

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

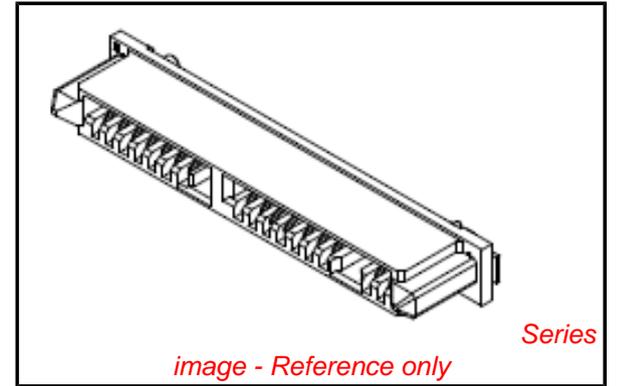
CSA LR19980
 UL E29179

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

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

[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

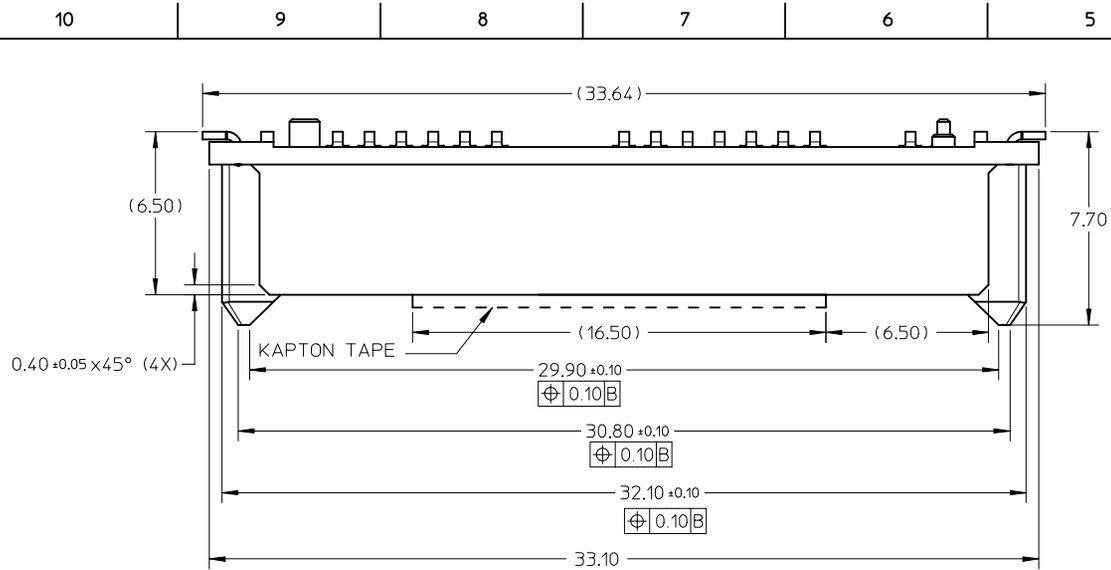
Duration at Max. Process Temperature (seconds)	3
Lead-free Process Capability	Reflow Capable (SMT only)
Max. Cycles at Max. Process Temperature	1
Process Temperature max. C	260

