

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

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

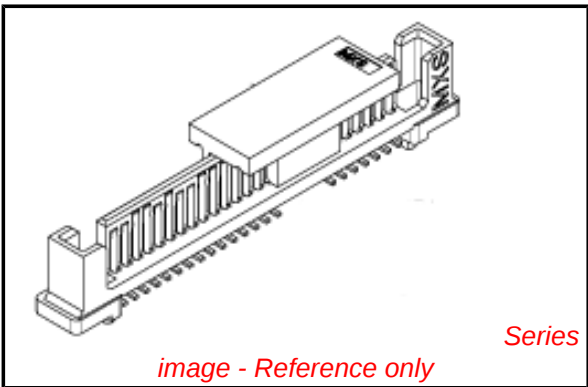
CSA	LR19980
UL	E29179

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

**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.

China RoHS



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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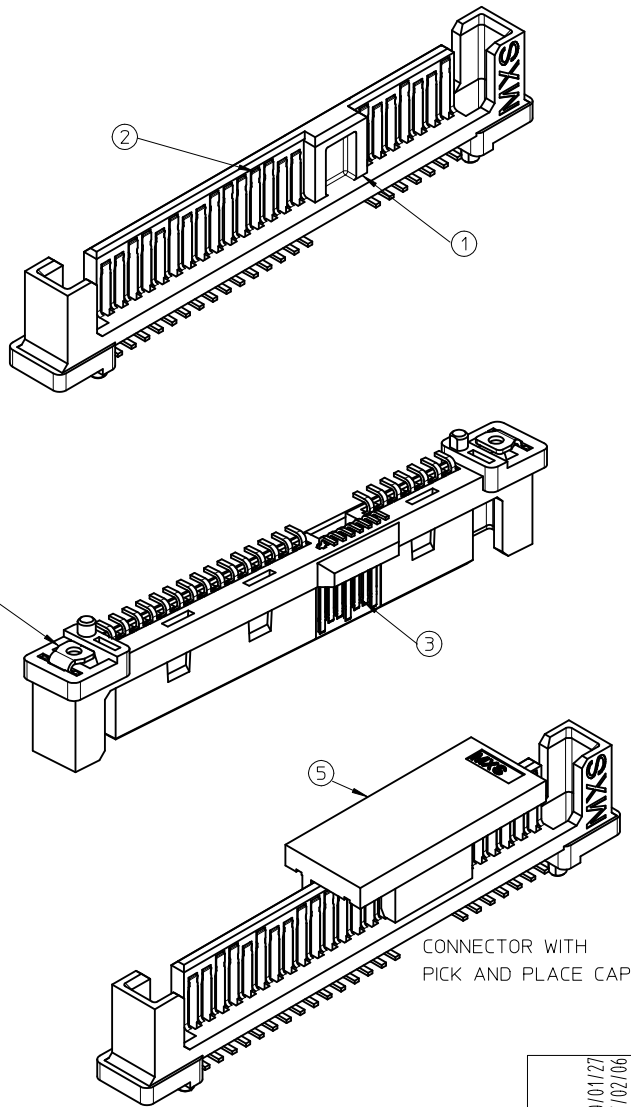
E

