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Part Number: [0878240003](#)
Status: **Active**
Description: 1.27mm (.050") Signal Pitch, 0.80mm (.031") SCSI Pitch, 1.27mm (.050") Power Pitch
SAS Receptacle, Vertical, Surface Mount, with Straight Solder Tab, 1.6mm (.062") PCB
Thickness, 29 Circuits, with Cap, Tray, Leadfree

Documents:

[3D Model](#) [Product Specification PS-87824-029 \(PDF\)](#)
[Drawing \(PDF\)](#) [RoHS Certificate of Compliance \(PDF\)](#)

Agency Certification

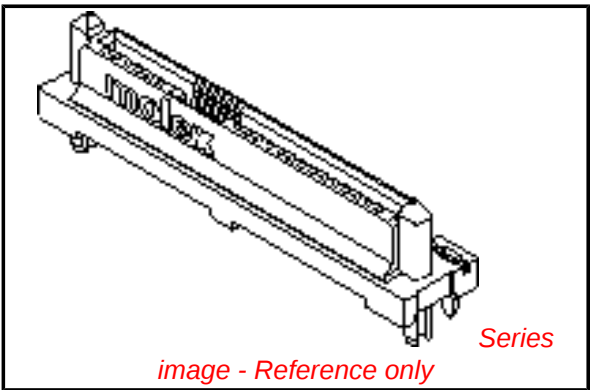
CSA LR19980
UL E29179

General

Product Family I/O Connectors
Series [87824](#)
Application Board-to-Board
Comments With Pick-and-Place Cap
Component Type Receptacle
Product Name SAS
Type N/A

Physical

Boot Color N/A
Circuits (Loaded) 29
Circuits (maximum) 29
Circuits Detail Signal 7, SCSI 7, Power 15
Color - Resin Black
Durability (mating cycles max) 500
Flammability 94V-0
Gender Female
Keying to Mating Part Yes
Lock to Mating Part None
Material - Metal Copper Alloy
Material - Plating Mating Gold, Tin
Material - Plating Termination Tin
Material - Resin High Temperature Thermoplastic
Number of Rows 2
Orientation Vertical
PCB Locator Yes
PCB Retention Yes
PCB Thickness Recommended (in) 0.063 In
PCB Thickness Recommended (mm) 1.60 mm
Packaging Type Tray
Panel Mount Yes
Pitch - Mating Interface (in) 0.031 In, 0.050 In
Pitch - Mating Interface (mm) 0.80 mm, 1.27 mm
Pitch - Term. Interface (in) 0.031 In, 0.050 In
Pitch - Term. Interface (mm) 0.80 mm, 1.27 mm
Plating min: Mating (µin) 30
Plating min: Mating (µm) 0.76
Plating min: Termination (µin) 102
Plating min: Termination (µm) 2.54
Polarized to Mating Part Yes
Polarized to PCB Yes



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

[87824Series](#)

Mates With

SFF-8482 Hard Disk Drive and Backplane
Plug. [87679](#) Serial ATA Device Plug with
Latch. [87703](#) Serial ATA Device Plug
without Jumper. [87799](#) Serial ATA Device
Plug with Jumper

Surface Mount Compatible (SMC)	N/A
Temperature Range - Operating	0°C to +55°C
Termination Interface: Style	Surface Mount
Waterproof / Dustproof	No
Wire Size AWG	N/A

Electrical

Current - Maximum per Contact	1.5A
Shielded	No
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