Material Info**Reference - Drawing Numbers**

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

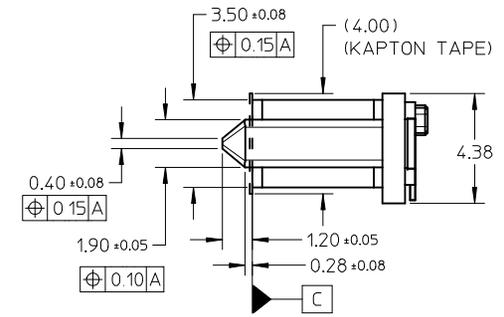
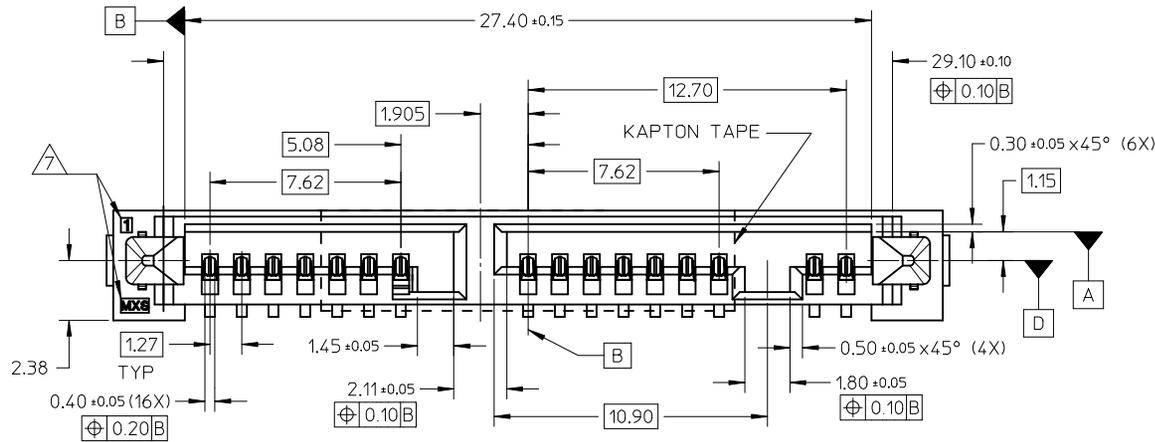