D

C

B

A



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

F

E

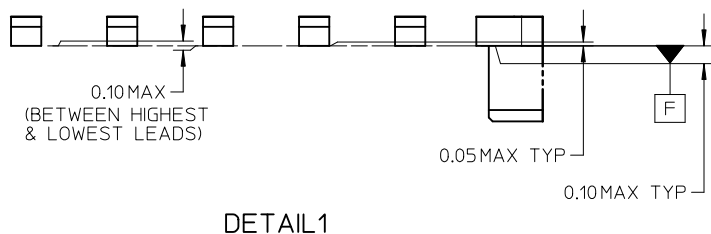
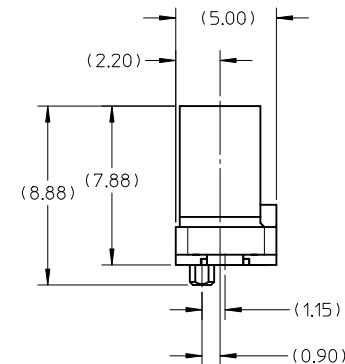
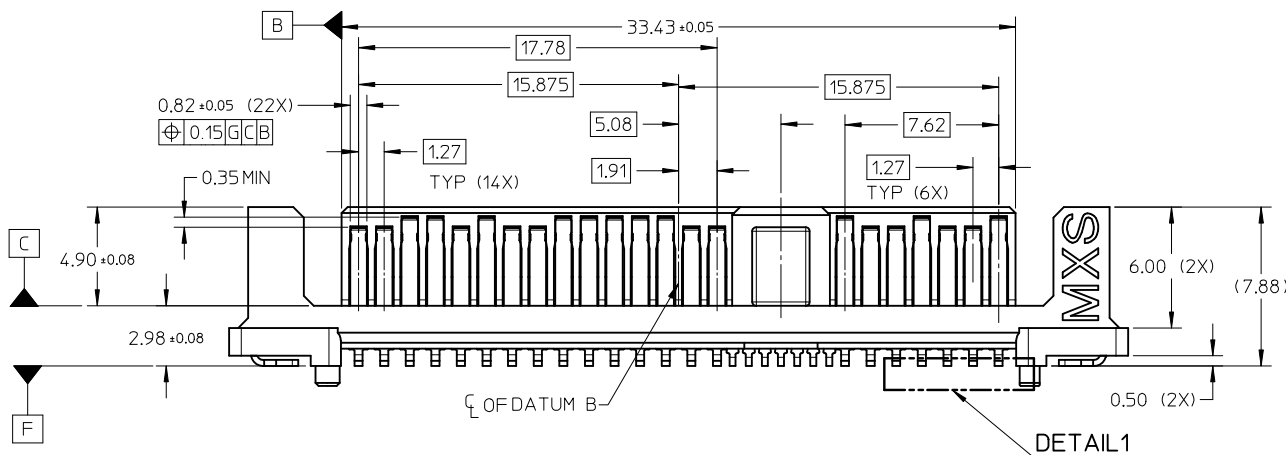
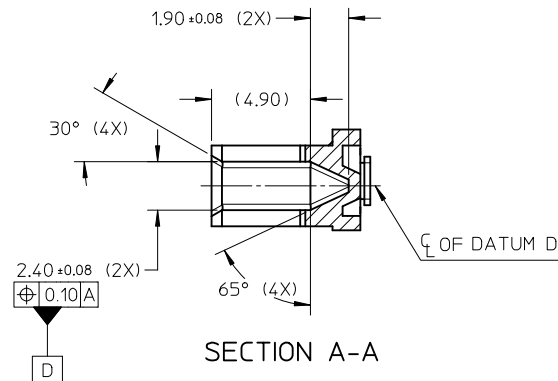
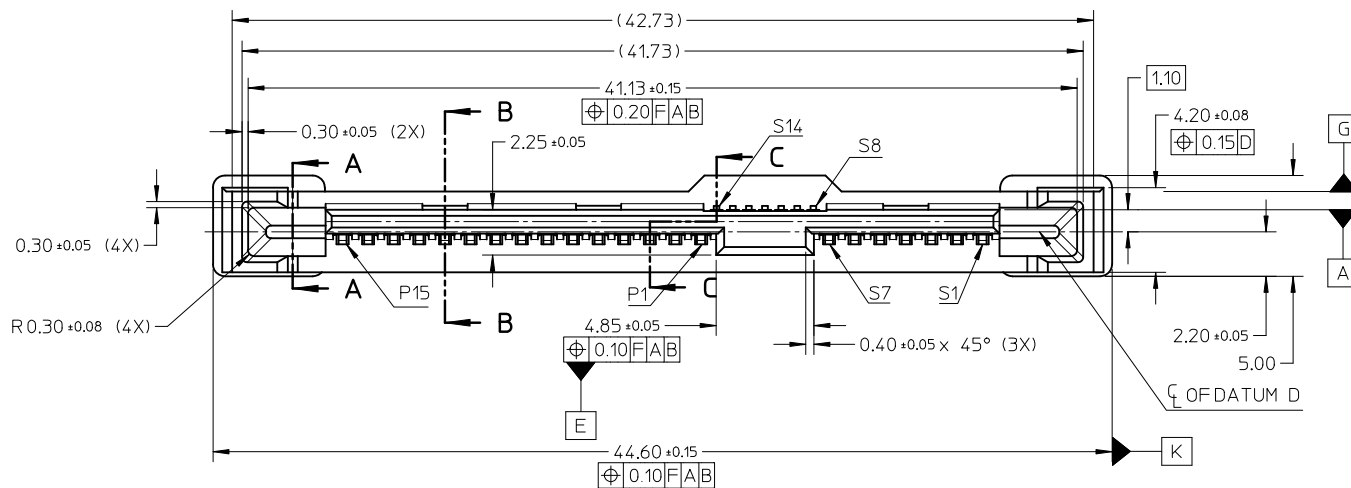
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B

