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Part Number: [0877131005](#)
Status: **Active**
Description: 1.27mm (.050") Pitch Serial ATA Host Receptacle, Surface Mount, Vertical, Standard Height, with 1.05mm (.041") Plastic Locating Peg, 0.76µm (30µ") Gold (Au) Selective Plating, without Kapton Tape, Tray Packaging, 22 Circuits, Leadfree

Documents:
[3D Model](#) [Product Specification PS-87713-016 \(PDF\)](#)
[Drawing \(PDF\)](#) [RoHS Certificate of Compliance \(PDF\)](#)

General
Product Family PCB Receptacles
Series [87713](#)
Application Board-to-Board
Comments 1.05mm (.041") Plastic Locating Peg
Product Literature Order No SNG-029
Product Name Serial ATA

Physical
Circuits (Loaded) 22
Circuits Detail Power 15 pins|Signal 7 pins
Durability (mating cycles max) 500
Glow-Wire Compliant No
Lock to Mating Part Yes
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 None
PCB Thickness Recommended (in) 0.062 In
PCB Thickness Recommended (mm) 1.60 mm
Packaging Type Tray
Pitch - Mating Interface (in) 0.050 In
Pitch - Mating Interface (mm) 1.27 mm
Plating min: Mating (µin) 30
Plating min: Mating (µm) 0.76
Plating min: Termination (µin) 100
Plating min: Termination (µm) 2.54
Polarized to Mating Part Yes
Polarized to PCB Yes
Surface Mount Compatible (SMC) N/A
Temperature Range - Operating -40°C to +105°C
Termination Interface: Style Surface Mount

Electrical
Current - Maximum per Contact 1.5A
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

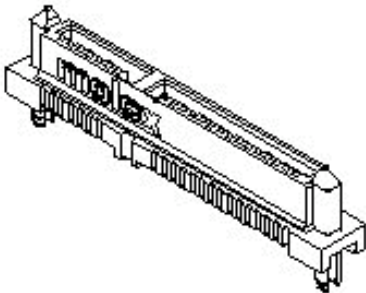


image - Reference only

Series

EU RoHS
ELV and RoHS
Compliant
REACH SVHC
Contains SVHC: No
Halogen-Free
Status

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
[87713Series](#)

Mates With
[87679](#) , [87799](#) , [87703](#)

