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Part Number: [0878240004](#)
Status: **Active**
Description: 1.27mm (.050") Signal Pitch, 0.80mm (.031") SCSI Pitch, 1.27mm (.050") Power Pitch
SAS Receptacle, Vertical, Surface Mount, with Surface Mount Solder Tab, 4.6mm
(.180") 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

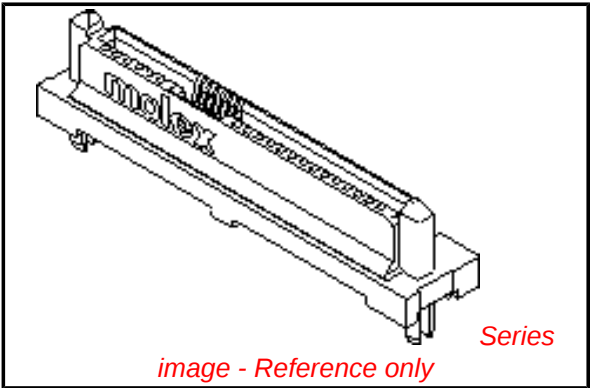
CSA LR19980
UL E29179

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 Brass, Phosphor Bronze
Material - Plating Mating Gold
Material - Plating Termination Tin
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
Surface Mount Compatible (SMC) N/A



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](#)