A

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_P=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
CGOH	2007/01/12

CHECKED BY	DATE
CGTAN	2007/02/06

APPROVED BY	DATE
BOKOK	2010/02/02

MATERIAL NO.
78164-1051

SCALE
NTS

DESIGN UNITS
METRIC

THIRD ANGLE PROJECTION

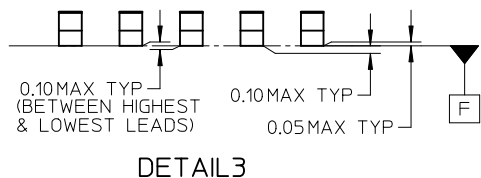
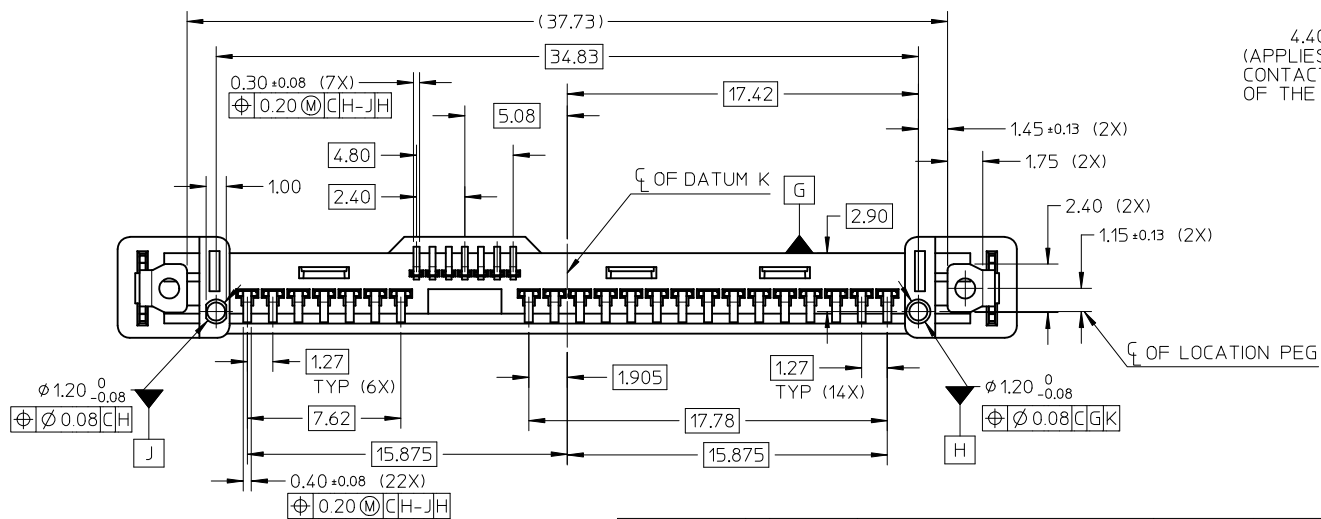
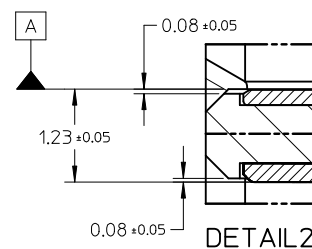
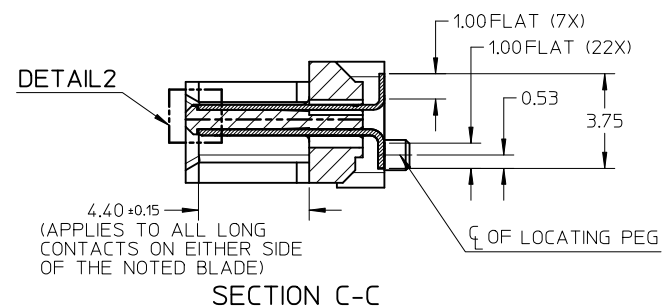
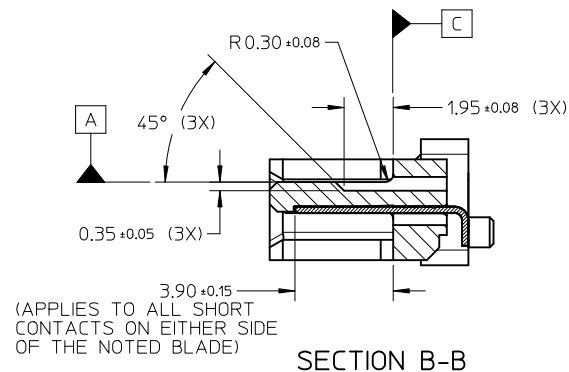
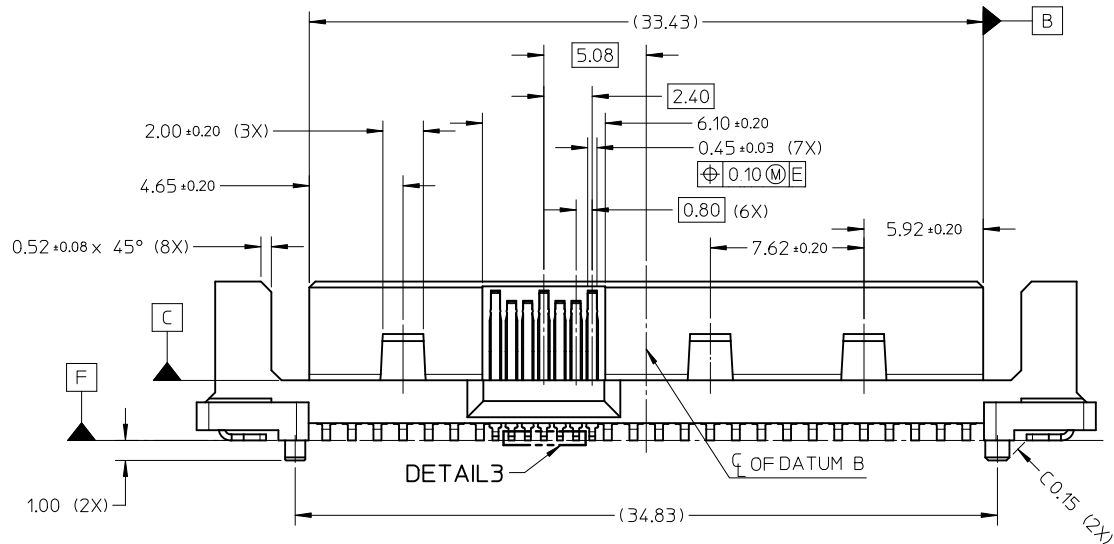
SERIAL ATA SCSI (SAS)
PLUG, VERTICAL MOUNT
SMT

