

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number: **0877131006**
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, with Kapton Tape, Tape on Reel 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 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

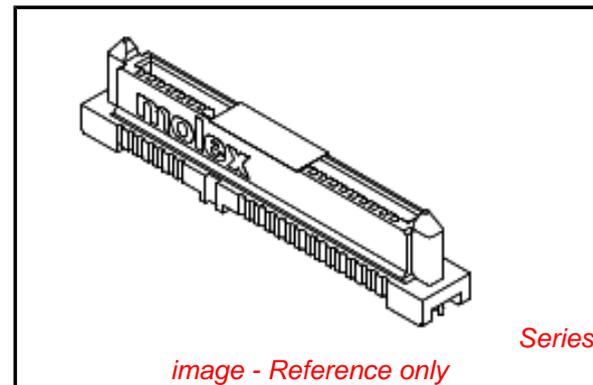
Electrical

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

Material Info



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

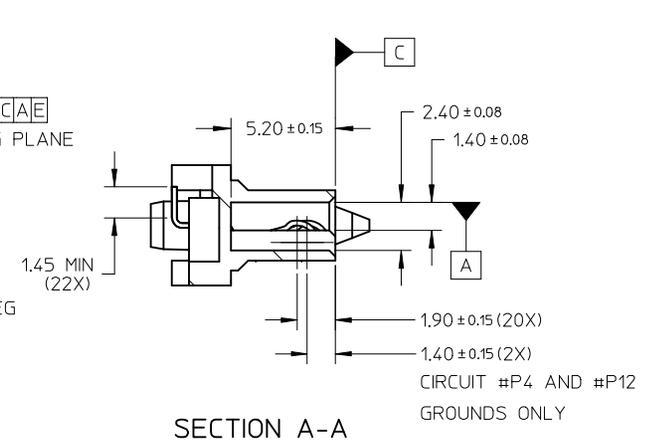
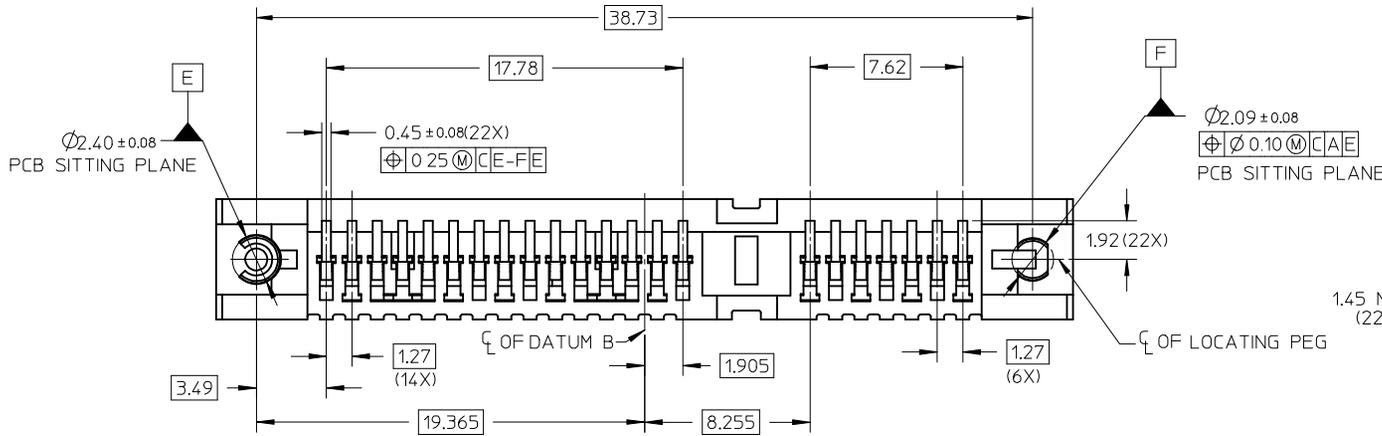
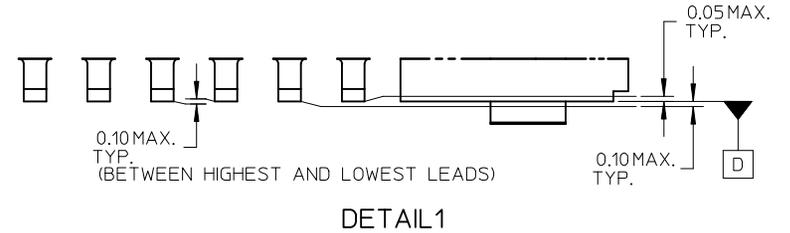
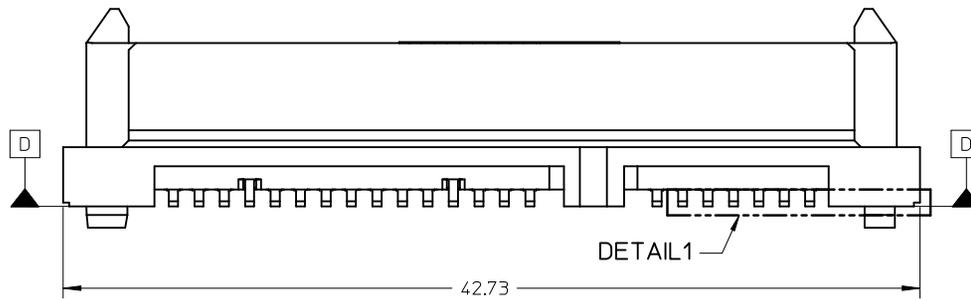
Reference - Drawing Numbers

