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Part Number:

0878240008

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, without Cap, Tray, Leadfree

Documents:

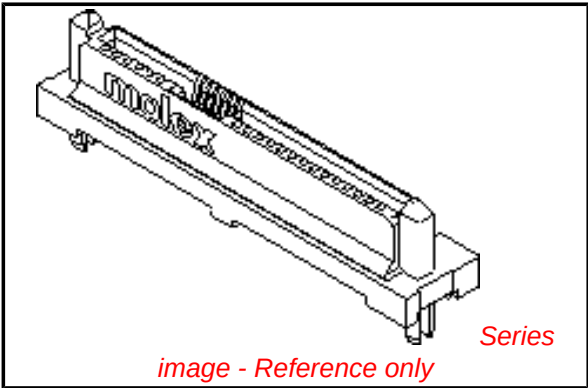
3D Model

Drawing (PDF)

Product Specification PS-87824-029 (PDF)

RoHS Certificate of Compliance (PDF)

General	
Product Family	I/O Connectors
Series	87824
Application	Board-to-Board
Comments	No 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
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)	0.180 In
PCB Thickness Recommended (mm)	4.60 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
Temperature Range - Operating	0°C to +55°C
Termination Interface: Style	Surface Mount
Waterproof / Dustproof	No
Wire Size AWG	N/A



EU RoHS

ELV and RoHS

Compliant

REACH SVHC

Not Reviewed

Halogen-Free

Status

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

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

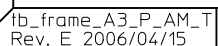
Material Info

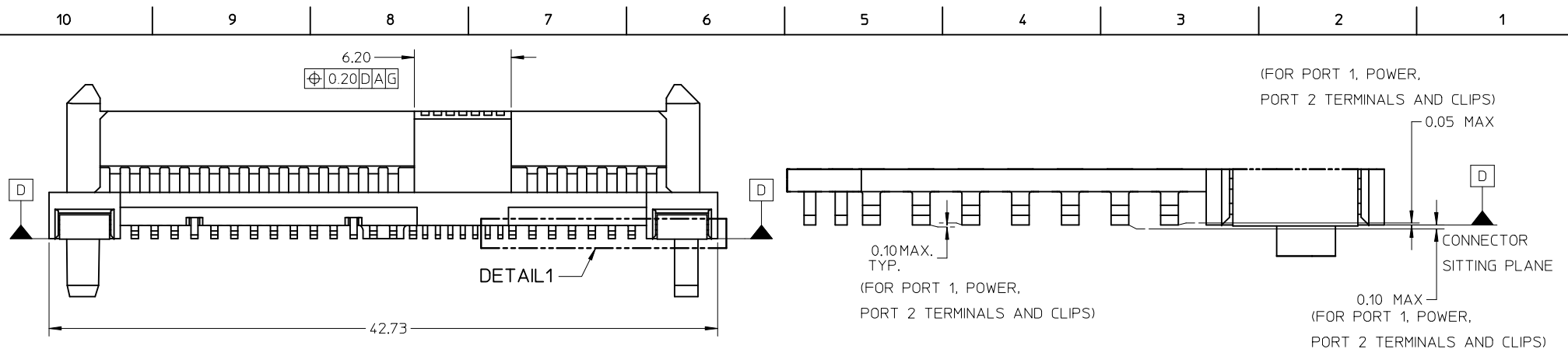
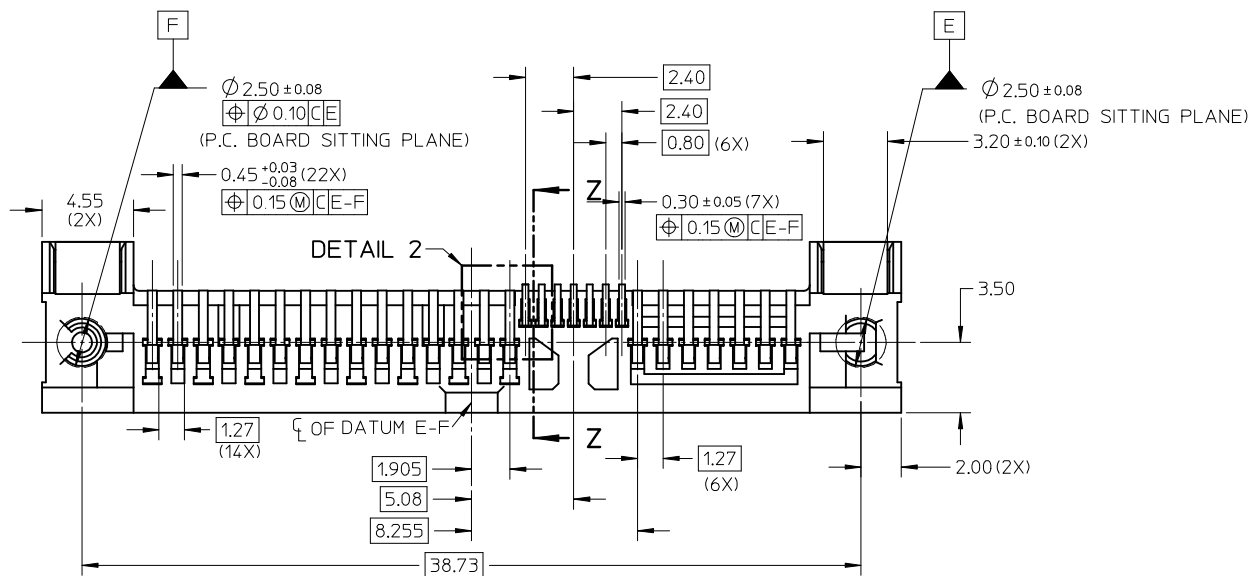
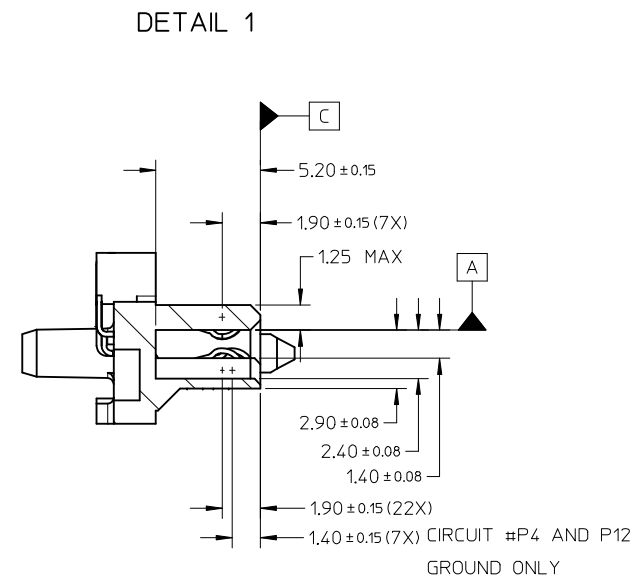
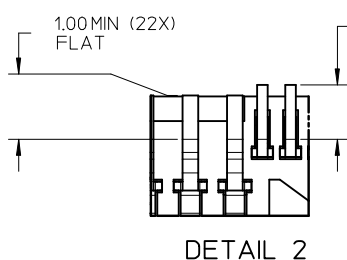
Reference - Drawing Numbers

