

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number:

0783200002

Status:

Active

Overview:

micro_sata

Description:

1.27mm (.050") Pitch High Speed Micro Serial ATA Device Receptacle for 1.8" HDD/SSD, SMT, Right Angle, Top Mount, with Support Rib, Tape on Reel, Lead free

Documents:

3D Model

Drawing (PDF)

Product Specification PS-78320-002 (PDF)

RoHS Certificate of Compliance (PDF)

Agency Certification

CSA

LR19980

UL

E29179

General

Product Family

Series

Application

Comments

Overview

Product Name

PCB Receptacles

78320

Board-to-Board

With central support rib on underside of housing

micro_sata

Micro Serial ATA, Serial ATA

Physical

Circuits (Loaded)

Circuits (maximum)

Circuits Detail

16

16

With optional manufacturing pins (S1 to S7 and P1 to P9)

Color - Resin

Durability (mating cycles max)

Flammability

Glow-Wire Compliant

Guide to Mating Part

Keying to Mating Part

Lock to Mating Part

Material - Metal

Material - Plating Mating

Material - Plating Termination

Material - Resin

Number of Rows

Orientation

PCB Locator

PCB Retention

Packaging Type

Pitch - Mating Interface (in)

Pitch - Mating Interface (mm)

Pitch - Term. Interface (in)

Pitch - Term. Interface (mm)

Plating min: Mating (µin)

Plating min: Mating (µm)

Plating min: Termination (µin)

Plating min: Termination (µm)

Polarized to Mating Part

Polarized to PCB

Stackable

Temperature Range - Operating

Termination Interface: Style

Black

500

94V-0

No

Yes

Yes

Yes

Copper Alloy

Gold

Tin

Nylon

1

Right Angle

Yes

Yes

Embossed Tape on Reel

0.050 In, 0.200 In

1.27 mm, 5.08 mm

0.050 In, 0.200 In

1.27 mm, 5.08 mm

30

0.76

100

2.54

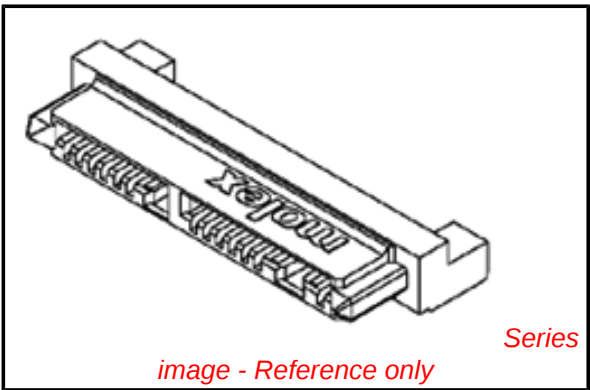
Yes

Yes

No

-40°C to +105°C

Surface Mount



EU RoHS

ELV and RoHS Compliant

REACH SVHC

Not Reviewed

Halogen-Free

Status

Not Halogen-Free

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

78320Series

Mates With

78103 , 78283 and 78285 Micro SATA Device Plugs

Electrical

Current - Maximum per Contact	1.5A
Grounding to PCB	Yes
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-78320-002
Sales Drawing	SD-78320-002