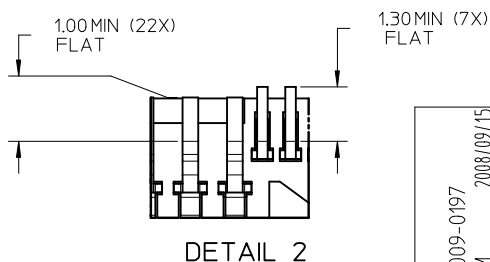
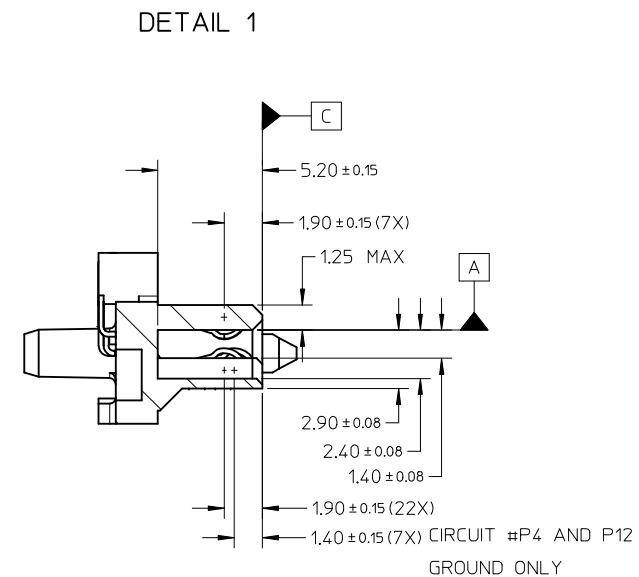
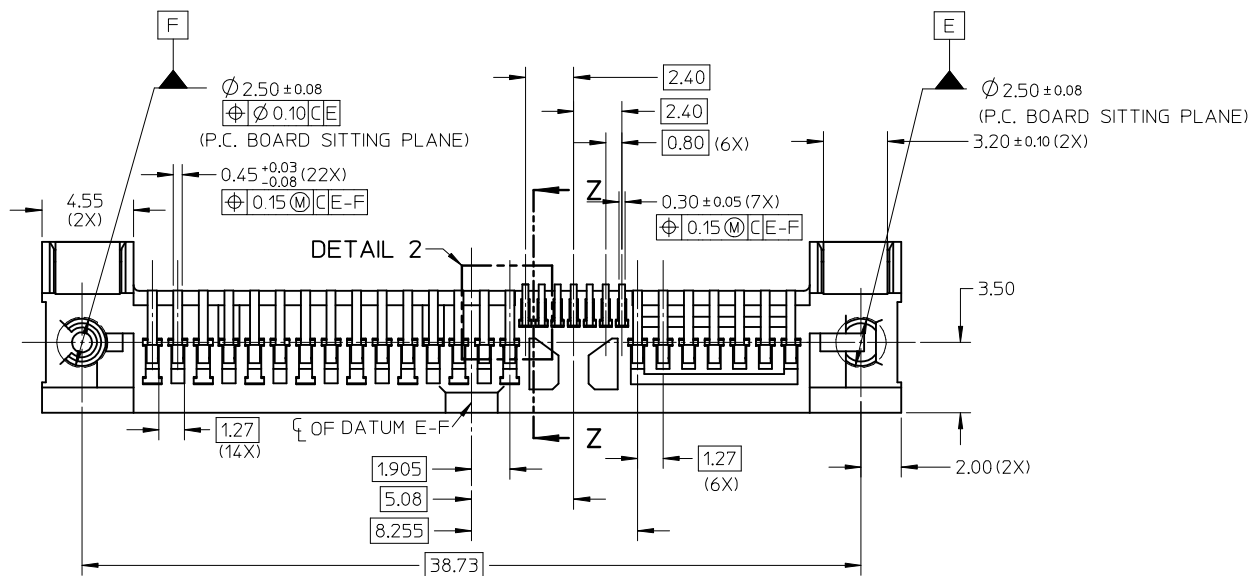
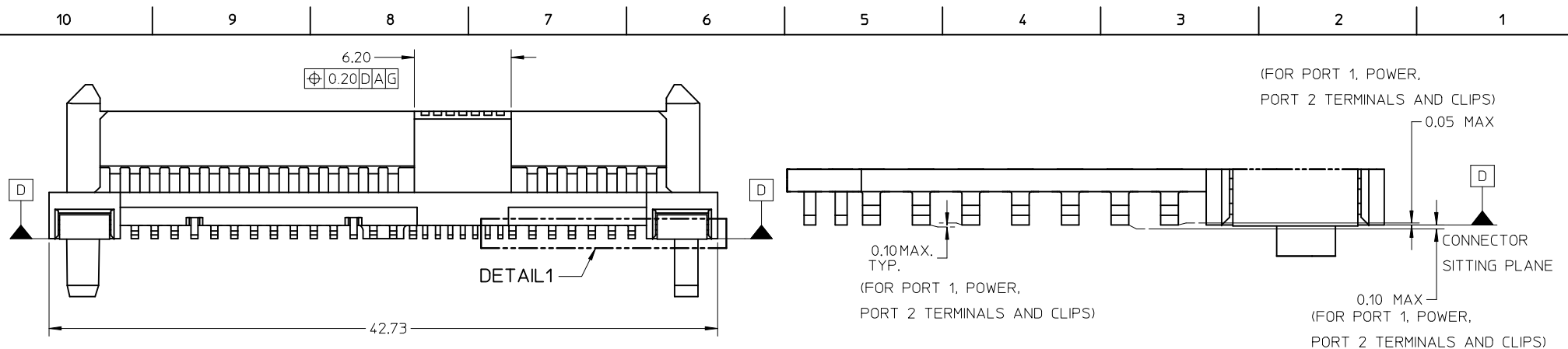
Mates With