MOLEX INCORPORATED

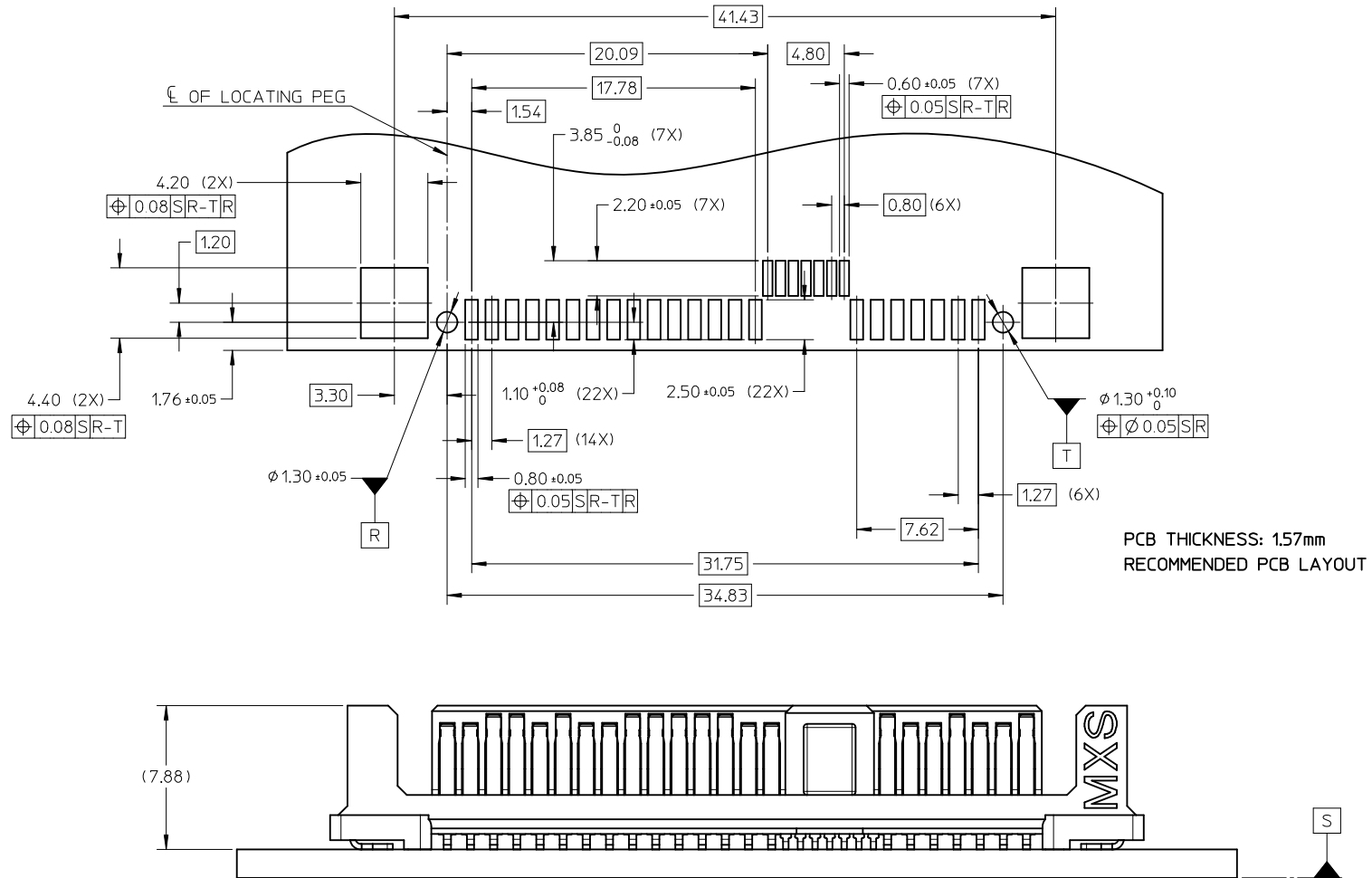
DOCUMENT NO.
SD-78164-100

SHEET NO.
2 OF 5

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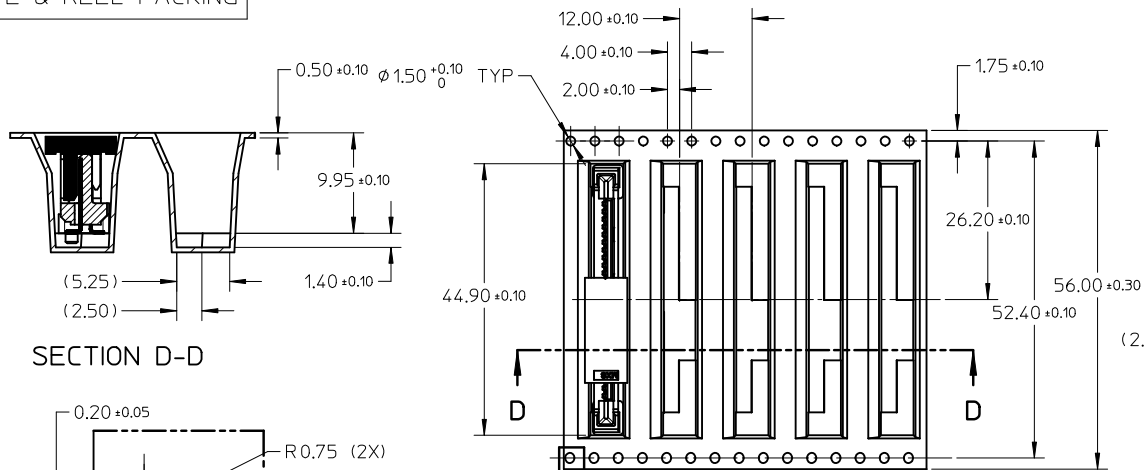


UPDATE VIEWS EC NO: S2010-0638 DRWN:CGOH CHKD:JTAN02 APPR:BOKOK	2010/01/27 2007/02/06 2010/02/02	DESCRIPTION	QUALITY SYMBOLS FA=0 FG=0 FP=0	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE NTS	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION			
					mm	INCH	DRAWN BY CGOH	DATE 2007/01/12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

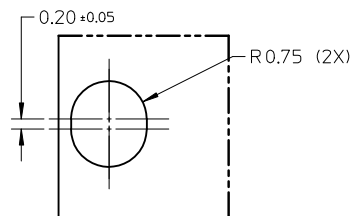


UPDATE VIEWS		QUALITY SYMBOLS	GENERAL TOLERANCES (UNLESS SPECIFIED)	DIMENSION STYLE		SCALE	DESIGN UNITS	THIRD ANGLE PROJECTION
EC NO:	DATE			MM ONLY	INCH			
S2010-0638	2010/01/27	$F_A=0$	4 PLACES	± ---	± ---	CGOH	DATE	TITLE
DRWN:CGOH	2007/02/06	$F_C=0$	3 PLACES	± ---	± ---	CHECKED BY	DATE	SERIAL ATA SCSI (SAS)
CHKD:JTAN02	2007/02/06	$F_P=0$	2 PLACES	± 0.20	± ---	CGTAN	DATE	PLUG, VERTICAL MOUNT
APPR:BOKOK	2010/02/02		1 PLACE	± ---	± ---	APPROVED BY	DATE	SMT
			ANGULAR ± 3 °			BOKOK	2010/02/02	MOLEX INCORPORATED
			DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS			MATERIAL NO.	DOCUMENT NO.	
						78164-1051	SD-78164-100	
						SIZE		SHEET NO.
						A3		4 OF 5