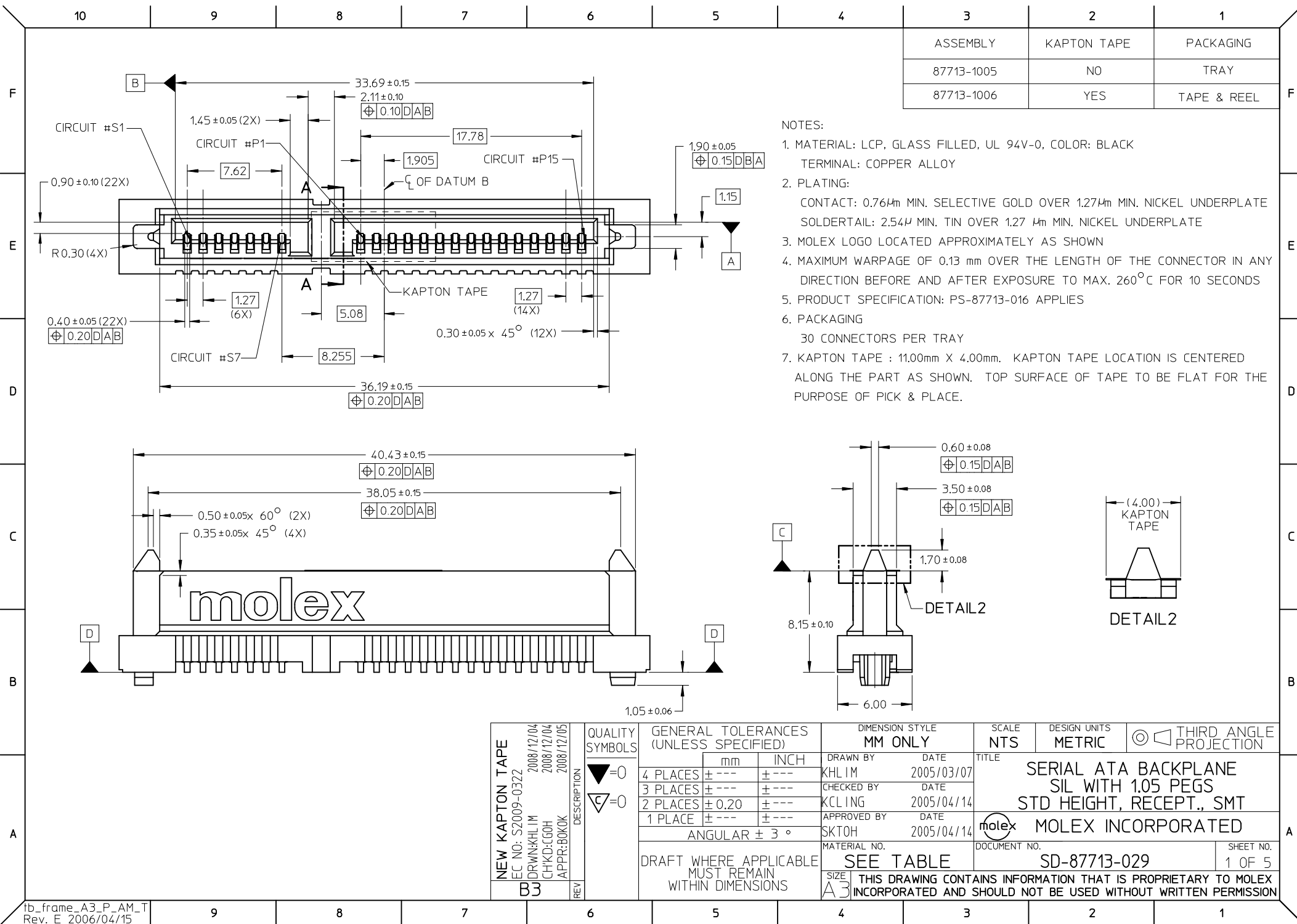
Material Info

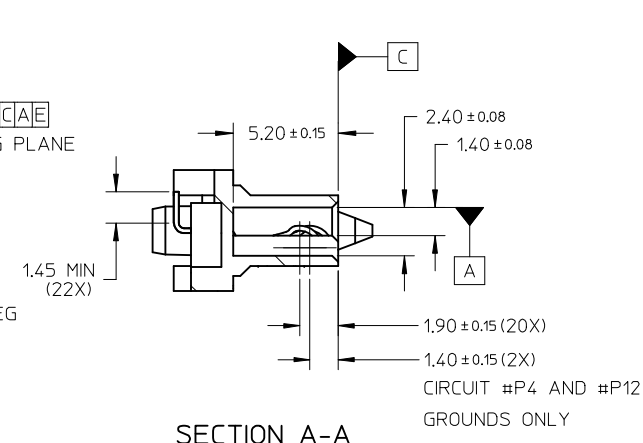
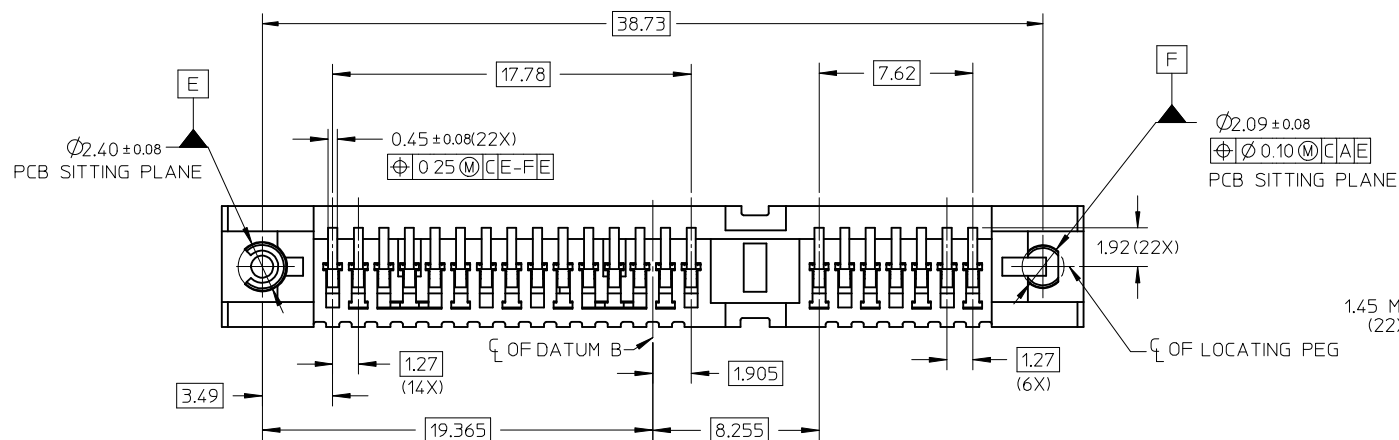