Product Specification
Sales Drawing

PS-87713-016
SD-87713-029

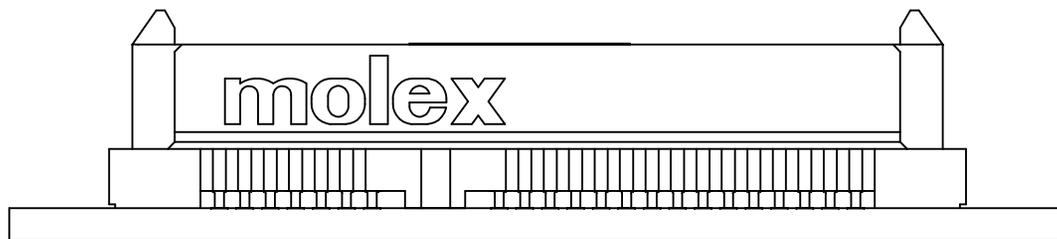
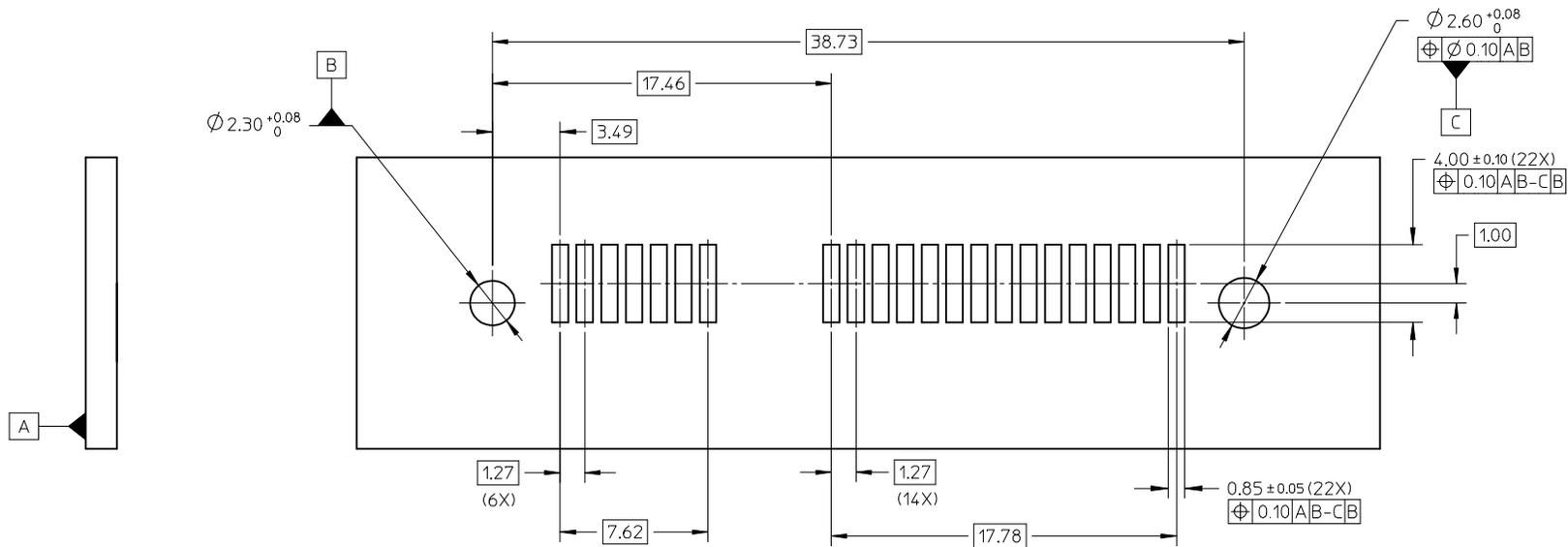
This document was generated on 03/29/2010