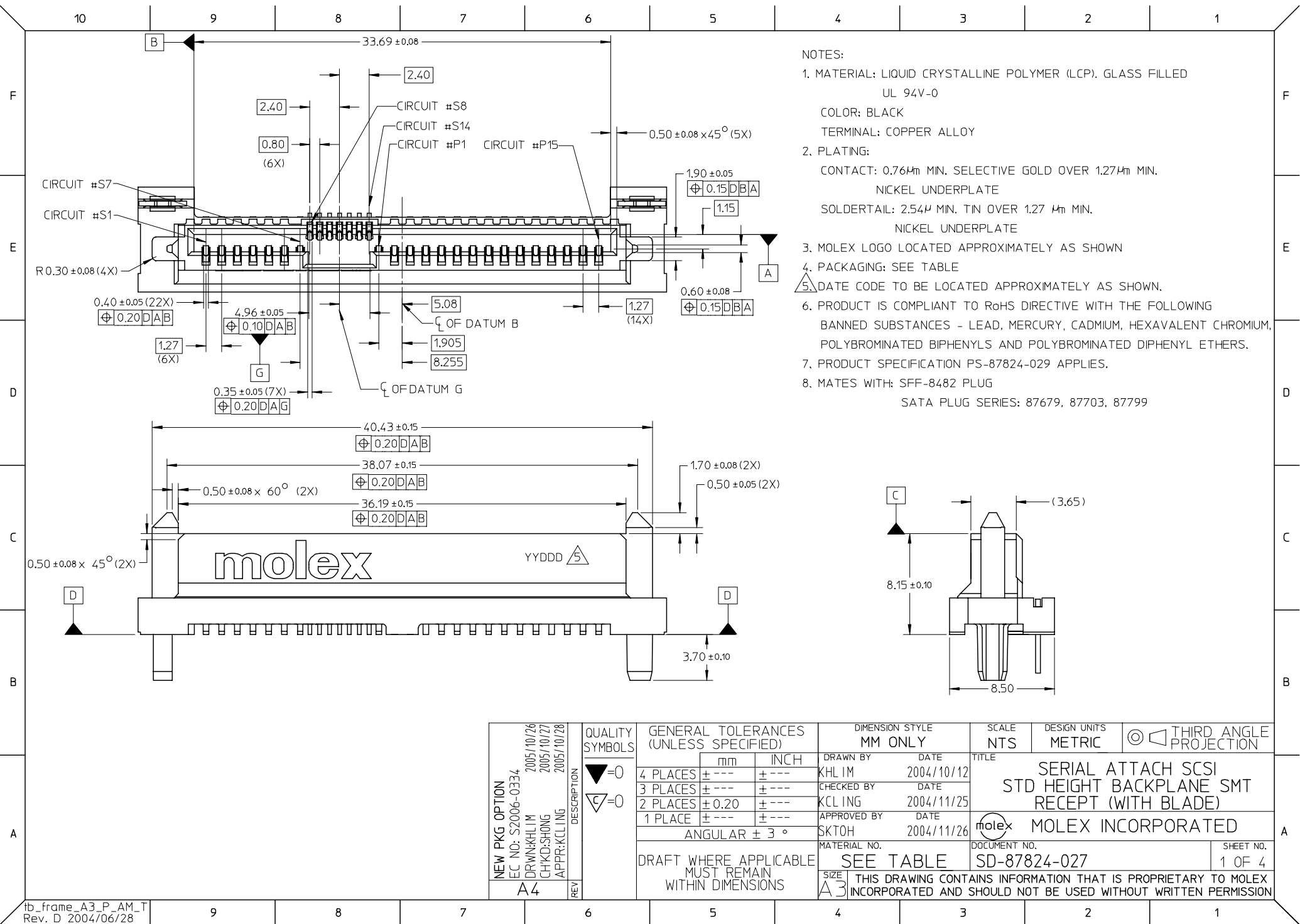
Material Info

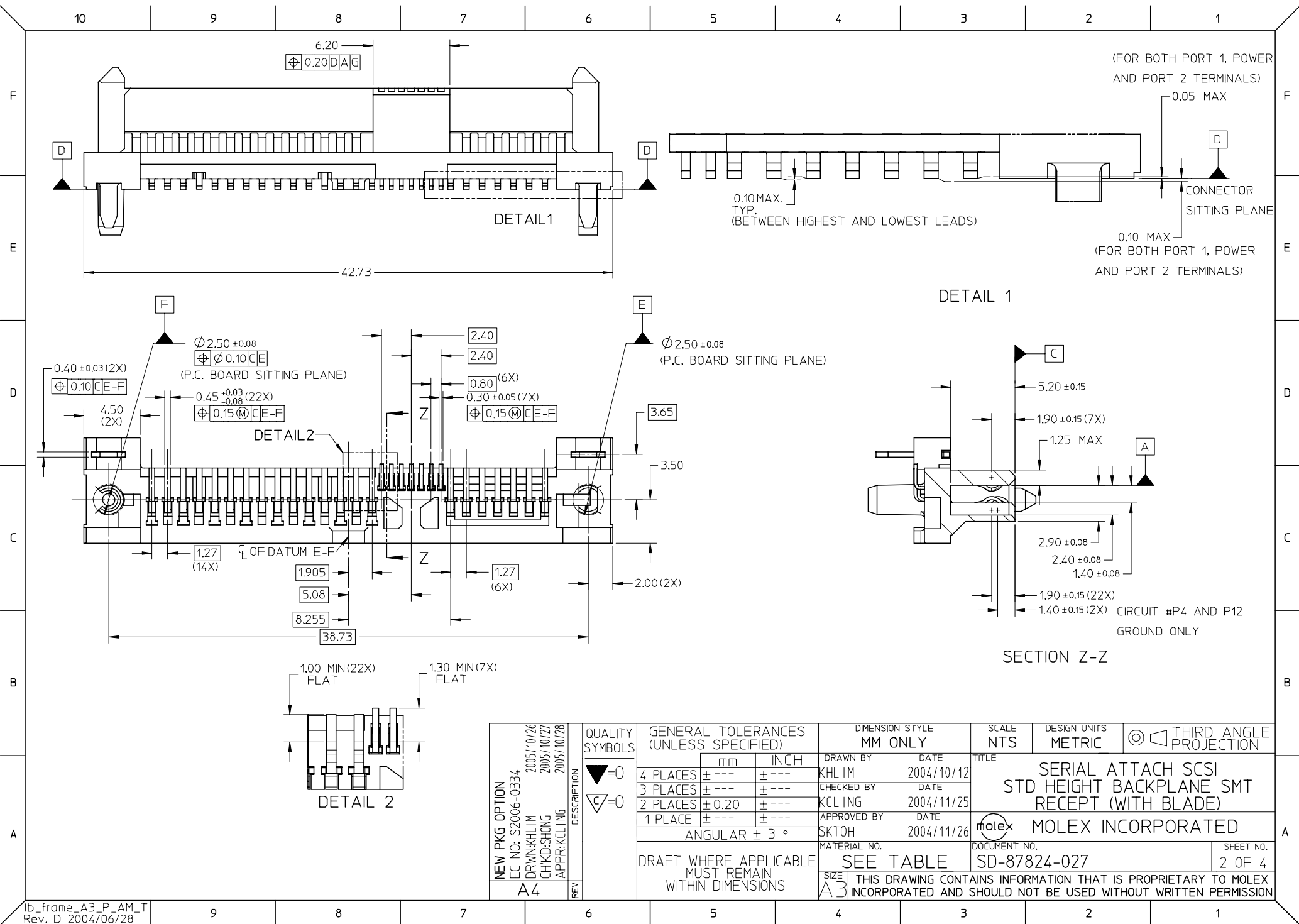
