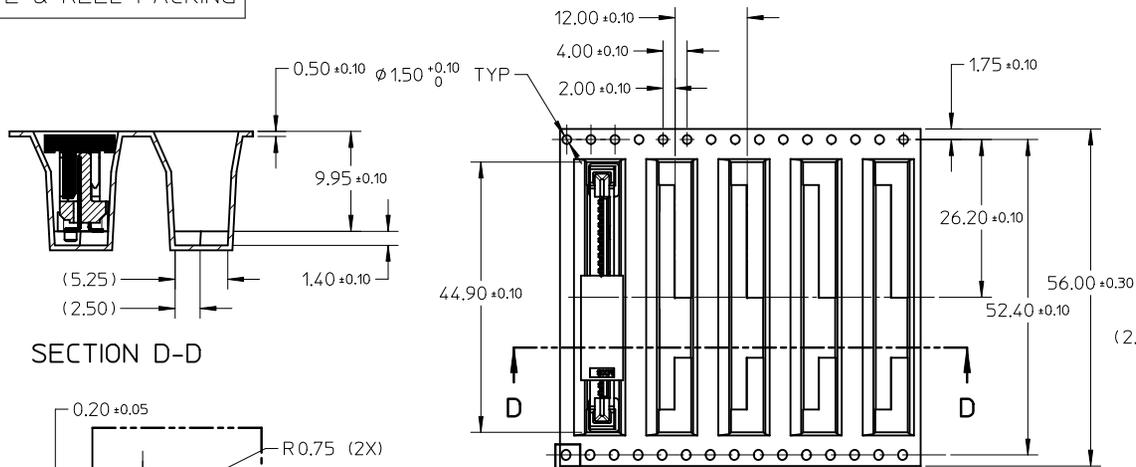
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		4 PLACES ± --- ± --- 3 PLACES ± --- ± --- 2 PLACES ± 0.20 ± --- 1 PLACE ± --- ± ---	mm INCH	DRAWN BY CGOH	DATE 2007/01/12	TITLE SERIAL ATA SCSI (SAS) PLUG, VERTICAL MOUNT SMT			
		ANGULAR ± 3°		CHECKED BY CGTAN	DATE 2007/02/06	MOLEX INCORPORATED			
		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		APPROVED BY BOKOK	DATE 2010/02/02	MATERIAL NO. 78164-1051	DOCUMENT NO. SD-78164-100	SHEET NO. 3 OF 5	

9 8 7 6 5 4 3 2 1

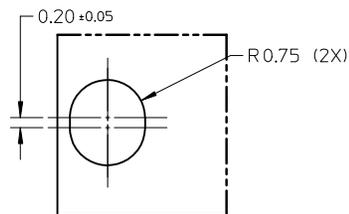


UPDATE VIEWS EC NO: S2010-0638 DRWN: CGOH CHKD: JTAN02 APPR: BOKOK	2010/01/27 2007/02/06 2010/02/02	DESCRIPTION REV	QUALITY SYMBOLS	GENERAL TOLERANCES (UNLESS SPECIFIED)	DIMENSION STYLE	SCALE	DESIGN UNITS	THIRD ANGLE PROJECTION
			$F_A=0$	mm INCH	MM ONLY	NTS	METRIC	
			$F_C=0$	4 PLACES ± --- ± ---	DRAWN BY DATE			TITLE
			$F_P=0$	3 PLACES ± --- ± ---	CGOH 2007/01/12			SERIAL ATA SCSI (SAS) PLUG, VERTICAL MOUNT SMT
	2 PLACES ± 0.20 ± ---	CHECKED BY DATE						
	1 PLACE ± --- ± ---	CGTAN 2007/02/06						
	ANGULAR ± 3°	APPROVED BY DATE						
		BOKOK 2010/02/02						
		MATERIAL NO.						
		78164-1051						
		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						