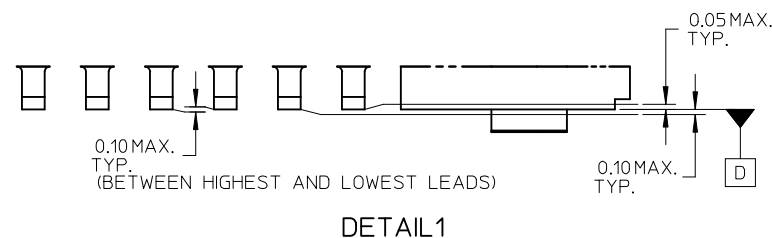
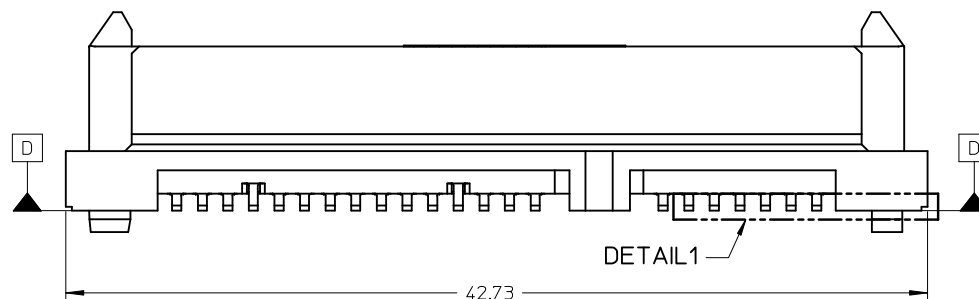
Reference - Drawing Numbers