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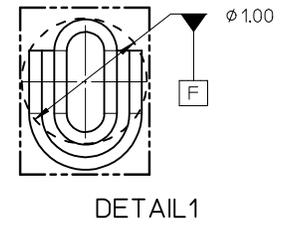
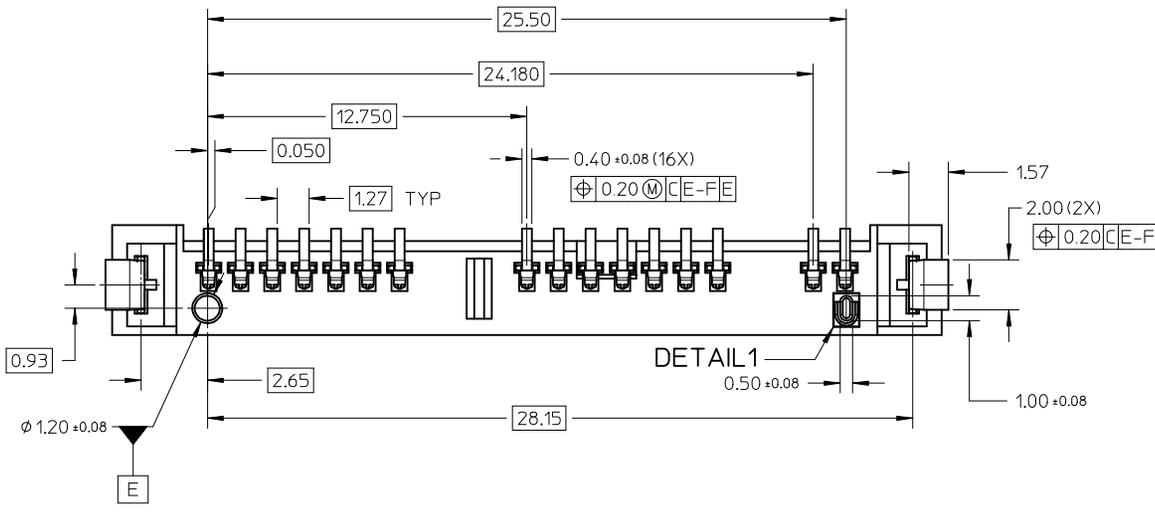
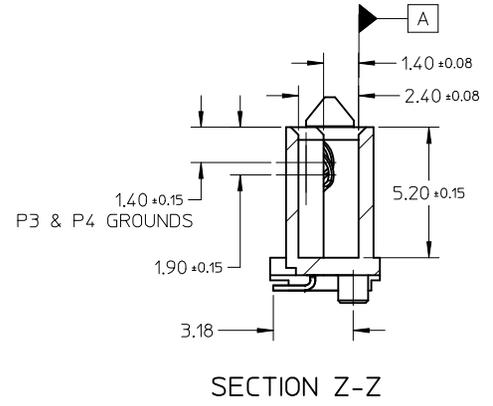
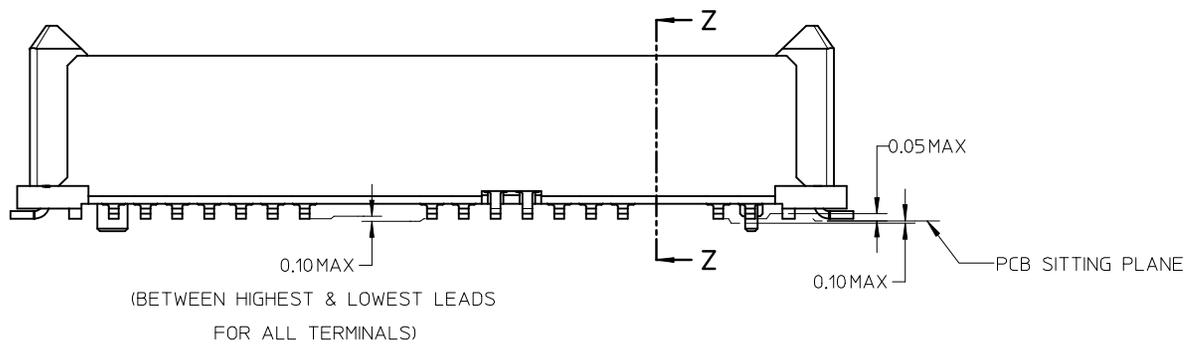