TAPE & REEL PACKING

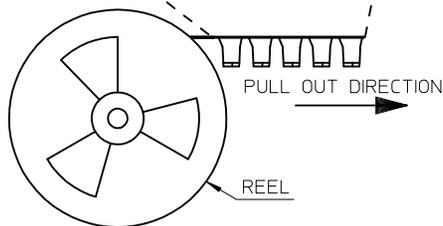


SECTION D-D

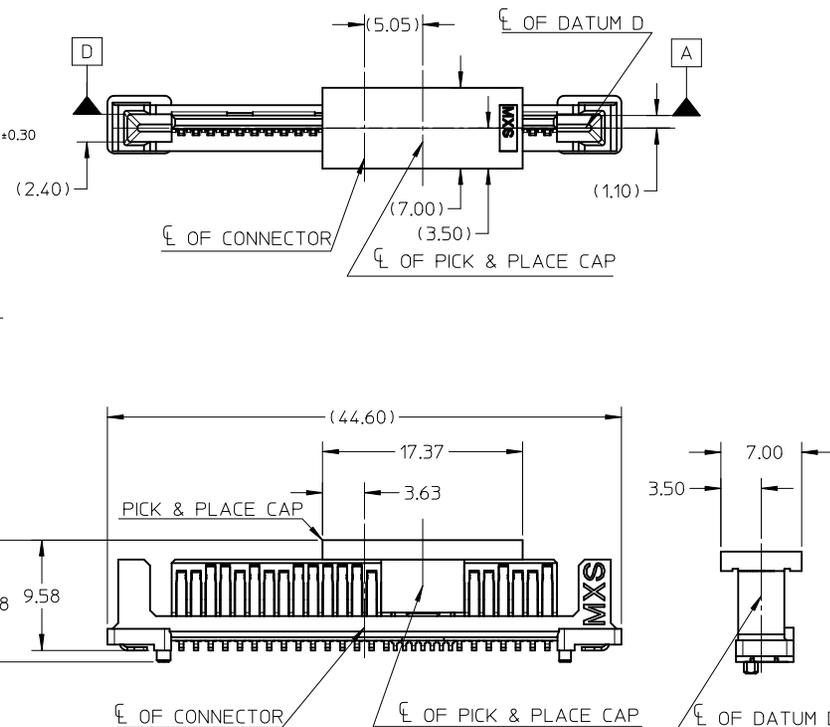


DETAIL 4

DETAIL 4

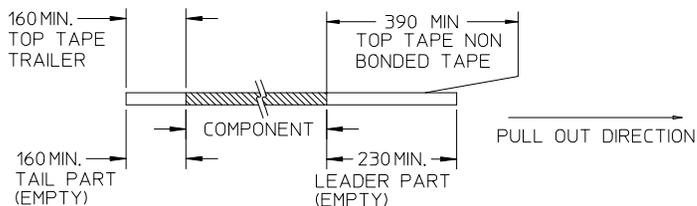


REEL



NOTES:

1. LEADER AND TRAILER TAPE



2. PEELING OFF FORCE OF THE TOP TAPE: 20 - 80gf MAX. (PEELING DIRECTION AS SHOWN IN FOLLOWING FIGURE)



- 3. TAPE AND REEL SPECIFICATION IS AS PER EIA-481.
- 4. TAPE AND REEL QUANTITY : 400 PCS/ REEL.
- 5. THE TAPE IS TREATED FOR ANTI-STATIC.

UPDATE VIEWS EC NO: S2010-0638 DRWN:CGOH CHKD:JTAN02 APPR:BOKOK	2010/01/27 2007/02/06 2010/02/02	DESCRIPTION A2	QUALITY SYMBOLS	GENERAL TOLERANCES (UNLESS SPECIFIED)	DIMENSION STYLE	SCALE	DESIGN UNITS	THIRD ANGLE PROJECTION
			$\nabla_A = 0$ $\nabla_C = 0$ $\nabla_P = 0$	mm INCH 4 PLACES ± --- ± --- 3 PLACES ± --- ± --- 2 PLACES ± 0.20 ± --- 1 PLACE ± --- ± --- ANGULAR ± 3 °	MM ONLY	NTS	METRIC	
				DRAWN BY: CGOH DATE: 2007/01/12 CHECKED BY: CGTAN DATE: 2007/02/06 APPROVED BY: BOKOK DATE: 2010/02/02	TITLE	SERIAL ATA SCSI (SAS) PLUG, VERTICAL MOUNT SMT		
				MATERIAL NO. 78164-1051 DOCUMENT NO. SD-78164-100 SHEET NO. 5 OF 5	MOLEX INCORPORATED			

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

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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.

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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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