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

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-87824-031

This document was generated on 04/09/2010

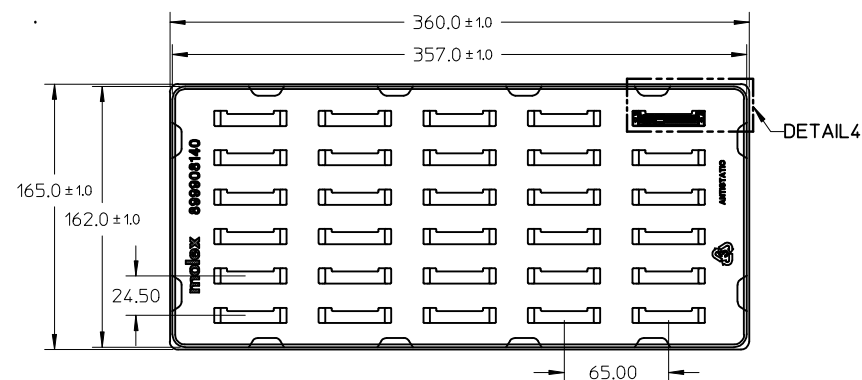
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SECTION Z-Z

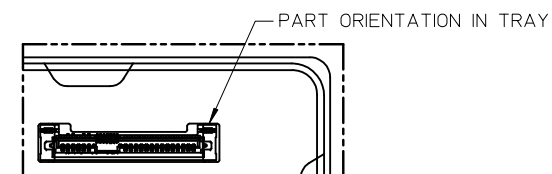
REVISED		QUALITY SYMBOLS		GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE		SCALE		DESIGN UNITS		THIRD ANGLE PROJECTION	
EC NO: S2009-0197		DRAWN BY		mm		MM ONLY		NTS		METRIC		DATE	
2008/09/15		KHLIM		INCH		DRAWN BY		DATE		TITLE		2005/07/07	
2008/09/16		CHKD: CGOH		4 PLACES		CHECKED BY		DATE		SERIAL ATTACH SCSI		2005/07/15	
2008/09/16		APPR: BOKOK		3 PLACES		APPROVED BY		DATE		STD HEIGHT BACKPLANE SMT		2005/07/15	
				2 PLACES		SKTOH		DATE		RECEPT (WITH SOLDER TAB)		2005/07/15	
				1 PLACE		MATERIAL NO.		DOCUMENT NO.		MOLEX INCORPORATED		SD-87824-031	
				ANGULAR $\pm 3^\circ$		SEE TABLE						SHEET NO.	
				DRAFT WHERE APPLICABLE		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX						2 OF 4	
				MUST REMAIN WITHIN DIMENSIONS									

TRAY PACKAGING



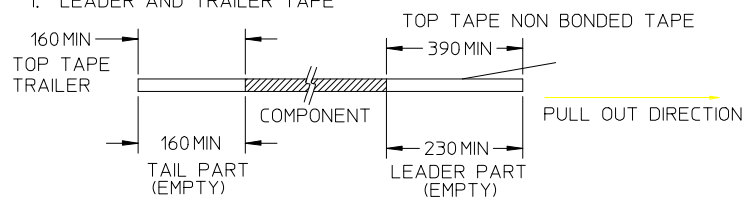
NOTES:

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

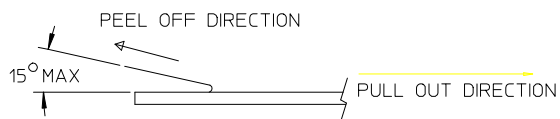


DETAIL 4

- ## 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.

REVISED	EC NO: S2009-0197	2008/09/15	DESCRIPTION	QUALITY SYMBOLS ▽=0 ▽=0	GENERAL TOLERANCES (UNLESS SPECIFIED) <table><tr><th>mm</th><th>INCH</th></tr><tr><td>4 PLACES ± ---</td><td>± ---</td></tr><tr><td>3 PLACES ± ---</td><td>± ---</td></tr><tr><td>2 PLACES ± 0.20</td><td>± ---</td></tr><tr><td>1 PLACE ± ---</td><td>± ---</td></tr><tr><td colspan="2">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																					
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APPR:BOBOK		APPROVED BY DATE SKTOH 2005/07/15		 MOLEX INCORPORATED DOCUMENT NO. SD-87824-031 SHEET NO. 4 OF 4																			
		MATERIAL NO.																					
A	REV	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																	