Reference - Drawing Numbers

Product Specification	PS-87824-029
Sales Drawing	SD-87824-027

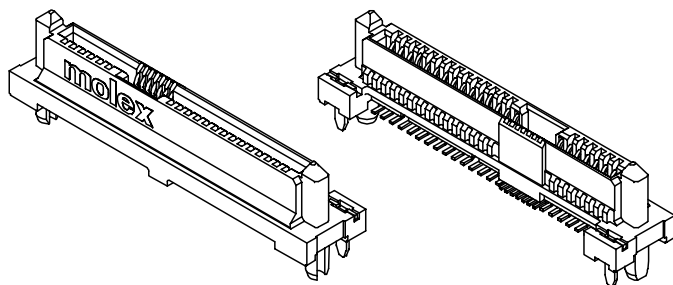
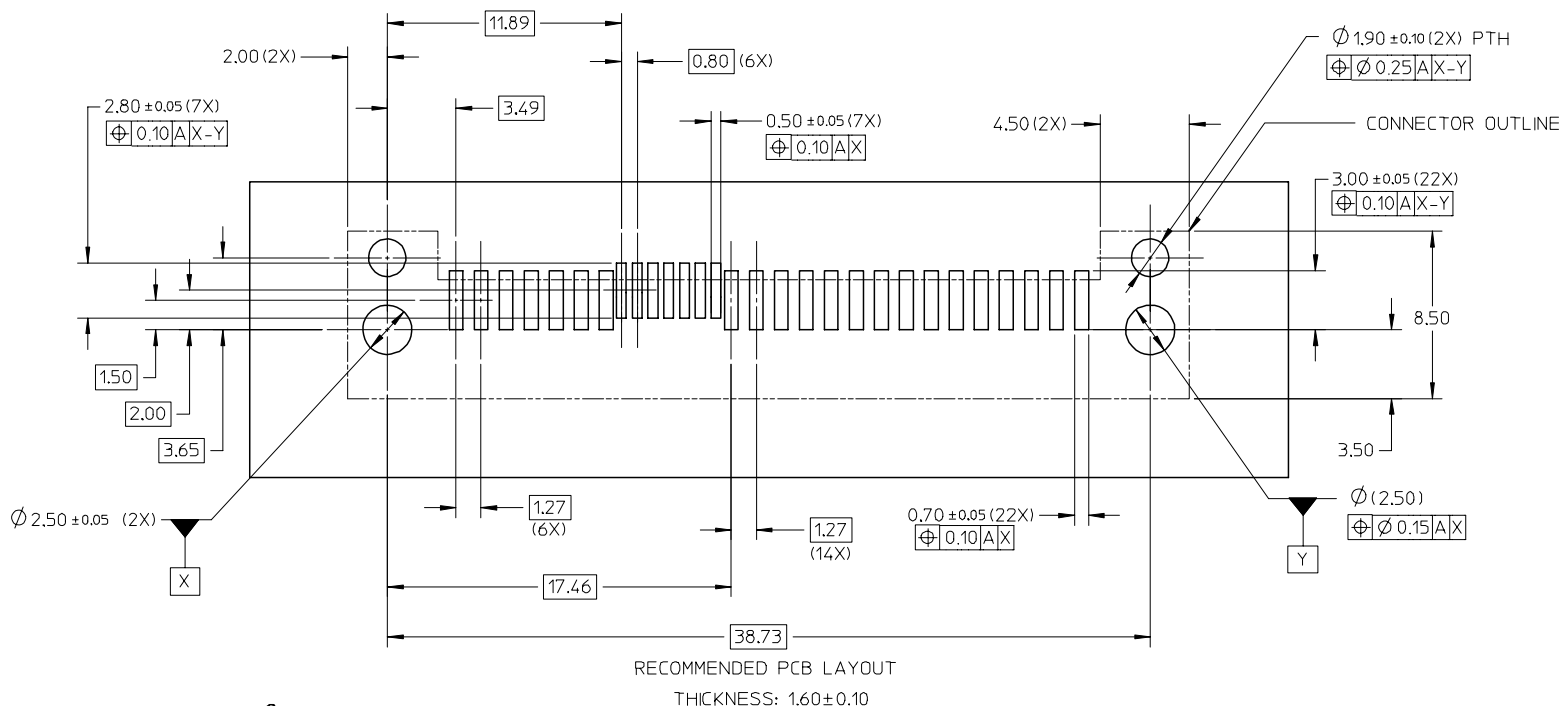