TAPE & REEL PACKING

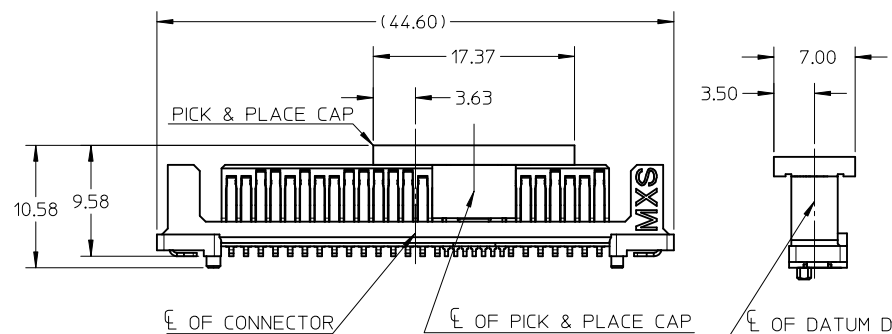
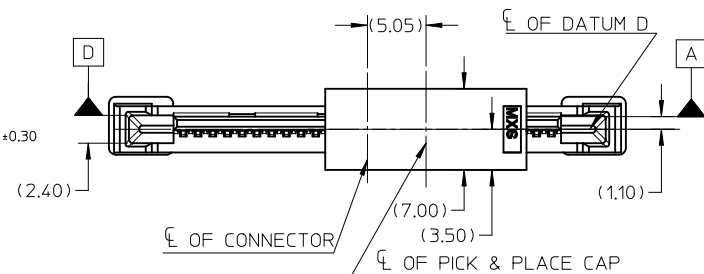
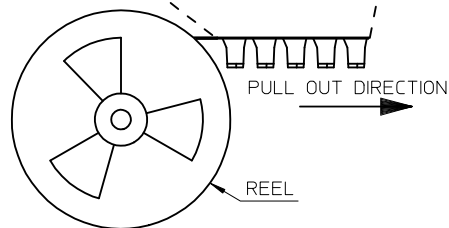


SECTION D-D



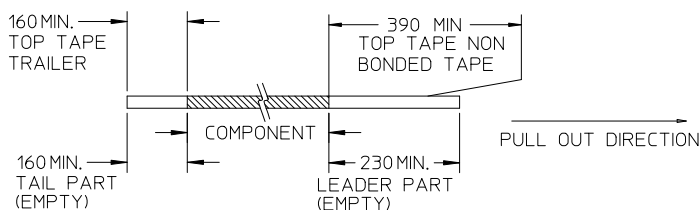
DETAIL 4

DETAIL 4

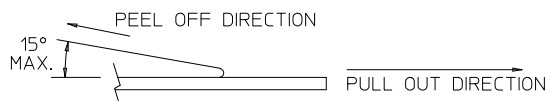


NOTES:

1. LEADER AND TRAILER TAPE



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



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

UPDATE VIEWS		DESCRIPTION	QUALITY SYMBOLS
EC NO:	DATE		
S2010-0638	2010/01/27	DRWN:CGOH	$F_A=0$
CHKD:JTAN02	2007/02/06	CHKD:JTAN02	$F_C=0$
APPR:BOKOK	2010/02/02	APPR:BOKOK	$F_P=0$
A2		REV	

GENERAL TOLERANCES (UNLESS SPECIFIED)	
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
CGOH	2007/01/12
CHECKED BY	DATE
CGTAN	2007/02/06
APPROVED BY	DATE
BOKOK	2010/02/02
MATERIAL NO.	
78164-1051	
SIZE	
A3	

SCALE NTS	DESIGN UNITS METRIC	 THIRD ANGLE PROJECTION	
TITLE			
SERIAL ATA SCSI (SAS) PLUG, VERTICAL MOUNT SMT			
 MOLEX INCORPORATED			
DOCUMENT NO.			SHEET NO.
SD-78164-100			5 OF 5
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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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