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION



NEW KAPTON TAPE EC NO: S2009-0322 DRW:KHLIM CHKD:CGOH APPR:BOKOK	2008/12/04 2008/12/04 2008/12/05	DESCRIPTION B3	QUALITY SYMBOLS	GENERAL TOLERANCES (UNLESS SPECIFIED)	DIMENSION STYLE	SCALE	DESIGN UNITS	THIRD ANGLE PROJECTION
			$\nabla=0$ $\nabla=0$	mm INCH 4 PLACES ± --- ± --- 3 PLACES ± --- ± --- 2 PLACES ± 0.20 ± --- 1 PLACE ± --- ± --- ANGULAR ± 3 °	MM ONLY	NTS	METRIC	
			DRAWN BY: KHLIM DATE: 2005/03/07 CHECKED BY: KCLING DATE: 2005/04/14 APPROVED BY: SKTOH DATE: 2005/04/14	TITLE SERIAL ATA BACKPLANE SIL WITH 1.05 PEGS STD HEIGHT, RECEPT., SMT		MOLEX INCORPORATED		SHEET NO. 2 OF 5
			MATERIAL NO. SEE TABLE	DOCUMENT NO. SD-87713-029		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION		

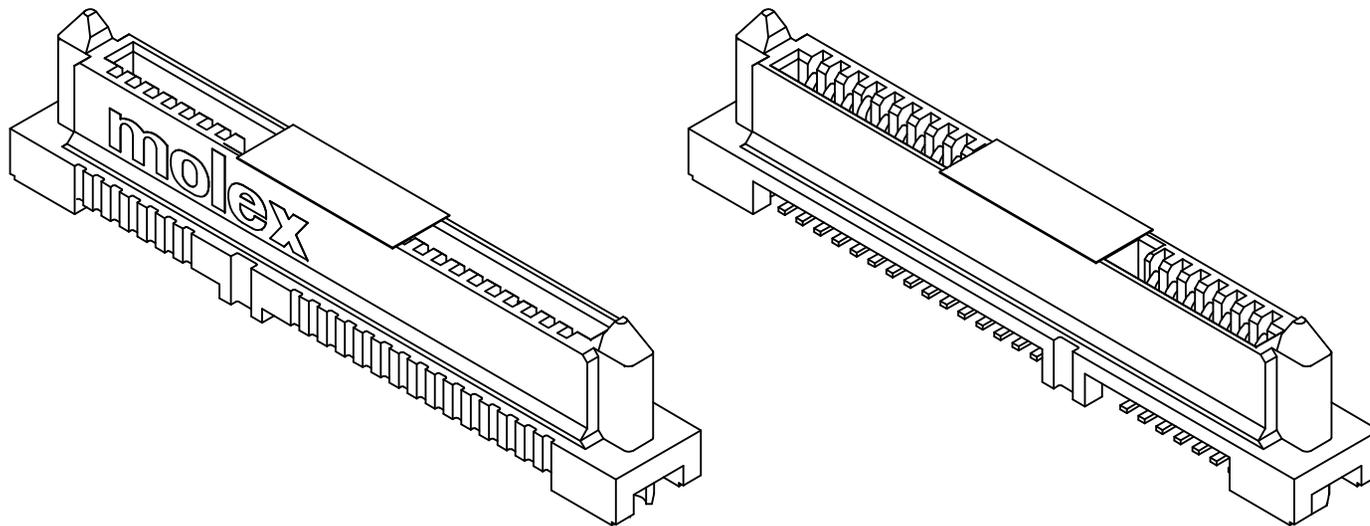
10 9 8 7 6 5 4 3 2 1



PCB THICKNESS: 1.60±0.10 mm
RECOMMENDED PCB LAYOUT

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

9 8 7 6 5 4 3 2 1



NEW KAPTON TAPE EC NO: S2009-0322 DRW:KHLIM 2008/12/04 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		
			4 PLACES ± --- ± --- 3 PLACES ± --- ± --- 2 PLACES ± 0.20 ± --- 1 PLACE ± --- ± ---	mm INCH ± --- ± --- ± 0.20 ± --- ± --- ± ---	DRAWN BY KHLIM	DATE 2005/03/07	TITLE SERIAL ATA BACKPLANE SIL WITH 1.05 PEGS STD HEIGHT, RECEPT., SMT				
			ANGULAR ± 3 °	CHECKED BY KCLING	DATE 2005/04/14	MOLEX INCORPORATED					
		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS	APPROVED BY SKTOH	DATE 2005/04/14	MATERIAL NO. SEE TABLE	DOCUMENT NO. SD-87713-029	SHEET NO. 4 OF 5				