Product Specification	PS-87713-016
Sales Drawing	SD-87713-029

This document was generated on 03/29/2010

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NEW KAPTON TAPE EC NO: S2009-0322 DRWN:KHLIM CHKD:CGOH APPR:BOKOK		2008/12/04 2008/12/04 2008/12/05	DESCRIPTION REV	QUALITY SYMBOLS ▽=0 ◻=0	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE NTS	DESIGN UNITS METRIC	 THIRD ANGLE PROJECTION		
B3							DRAWN BY KHLIM	DATE 2005/03/07	TITLE SERIAL ATA BACKPLANE SIL WITH 1.05 PEGS STD HEIGHT, RECEPT., SMT MOLEX INCORPORATED SD-87713-029			SHEET NO. 2 OF 5	
					4 PLACES	± ---	± ---	CHECKED BY KCLING					DATE 2005/04/14
					3 PLACES	± ---	± ---	APPROVED BY SKTOH					DATE 2005/04/14
					2 PLACES	± 0.20	± ---	MATERIAL NO.					DOCUMENT NO.
1 PLACE					± ---	± ---	SEE TABLE						
ANGULAR ± 3 °					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						

10 9 8 7 6 5 4 3 2 1

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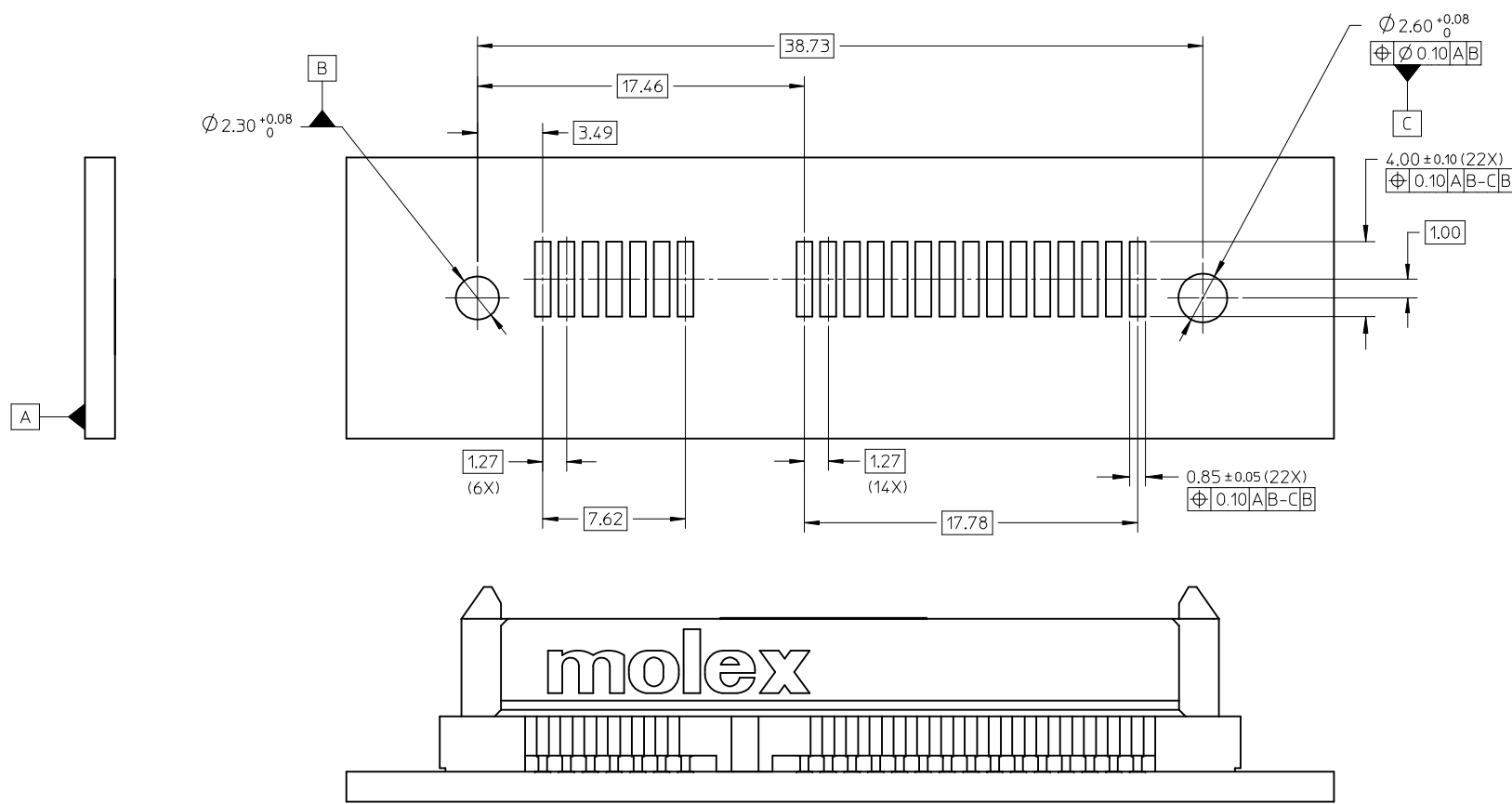
E

D

C

B

A



PCB THICKNESS: 1.60±0.10 mm
RECOMMENDED PCB LAYOUT

NEW KAPTON TAPE EC NO: S2009-0322 DRWN:KHLIM CHKD:CGOH APPR:BOKOK		DESCRIPTION REV	QUALITY SYMBOLS ▽=0 ▽=0	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE NTS	DESIGN UNITS METRIC	 THIRD ANGLE PROJECTION	TITLE SERIAL ATA BACKPLANE SIL WITH 1.05 PEGS STD HEIGHT, RECEPT., SMT MOLEX INCORPORATED SD-87713-029	SHEET NO. 3 OF 5
					mm	INCH	DRAWN BY KHLIM	DATE 2005/03/07				
				4 PLACES	± ---	± ---	CHECKED BY KCLING	DATE 2005/04/14				
				3 PLACES	± ---	± ---	APPROVED BY SKTOH	DATE 2005/04/14				
B3		REV		2 PLACES	± 0.20	± ---						
				1 PLACE	± ---	± ---						
				ANGULAR ± 3 °		MATERIAL NO.		DOCUMENT NO.				
				DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SEE TABLE						
						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