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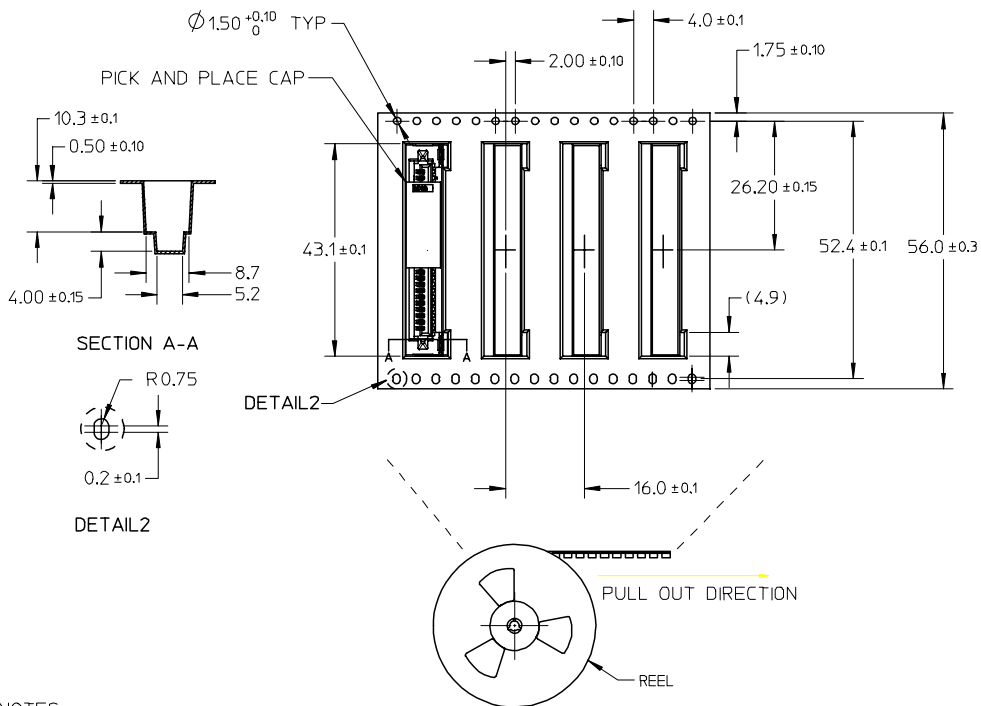