This document was generated on 05/21/2010

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F

E

D

C

B

A

F

E

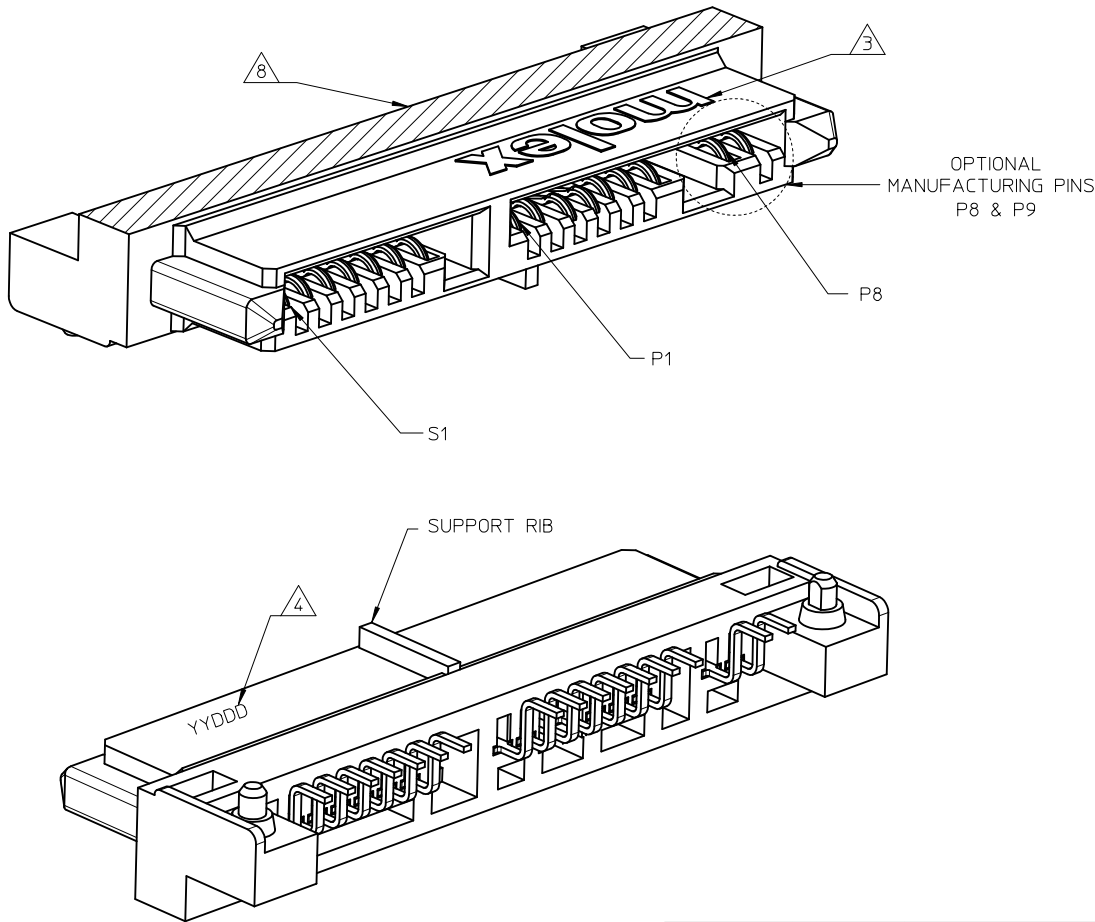
D

C

B

A

10	9	8	7	6	5	4	3	2	1
					PART NUMBER	TOTAL PINS	DESCRIPTION		
					78320-0002	16	WITH OPTIONAL MANUFACTURING PINS (S1 TO S7 & P1 TO P9)		
					78320-1002	14	WITHOUT OPTIONAL MANUFACTURING PINS (S1 TO S7 & P1 TO P7)		



- NOTES:
- 1. MATERIAL : NYLON (PA) 9T, GLASS FILLED, UL 94V-0, BLACK
TERMINAL : COPPER ALLOY
 - 2. PLATING :
TERMINAL : 0.76μm MIN. SELECTIVE GOLD OVER
1.27μm MIN. NICKEL UNDERPLATE
2.54μm MIN. TIN OVER
1.27μm MIN. NICKEL UNDERPLATE
 - 3. MOLEX LOGO LOCATED APPROXIMATELY AS SHOWN
 - 4. DATE CODE LOCATED APPROXIMATELY AS SHOWN
 - 5. PACKAGING : TAPE AND REEL
 - 6. THIS PRODUCT IS COMPLIANT TO RoHS DIRECTIVE WITH THE FOLLOWING BANNED SUBSTANCES - LEAD, MERCURY, CADMIUM, HEXAVALENT CHROMIUM, POLYBROMINATED BIPHENYLS AND POLYBROMINATED DIPHENYLS ETHERS.
 - 7. NON FUNCTIONAL CORING MAY VARY.
 - 8. PROPOSED PICK & PLACE SURFACE.
 - 9. PRODUCT SPECIFICATION: PS-78320-002