10 9 8 7 6 5 4 3 2 1

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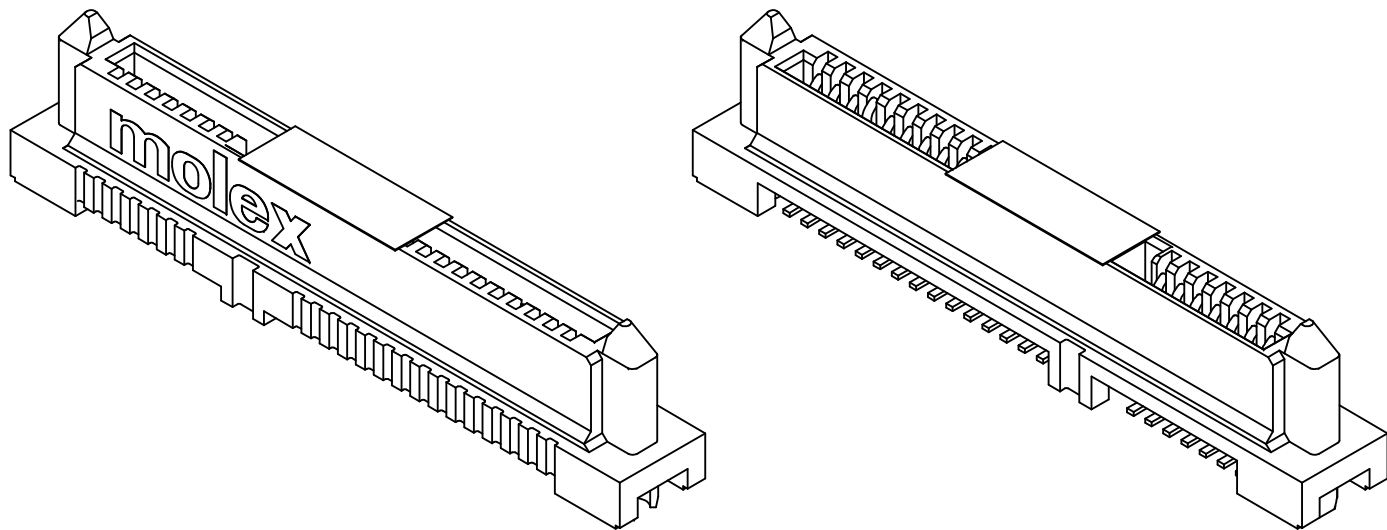
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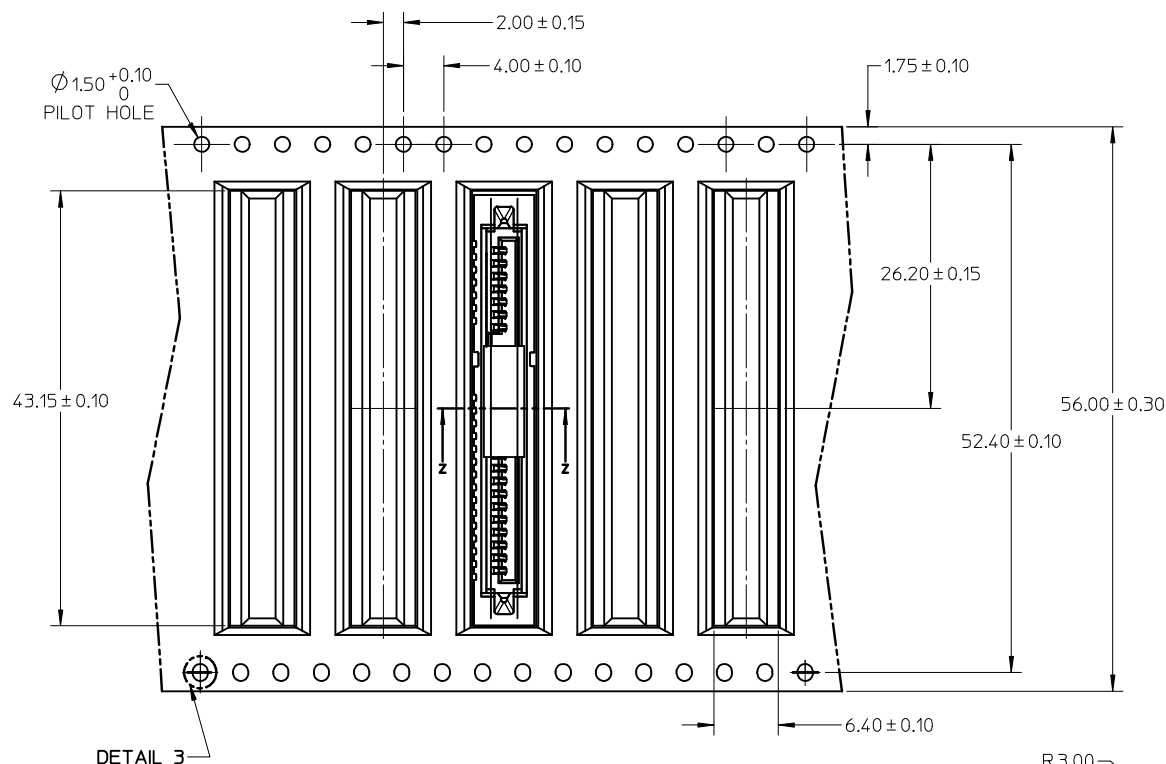
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NEW KAPTON TAPE EC NO: S2009-0322 2008/12/04 DRWN:KHLIM CHKD:CGOH 2008/12/04 APPR:BOKOK 2008/12/05			DESCRIPTION REV	QUALITY SYMBOLS ▽=0 ▽=0	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE NTS	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION						
						mm	INCH	DRAWN BY KHLIM		DATE 2005/03/07		TITLE SERIAL ATA BACKPLANE SIL WITH 1.05 PEGS STD HEIGHT, RECEPT., SMT MOLEX INCORPORATED					
					4 PLACES	± ---	± ---	CHECKED BY KCLING		DATE 2005/04/14							
					3 PLACES	± ---	± ---	APPROVED BY SKTOH		DATE 2005/04/14							
					2 PLACES	± 0.20	± ---										
					1 PLACE	± ---	± ---										
					ANGULAR ± 3 °			MATERIAL NO.		DOCUMENT NO.		SHEET NO.					
					DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS			SEE TABLE				SD-87713-029				4 OF 5	
								SIZE A3	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION								