NOTES:

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

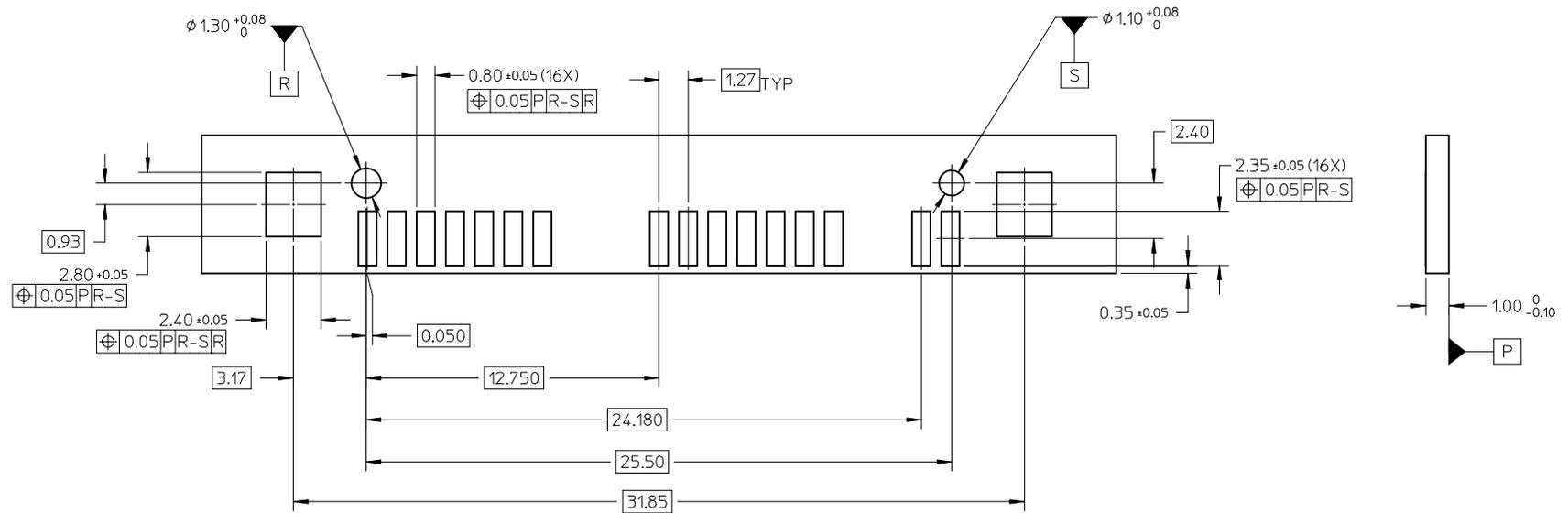


SEE SHEET 4 EC NO: S2009-0967 DRAWN:GMENARLY 2009/08/04 CHKD:CGOH 2009/08/04 APPR:BOKOK 2009/08/05	QUALITY SYMBOLS ▽=0 ◻=0	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE	SCALE	DESIGN UNITS	THIRD ANGLE PROJECTION	
		mm	INCH	MM ONLY	NTS	METRIC		
		4 PLACES	± ---	± ---	DRAWN BY	DATE	TITLE	
		3 PLACES	± ---	± ---	GMENARLY	2009/03/17	MICRO SATA RECEPTACLE VERTICAL SMT 1.8 INCH SSD/HDD	
			2 PLACES	± 0.20	± ---	CHECKED BY	DATE	
			1 PLACE	± ---	± ---	CGOH	2009/05/20	
			ANGULAR ± 3 °		APPROVED BY	DATE		
			DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		BOKOK	2009/05/20		
A1	REV	DESCRIPTION	SIZE	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION				
			A3	SEE TABLE	MATERIAL NO.	DOCUMENT NO.	SHEET NO.	
						moLEX MOLEX INCORPORATED	1 OF 4	
						SD-78492-001		



SEE SHEET 4 EC NO: S2009-0967 DRWN:GMENARLY CHKD:CGOH APPR:BOKOK	2009/08/04 2009/08/04 2009/08/05	QUALITY SYMBOLS ▽=0 ◻=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 GMENARLY CHECKED BY CGOH APPROVED BY BOKOK MATERIAL NO. SEE TABLE	DATE 2009/03/17 DATE 2009/05/20 DATE 2009/05/20	SCALE NTS DESIGN UNITS METRIC THIRD ANGLE PROJECTION	TITLE MICRO SATA RECEPTACLE VERTICAL SMT 1.8 INCH SSD/HDD MOLEX INCORPORATED
	A1	DESCRIPTION	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	DOCUMENT NO. SD-78492-001 SHEET NO. 2 OF 4		