9

8

7

6

5

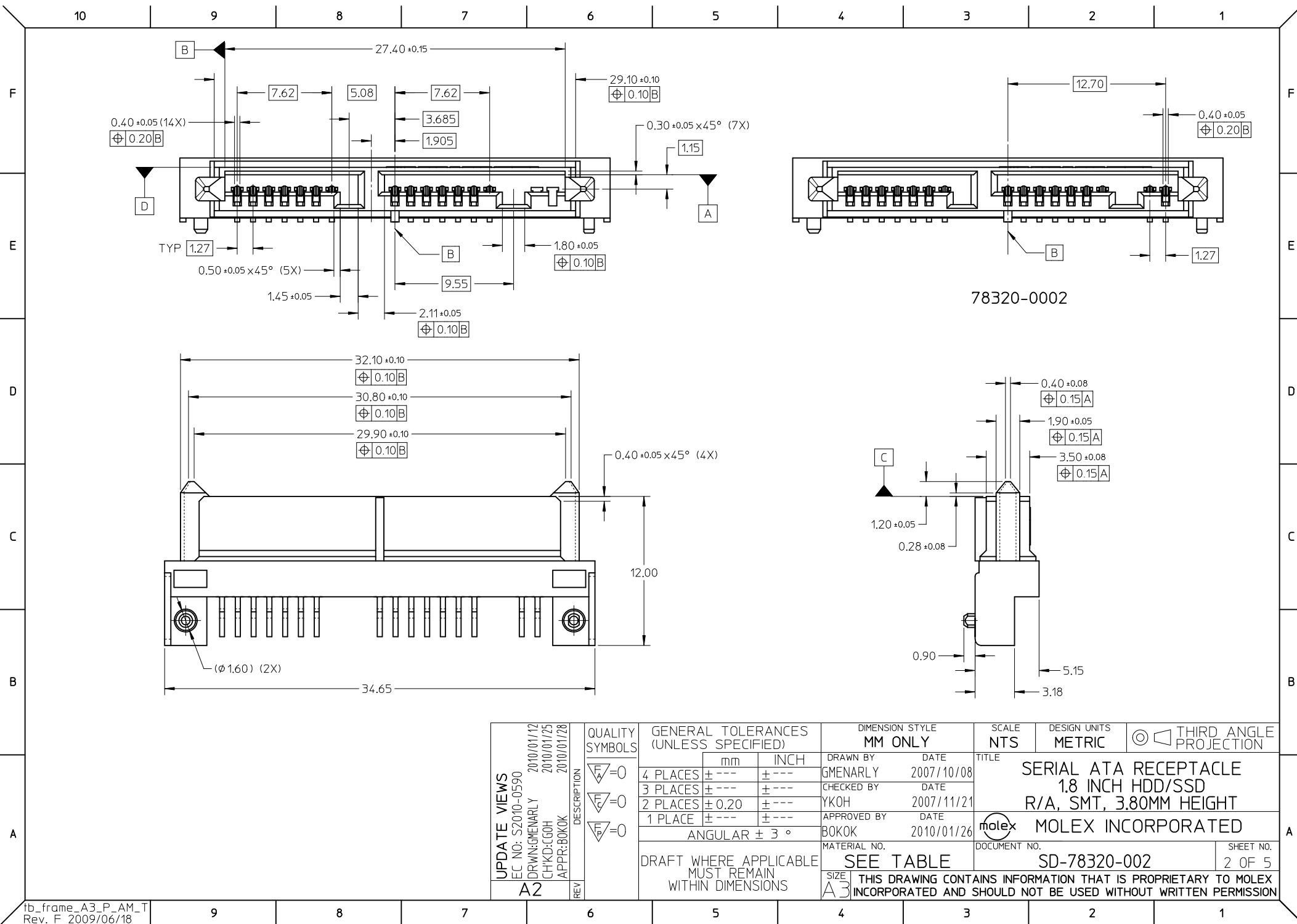
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3

2

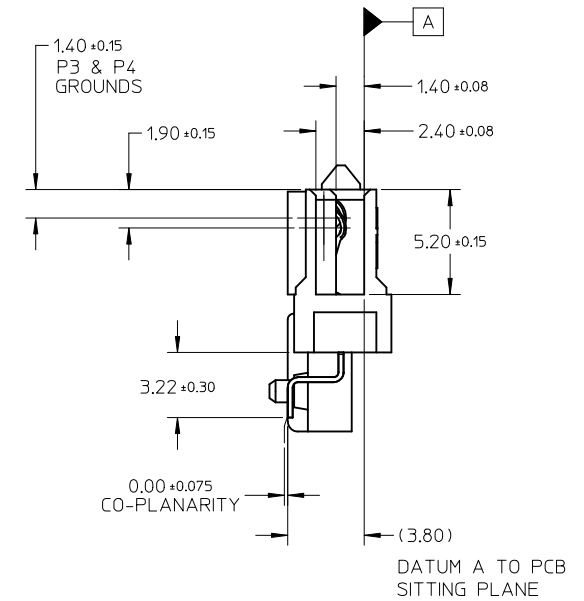
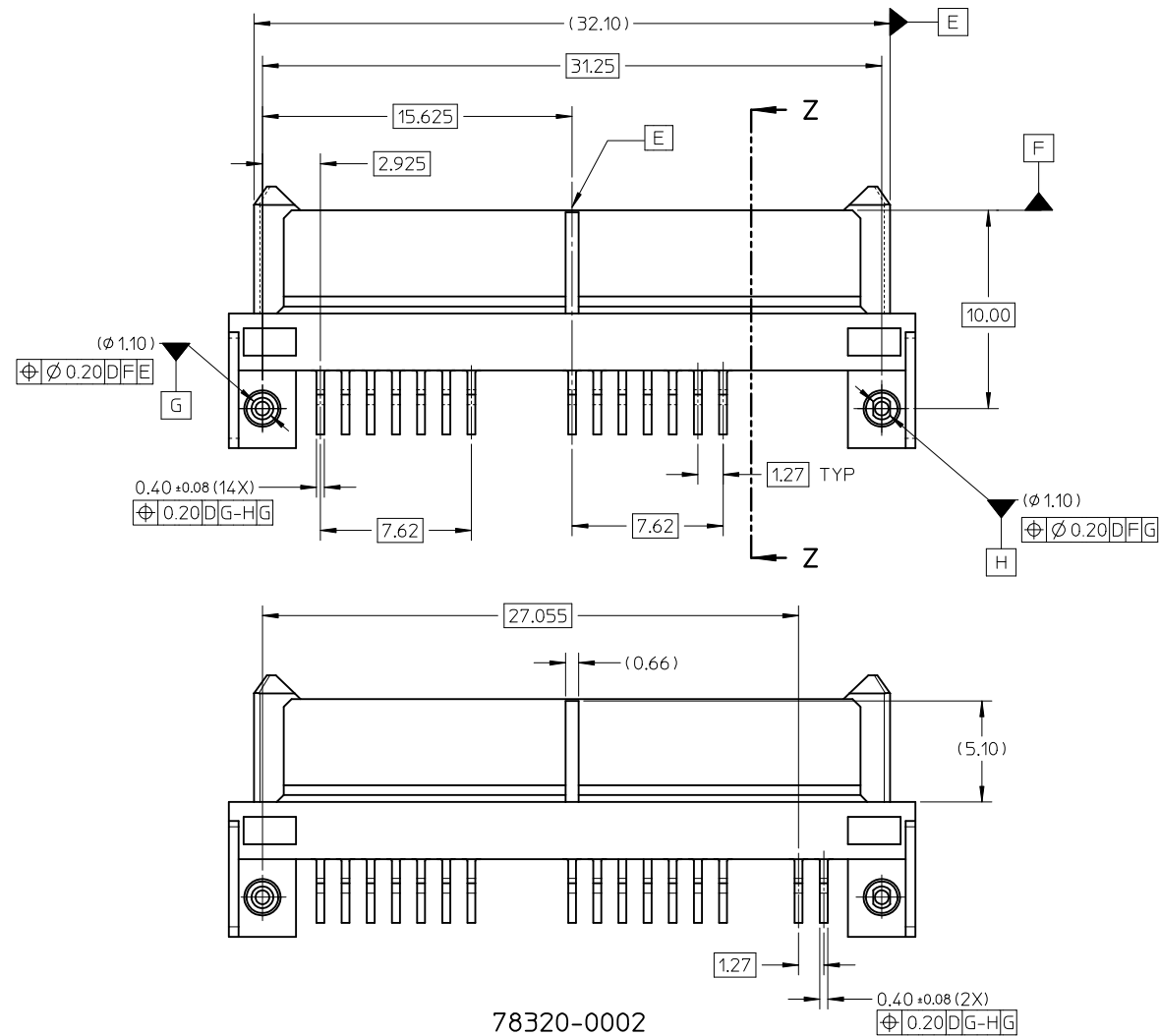
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UPDATE VIEWS EC NO: S2010-0590 DRW:GMENARLY CHKD:CGOH APPR:BOKOK A2	2010/01/12 2010/01/25 2010/01/28	DESCRIPTION REV	QUALITY SYMBOLS F _A =0 F _G =0 F _P =0	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE NTS	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION				
					mm	INCH	DRAWN BY GMENARLY	DATE 2007/10/08	TITLE SERIAL ATA RECEPTACLE 1.8 INCH HDD/SSD R/A, SMT, 3.80MM HEIGHT MOLEX INCORPORATED					
				4 PLACES	± ---	± ---	CHECKED BY YKOH	DATE 2007/11/21						
				3 PLACES	± ---	± ---	APPROVED BY BOKOK	DATE 2010/01/26						
				2 PLACES	± 0.20	± ---	ANGULAR ± 3 °			MOLEX				
				1 PLACE	± ---	± ---								
				DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS			MATERIAL NO. SEE TABLE		DOCUMENT NO. SD-78320-002		SHEET NO. 1 OF 5			
							SIZE A3		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION					