PART NO	PACKAGING	QUANTITY	PICK AND PLACE CAP
87824-0003	TRAY	50/TRAY	YES
87824-0005	TRAY	30/TRAY	NO
87824-0007	TAPE AND REEL	350/REEL	YES

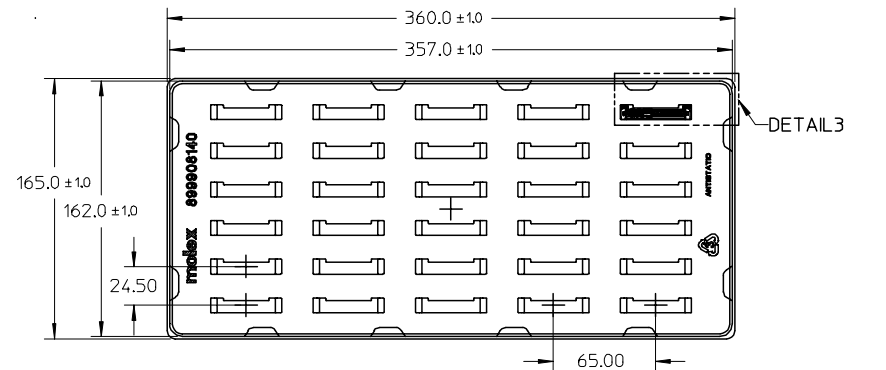


NEW PKG OPTION EC NO: S2006-0334 DRAWN:KHLIM CHKD:SHONG APPR:KCLING A4	2005/10/26 2005/10/27 2005/10/28	DESCRIPTION REV	QUALITY SYMBOLS ▽=0 ▽=0	GENERAL TOLERANCES (UNLESS SPECIFIED) <table><tr><td></td><td>mm</td><td>INCH</td></tr><tr><td>4 PLACES</td><td>± ---</td><td>± ---</td></tr><tr><td>3 PLACES</td><td>± ---</td><td>± ---</td></tr><tr><td>2 PLACES</td><td>± 0.20</td><td>± ---</td></tr><tr><td>1 PLACE</td><td>± ---</td><td>± ---</td></tr><tr><td colspan="3">ANGULAR ± 3 °</td></tr></table>		mm	INCH	4 PLACES	± ---	± ---	3 PLACES	± ---	± ---	2 PLACES	± 0.20	± ---	1 PLACE	± ---	± ---	ANGULAR ± 3 °			DIMENSION STYLE MM ONLY	SCALE NTS	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION
					mm	INCH																				
	4 PLACES				± ---	± ---																				
	3 PLACES				± ---	± ---																				
2 PLACES	± 0.20	± ---																								
1 PLACE	± ---	± ---																								
ANGULAR ± 3 °																										
DRAWN BY KHL IM		DATE 2004/10/12	TITLE SERIAL ATTACH SCSI STD HEIGHT BACKPLANE SMT RECEPT (WITH BLADE)																							
CHECKED BY KCL ING		DATE 2004/11/25																								
APPROVED BY SKTOH		DATE 2004/11/26	molex MOLEX INCORPORATED																							
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		MATERIAL NO. SEE TABLE		DOCUMENT NO. SD-87824-027		SHEET NO. 3 OF 4																				
SIZE A3 THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION																										

TAPE AND REEL PACKAGING

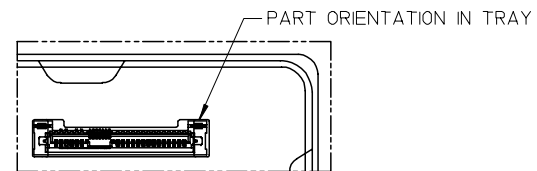


TRAY PACKAGING



NOTES:

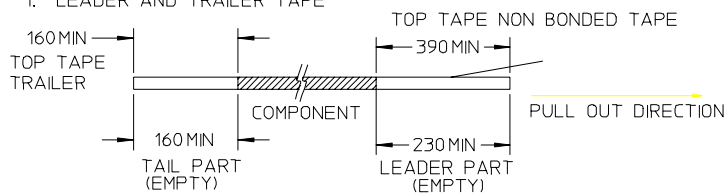
1. PACKAGING QTY: 30PCS/TRAY
2. NO PICK AND PLACE CAP



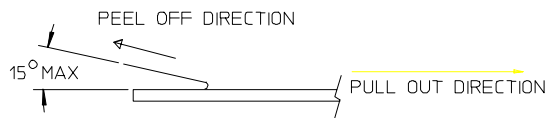
DETAIL3

- NOTES:

- ## 1. LEADER AND TRAILER TAPE



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



3. PACKAGING QTY: 350 PCS/REEL
4. PACKAGING STANDARD IS AS PER EIA-481.
5. CONNECTOR COMES WITH PICK AND PLACE CAP.

NEW PKG OPTION EC NO: S2006-0334 DRAWN:KHLIM CHK'D:SHONG APPR:KCLING A4	2005/10/26 2005/10/27 2005/10/28	DESCRIPTION ▽=0 ▽=0	QUALITY SYMBOLS	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE NTS	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION			
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				4 PLACES	± ---	± ---	CHECKED BY	DATE					
				3 PLACES	± ---	± ---	KCLING	2004/11/25					
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				1 PLACE	± ---	± ---	SKTOH	2004/11/26					
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