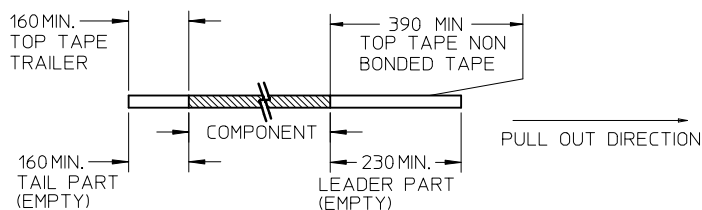
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TAPE AND REEL PACKAGING

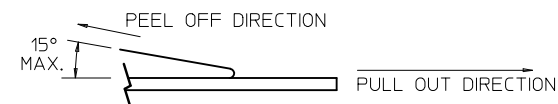


NOTES:

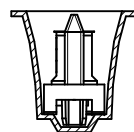
1. LEADER AND TRAILER TAPE



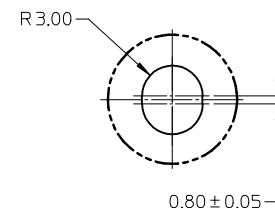
2. PEELING OFF FORCE OF THE TOP TAPE: 80gf MAX. (PEELING DIRECTION AS SHOWN IN FOLLOWING FIGURE)



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



SECTION Z-Z



DETAIL 3

NEW KAPTON TAPE EC NO: S2009-0322 DRWN:KHLIM CHKD:CGOH APPR:BOKOK 2008/12/04 2008/12/04 2008/12/05	DESCRIPTION	QUALITY SYMBOLS ▽=0 ▽=0	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE NTS	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION			
				mm	INCH	DRAWN BY KHLIM	DATE 2005/03/07	TITLE SERIAL ATA BACKPLANE SIL WITH 1.05 PEGS STD HEIGHT, RECEPT., SMT				
						CHECKED BY KCLING	DATE 2005/04/14					
						APPROVED BY SKTOH	DATE 2005/04/14	MOLEX INCORPORATED				
			ANGULAR ± 3 °		MATERIAL NO.		DOCUMENT NO.					
			DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SEE TABLE		SD-87713-029					
REV	B3			SIZE A3	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION							
				SHEET NO. 5 OF 5								