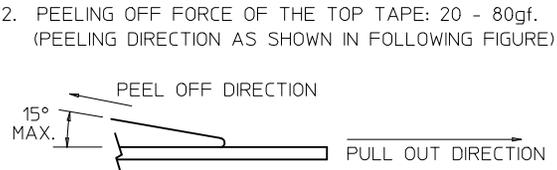
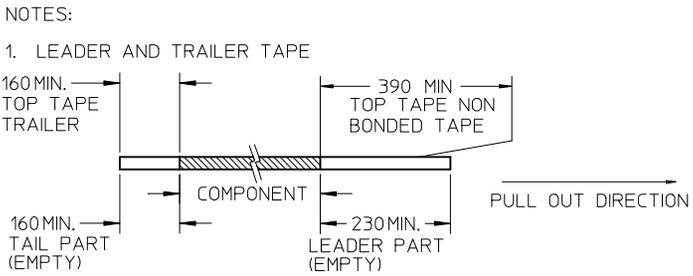
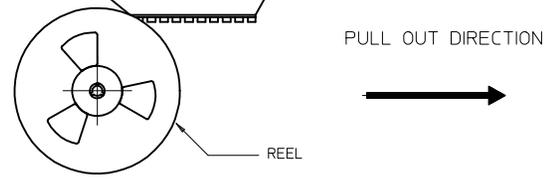
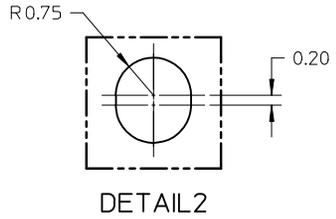
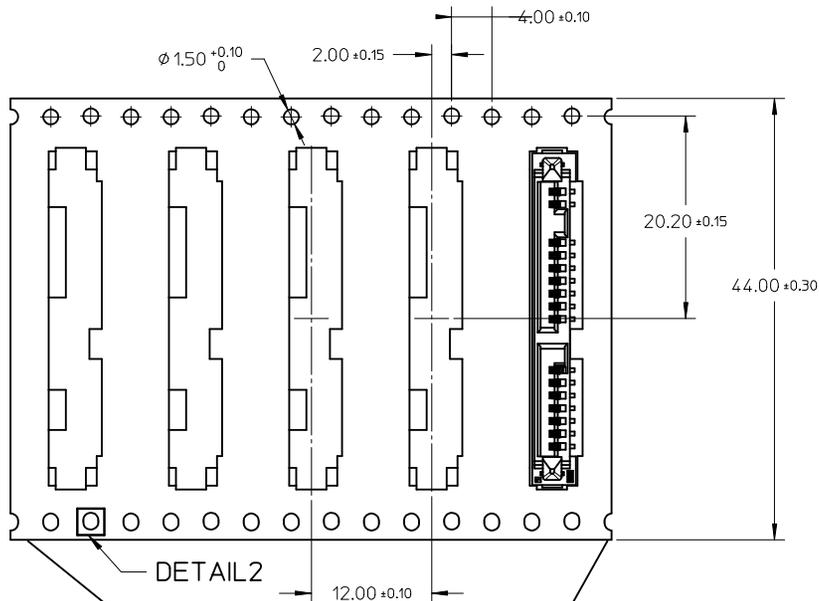
10	9	8	7	6	5	4	3	2	1
PART NUMBER		FINISHES				PRODUCT SPECIFICATIONS			
78492-0001		TERMINAL CONTACT :0.127µm MIN. SELECTIVE GOLD OVER 1.27µm MIN. NICKEL UNDERPLATE TERMINAL SOLDER TAIL :2.54µm MIN. TIN OVER 1.27µm MIN. NICKEL UNDERPLATE SOLDER TAB : 2.54µm MIN. TIN OVER 1.91µm MIN. NICKEL UNDERPLATE				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 DRWN:GMENARLY 2009/08/04 CHKD:CGOH 2009/08/04 APPR:BOKOK 2009/08/05	QUALITY SYMBOLS	GENERAL TOLERANCES (UNLESS SPECIFIED)	DIMENSION STYLE	SCALE	DESIGN UNITS	THIRD ANGLE PROJECTION	
	▽=0 ◻=0	mm INCH	MM ONLY	NTS	METRIC		
		4 PLACES ± --- ± --- 3 PLACES ± --- ± --- 2 PLACES ± 0.20 ± --- 1 PLACE ± --- ± ---	DRAWN BY DATE GMENARLY 2009/03/17	TITLE MICRO SATA RECEPTACLE VERTICAL SMT 1.8 INCH SSD/HDD			
		ANGULAR ± 3 °	CHECKED BY DATE CGOH 2009/05/20	MOLEX INCORPORATED			
	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS	MATERIAL NO.	APPROVED BY DATE BOKOK 2009/05/20	DOCUMENT NO. SD-78492-001		SHEET NO. 3 OF 4	
A1	REV	SIZE A3	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION				

PACKAGING INFORMATION



- 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 DRWNG:GMENARLY 2009/08/04 CHKD:CGOH 2009/08/04 APPR:BOKOK 2009/08/05	QUALITY SYMBOLS ▽=0 ◻=0	GENERAL TOLERANCES (UNLESS SPECIFIED) mm INCH	DIMENSION STYLE MM ONLY	SCALE NTS	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION	
	4 PLACES ± --- ± --- 3 PLACES ± --- ± --- 2 PLACES ± 0.20 ± --- 1 PLACE ± --- ± ---	DRAWN BY GMENARLY	DATE 2009/03/17	TITLE MICRO SATA RECEPTACLE VERTICAL SMT 1.8 INCH SSD/HDD			
	ANGULAR ± 3 °	CHECKED BY CGOH	DATE 2009/05/20	MOLEX INCORPORATED			
	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS	APPROVED BY BOKOK	DATE 2009/05/20	MATERIAL NO. SEE TABLE	DOCUMENT NO. SD-78492-001	SHEET NO. 4 OF 4	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION