

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number: [0784920001](#)
Status: **Active**
Overview: [micro_sata](#)
Description: 1.27mm (.050") Pitch Micro Serial ATA Device Receptacle for 1.8" SSD/HDD, SMT, Vertical, with Pegs and Kapton Tape, 16 Circuits, EmbossedTape on Reel, Lead free

Documents:

[Drawing \(PDF\)](#) [RoHS Certificate of Compliance \(PDF\)](#)
[Product Specification PS-78492-001 \(PDF\)](#)

Agency Certification

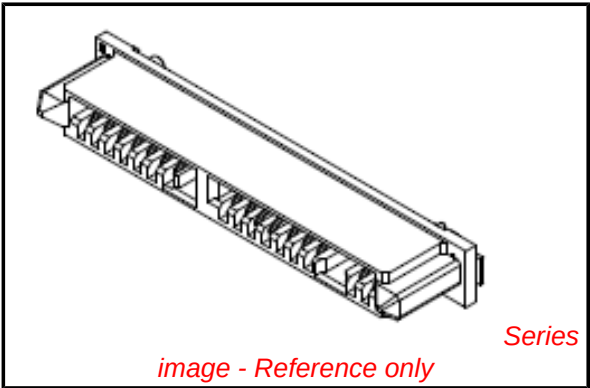
CSA LR19980
UL E29179

General

Product Family PCB Receptacles
Series [78492](#)
Application Board-to-Board
Comments Rimmed connector base; connector width: 4.38mm (.163")
Overview [micro_sata](#)
Product Name Micro Serial ATA, Serial ATA

Physical

Circuits (Loaded) 16
Circuits (maximum) 16
Color - Resin Black
Durability (mating cycles max) 500
Flammability 94V-0
Glow-Wire Compliant No
Guide to Mating Part Yes
Keying to Mating Part Yes
Lock to Mating Part No
Material - Metal Copper Alloy
Material - Plating Mating Gold
Material - Plating Termination Tin
Material - Resin High Temperature Thermoplastic
Number of Rows 1
Orientation Vertical
PCB Locator Yes
PCB Retention Yes
Packaging Type Embossed Tape on Reel
Pitch - Mating Interface (in) 0.050 In, 0.052 In
Pitch - Mating Interface (mm) 1.27 mm, 1.32 mm
Pitch - Term. Interface (in) 0.050 In, 0.052 In
Pitch - Term. Interface (mm) 1.27 mm, 1.32 mm
Plating min: Mating (µin) 5
Plating min: Mating (µm) 0.127
Plating min: Termination (µin) 100
Plating min: Termination (µm) 2.54
Polarized to Mating Part Yes
Polarized to PCB Yes
Stackable No
Temperature Range - Operating 0°C to +55°C
Termination Interface: Style Surface Mount



EU RoHS
ELV and RoHS
Compliant
REACH SVHC
Contains SVHC: No
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.

Search Parts in this Series
[78492Series](#)

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)	3
Lead-free Process Capability	Reflow Capable (SMT only)
Max. Cycles at Max. Process Temperature	1
Process Temperature max. C	260

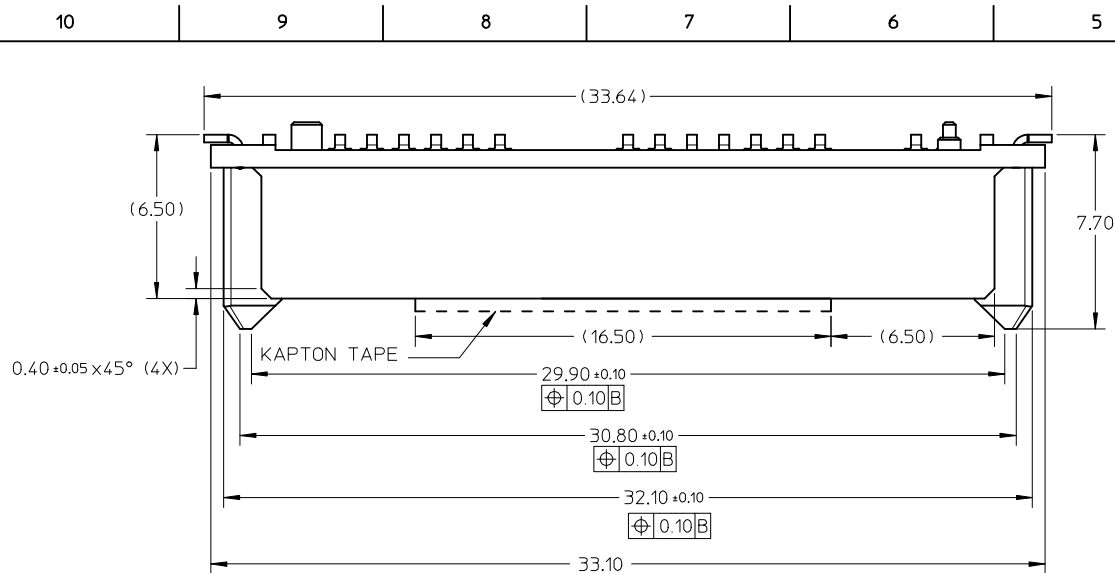
Material Info

Reference - Drawing Numbers

Packaging Specification	PK-78492-001
Product Specification	PS-78492-001
Sales Drawing	SD-78492-001

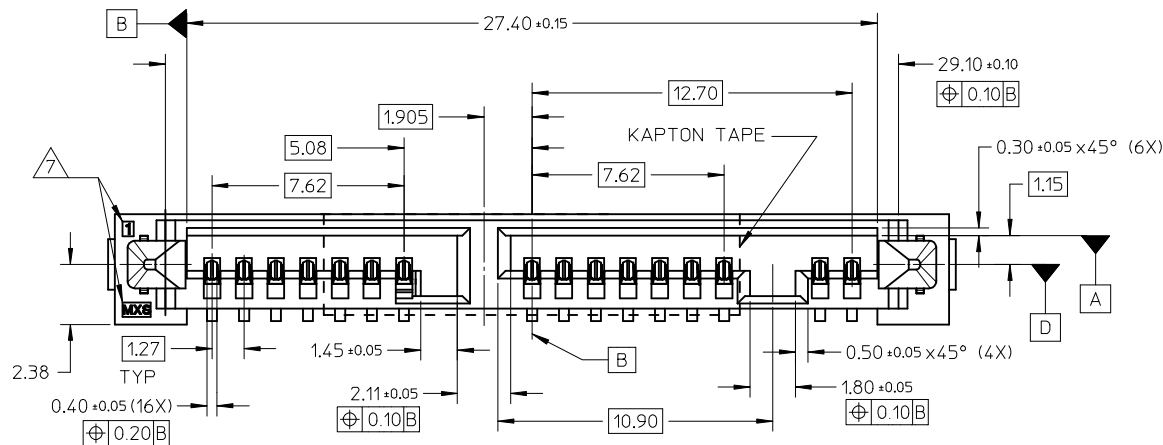
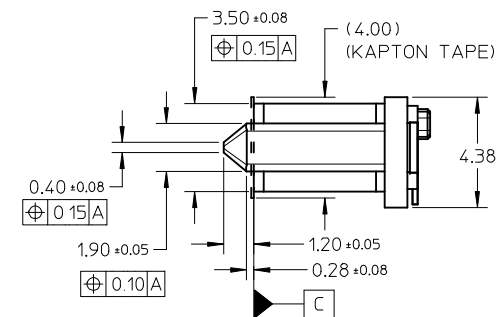
This document was generated on 05/21/2010

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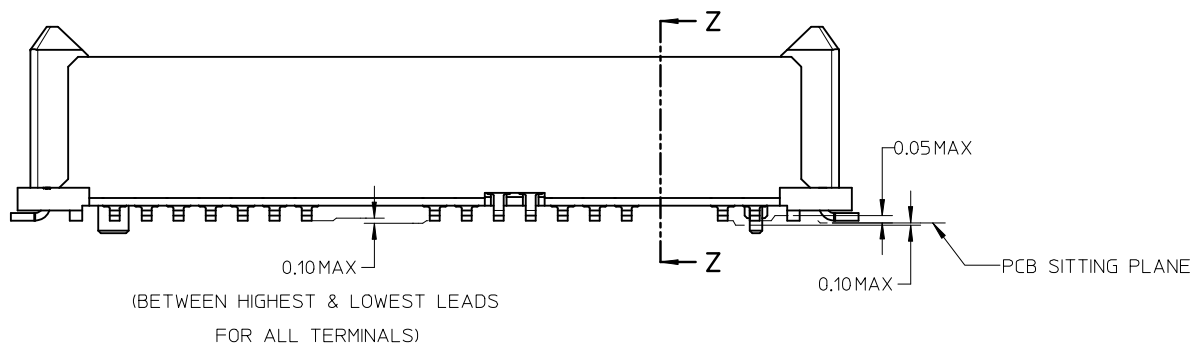
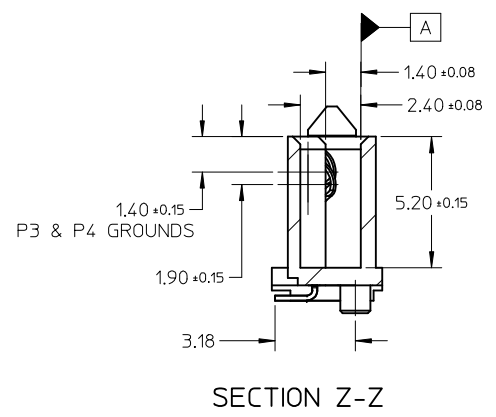
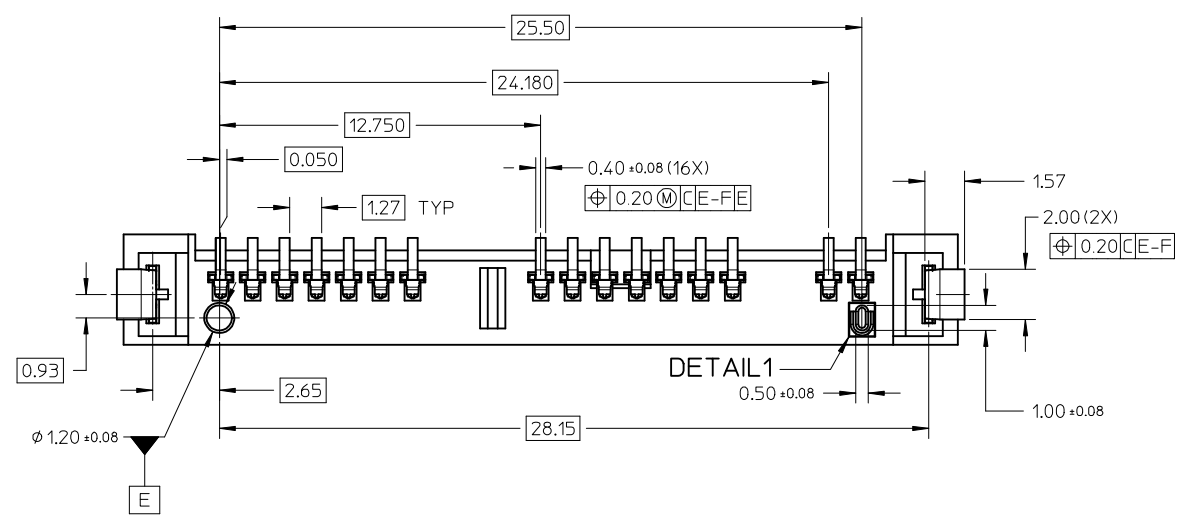
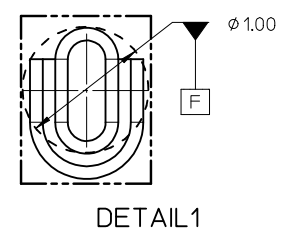


NOTES:

1. MATERIAL : LCP, GLASS FILLED, UL 94V-0, BLACK
TERMINAL/SOLDER TAB : COPPER ALLOY
2. FINISHES: SEE TABLE
3. PRODUCT SPECIFICATION : SEE TABLE
4. PACKAGING SPECIFICATION : TAPE AND REEL
5. MATES WITH : MOLEX MICRO SATA PLUG
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. MOLEX LOGO AND CAVITY NUMBER LOCATED APPROXIMATELY AS SHOWN
8. NON FUNCTIONAL CORING MAY VARY

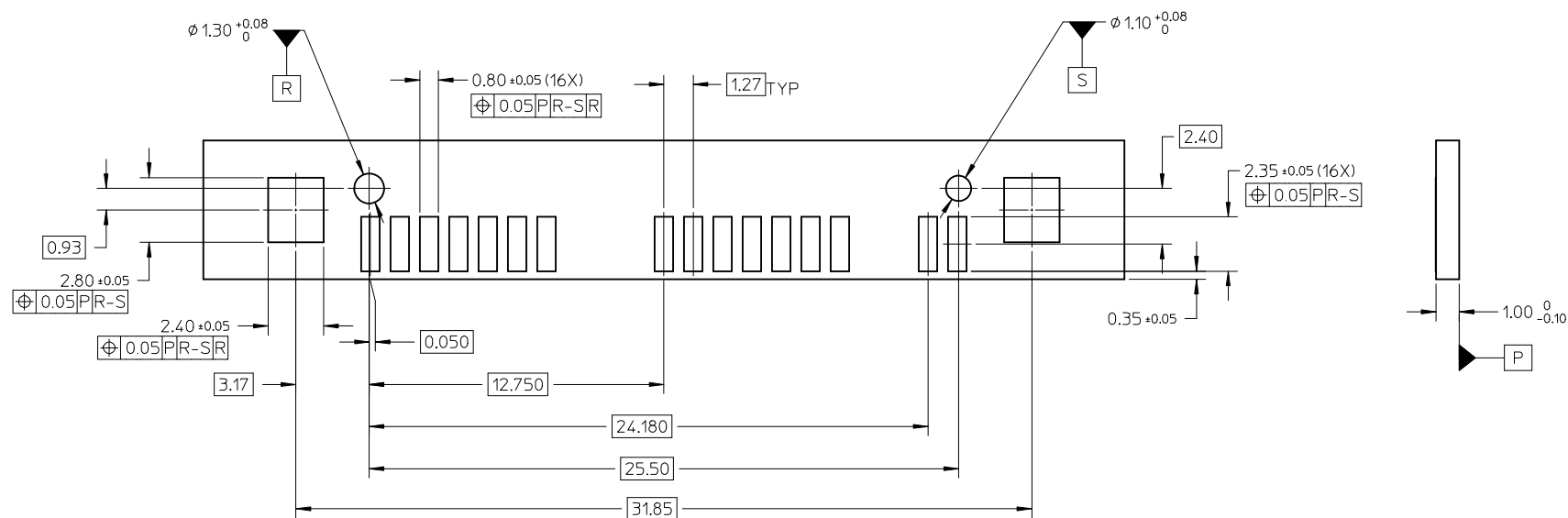


SEE SHEET 4 EC NO: S2009-0967 DRAWN: GMENARLY CHKD: CGOH APPR: BOKOK	QUALITY SYMBOLS ▽=0 C=0	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE NTS	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION	
		DESCRIPTION REV	DRAWN BY GMENARLY CHECKED BY CGOH APPROVED BY BOKOK MATERIAL NO. SEE TABLE	DATE 2009/03/17 2009/05/20 2009/05/20	TITLE MICRO SATA RECEPTACLE VERTICAL SMT 1.8 INCH SSD/HDD MOLEX INCORPORATED	DOCUMENT NO. SD-78492-001	SHEET NO. 1 OF 4		



SEE SHEET 4 EC NO: S2009-0967 DRWN:GMENARLY CHKD:CGOH APPR:BOKOK	DESCRIPTION 2009/08/04 2009/08/04 2009/08/05	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 GMENARLY	DATE 2009/03/17	TITLE MICRO SATA RECEPTACLE VERTICAL SMT 1.8 INCH SSD/HDD						
				4 PLACES	± ---	± ---	CHECKED BY CGOH	DATE 2009/05/20							
				3 PLACES	± ---	± ---	APPROVED BY BOKOK		DATE 2009/05/20	molex MOLEX INCORPORATED					
				2 PLACES	± 0.20	± ---									
				1 PLACE	± ---	± ---	MATERIAL NO.		DOCUMENT NO.		SHEET NO.				
				DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS			SEE TABLE		SD-78492-001				2 OF 4		
							SIZE A3	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION							

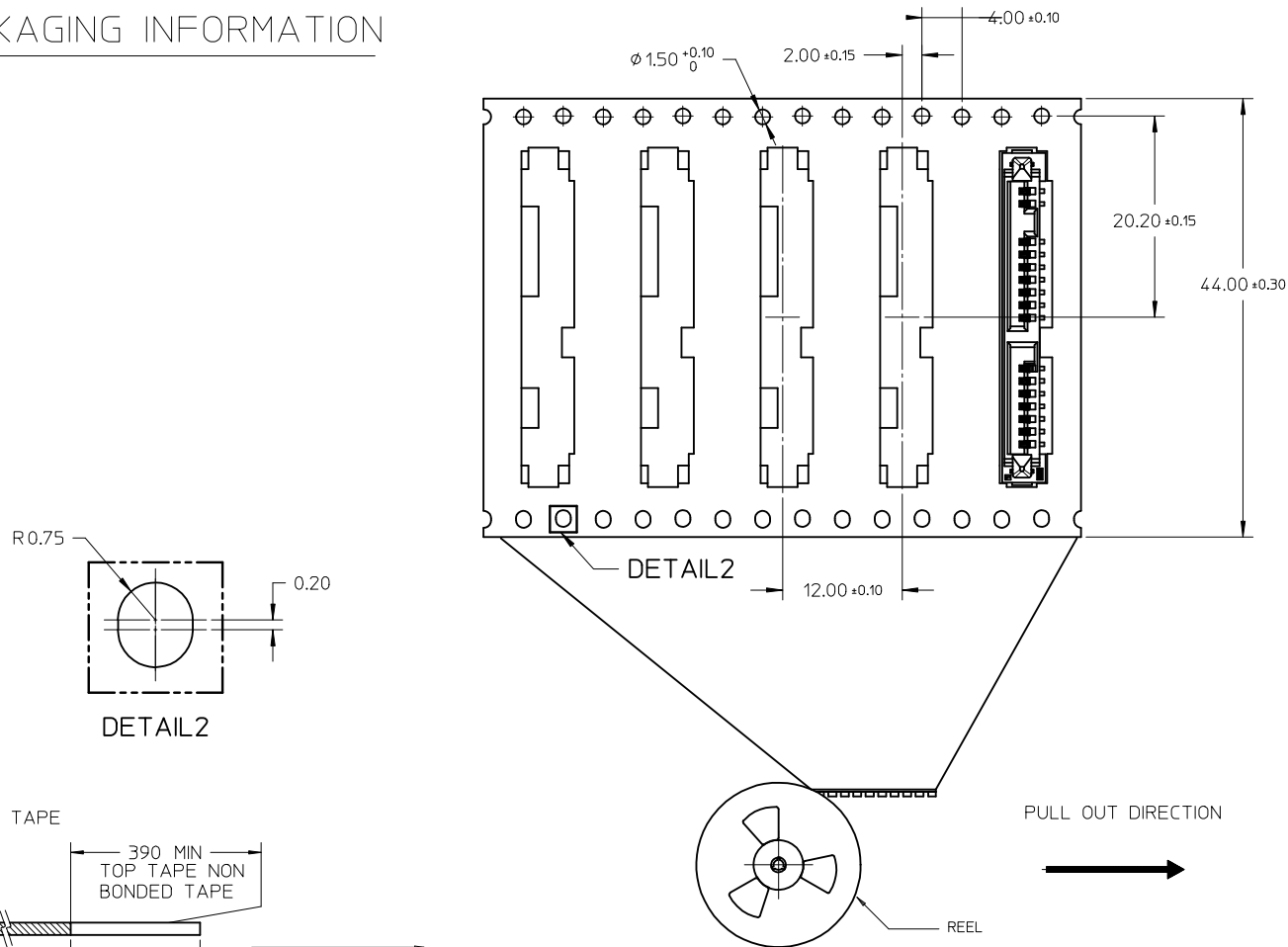
	10	9	8	7	6	5	4	3	2	1	
F	PART NUMBER		FINISHES					PRODUCT SPECIFICATIONS			
	78492-0001		TERMINAL CONTACT :0.127μm MIN. SELECTIVE GOLD OVER 1.27μm MIN. NICKEL UNDERPLATE TERMINAL SOLDER TAIL :2.54μm MIN. TIN OVER 1.27μm MIN. NICKEL UNDERPLATE SOLDER TAB : 2.54μm MIN. TIN OVER 1.91μm MIN. NICKEL UNDERPLATE					PS-78492-001			
	78492-0002		TERMINAL CONTACT :0.38μm MIN. SELECTIVE GOLD OVER 1.27μm MIN. NICKEL UNDERPLATE TERMINAL SOLDER TAIL :2.54μm MIN. TIN OVER 1.27μm MIN. NICKEL UNDERPLATE SOLDER TAB : 2.54μm MIN. TIN OVER 1.91μm MIN. NICKEL UNDERPLATE					PS-78492-002			
	78492-0003		TERMINAL CONTACT :0.76μm MIN. SELECTIVE GOLD OVER 1.27μm MIN. NICKEL UNDERPLATE TERMINAL SOLDER TAIL :2.54μm MIN. TIN OVER 1.27μm MIN. NICKEL UNDERPLATE SOLDER TAB : 2.54μm MIN. TIN OVER 1.91μm MIN. NICKEL UNDERPLATE								



RECOMMENDED PCB LAYOUT

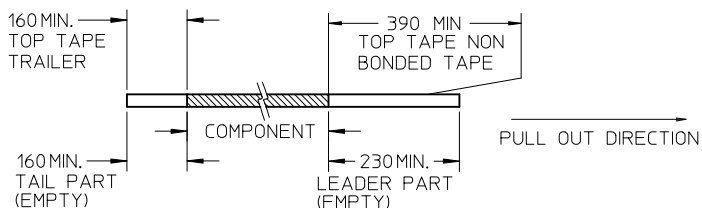
SEE SHEET 4 EC NO: S2009-0967 DRAWN:GMENARLY CHKD:CGOH APPR:BOKOK A1	DESCRIPTION REV	QUALITY SYMBOLS <div>▽=0</div> <div>▽=0</div>	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE NTS	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION			
					DRAWN BY GMENARLY	DATE 2009/03/17	TITLE MICRO SATA RECEPTACLE VERTICAL SMT 1.8 INCH SSD/HDD					
					CHECKED BY CGOH	DATE 2009/05/20						
					APPROVED BY BOKOK	DATE 2009/05/20						
					ANGULAR ± 3 °		MATERIAL NO.		DOCUMENT NO.		SHEET NO.	
					DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SEE TABLE		SD-78492-001		3 OF 4	
							SIZE A3	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION				

PACKAGING INFORMATION

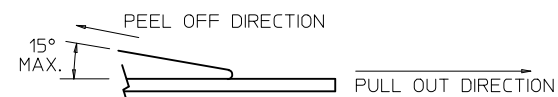


NOTES:

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 : 550 PCS/ REEL.

5. THE TAPE IS TREATED FOR ANTI-STATIC.

REV. CARRIER TAPE EC NO: S2009-0967 DRWN:GMENARLY CHKD:CGOH APPR:BOKOK	DESCRIPTION REV	QUALITY SYMBOLS <div>▽=0</div> <div>◇=0</div>	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE NTS	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION		
			4 PLACES 3 PLACES 2 PLACES 1 PLACE	mm	INCH	DRAWN BY GMENARLY	DATE 2009/03/17	TITLE MICRO SATA RECEPTACLE VERTICAL SMT 1.8 INCH SSD/HDD	MOLEX MOLEX INCORPORATED	DOCUMENT NO. SD-78492-001	SHEET NO. 4 OF 4
				± ---	± ---	CHECKED BY CGOH	DATE 2009/05/20				
				± ---	± ---	APPROVED BY BOKOK	DATE 2009/05/20				
				± 0.20	± ---	MATERIAL NO.					
			ANGULAR ± 3 °		SEE TABLE						
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							