UPDATE VIEWS EC NO: S2010-0590 DRAWN:GMENARLY CHKD:CGOH APPR:BOKOK		2010/01/12 2010/01/25 2010/01/28	DESCRIPTION REV	QUALITY SYMBOLS F_A=0 F_C=0 F_P=0	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE NTS	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION	SERIAL ATA RECEPTACLE 1.8 INCH HDD/SSD R/A, SMT, 3.80MM HEIGHT MOLEX INCORPORATED	SHEET NO. 2 OF 5		
					DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS			DRAWN BY GMENARLY		DATE 2007/10/08				TITLE MOLEX	
								CHECKED BY YKOH		DATE 2007/11/21					
								APPROVED BY BOKOK		DATE 2010/01/26					
A2					ANGULAR ± 3 °		MATERIAL NO.		DOCUMENT NO.						

10 9 8 7 6 5 4 3 2 1



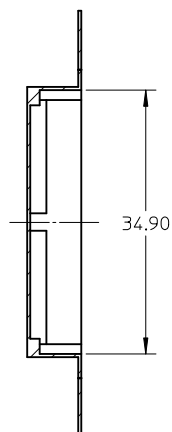
SECTION Z-Z

78320-0002

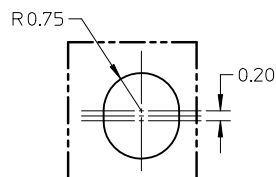
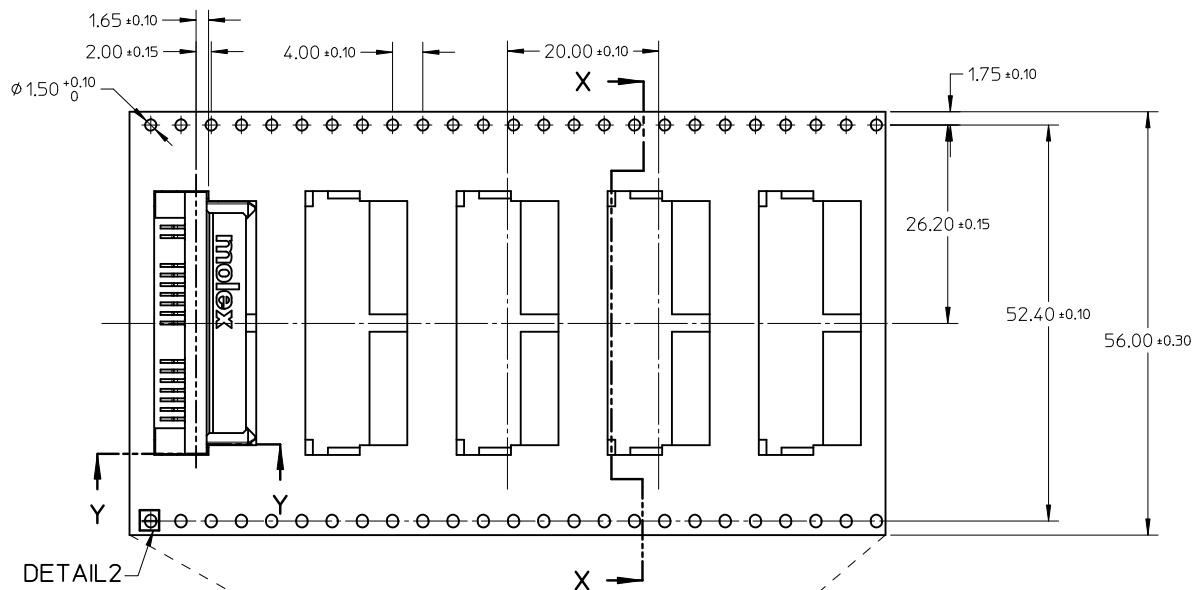
UPDATE VIEWS EC NO: S2010-0590 DRWN:GMENARLY CHKD:CGOH APPR:BOKOK	DESCRIPTION	QUALITY SYMBOLS F_A=0 F_G=0 F_P=0	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE NTS	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION			
				mm	INCH	DRAWN BY GMENARLY	DATE 2007/10/08	TITLE SERIAL ATA RECEPTACLE 1.8 INCH HDD/SSD R/A, SMT, 3.80MM HEIGHT MOLEX INCORPORATED				
			4 PLACES	±---	±---	CHECKED BY YKOH	DATE 2007/11/21					
			3 PLACES	±---	±---							
			2 PLACES	± 0.20	±---	APPROVED BY BOKOK		DATE 2010/01/26				
	1 PLACE	±---	±---	ANGULAR ± 3 °		MATERIAL NO.		DOCUMENT NO.		SHEET NO. 3 OF 5		
	A2	REV		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SEE TABLE		SD-78320-002				
					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

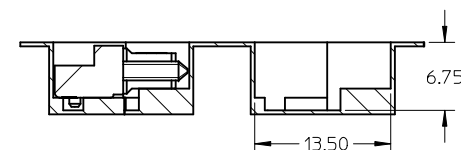
PACKAGING INFORMATION



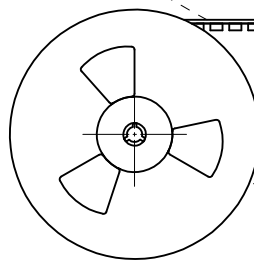
SECTION X-X



DETAIL2



PARTIAL1
OF SECTION Y-Y

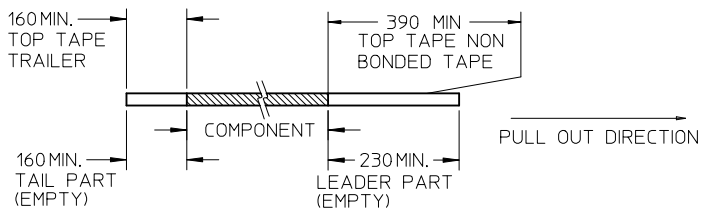


PULL OUT DIRECTION

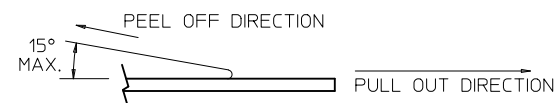
REEL

NOTES:

1. LEADER AND TRAILER TAPE



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



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

4. TAPE AND REEL QUANTITY : SPQ=500PCS/REEL, MDQ=100PCS/CARTON : QTY/REEL=500PCS, REELS/CARTON=2

5. THE TAPE IS TREATED FOR ANTI-STATIC.

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			DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SEE TABLE		SD-78320-002		5 OF 5			
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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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