Product Specification	PS-87824-029
Sales Drawing	SD-87824-031

This document was generated on 04/09/2010

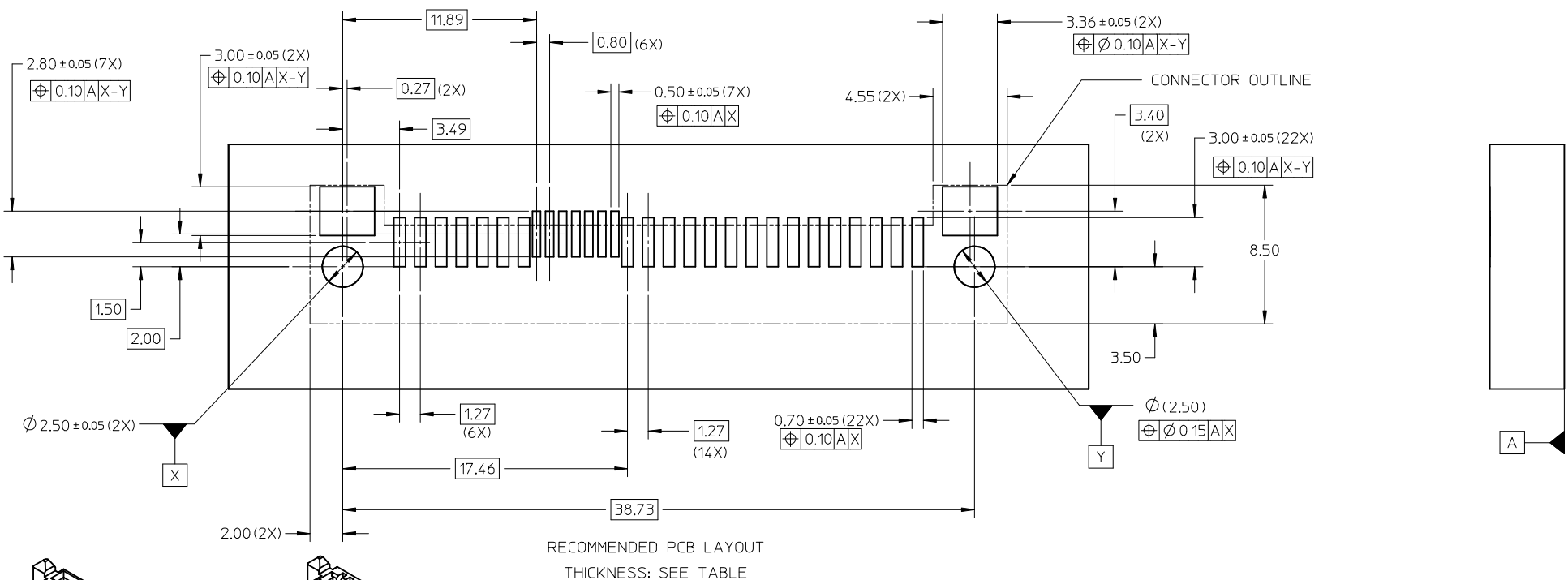
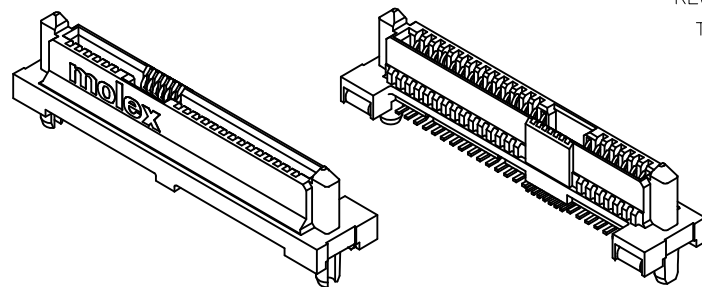
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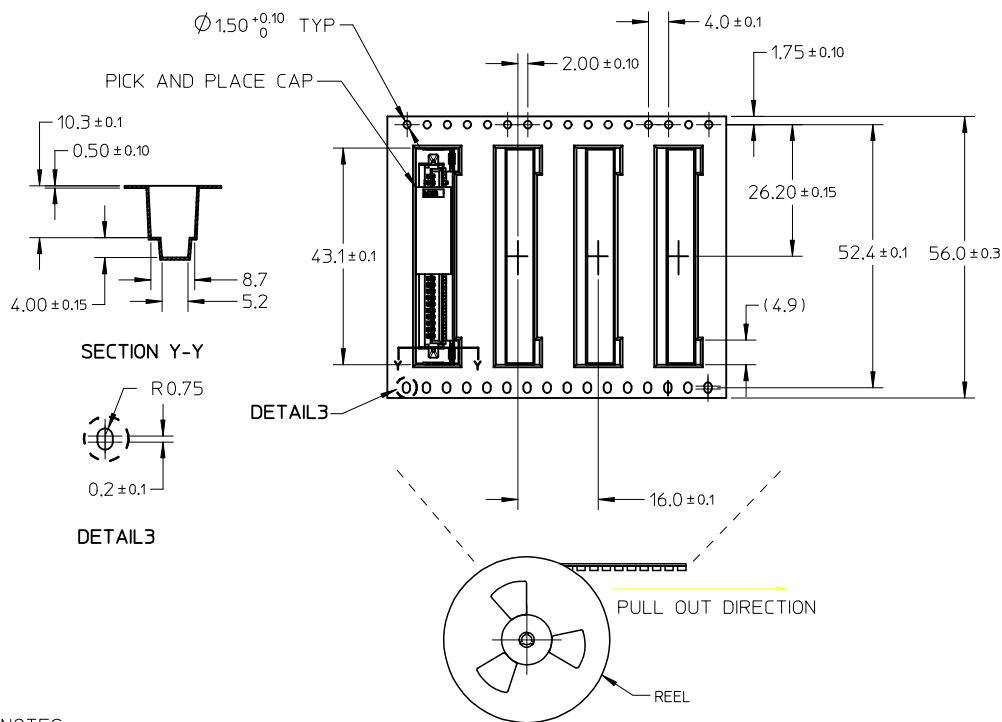
REVISED	EC NO: S2009-0197		DESCRIPTION	QUALITY SYMBOLS	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE		SCALE	DESIGN UNITS	THIRD ANGLE PROJECTION			
					MM ONLY		NTS	METRIC						
	2008/09/15	DRW:KHLIM			mm	INCH	DRAWN BY	DATE	TITLE SERIAL ATTACH SCSI STD HEIGHT BACKPLANE SMT RECEPT (WITH SOLDER TAB)					
	2008/09/16	CHKD:CGOH			4 PLACES	± ---	± ---	KHLIM						2005/07/07
	2008/09/16	APPR:BOKOK			3 PLACES	± ---	± ---	CHECKED BY	DATE	MOLEX INCORPORATED				
					2 PLACES	± 0.20	± ---	SHFONG	2005/07/15					
					1 PLACE	± ---	± ---	APPROVED BY	DATE	DOCUMENT NO. SD-87824-031				
					ANGULAR ± 3 °		SKTOH	2005/07/15						
					DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		MATERIAL NO.		SHEET NO. 2 OF 4					
					SEE TABLE		SIZE							
A			REV		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION									

PART NO	PACKAGING	QUANTITY	PICK & PLACE CAP	DIM S (2X) PEG HEIGHT	PCB THICKNESS
87824-0004	TRAY	50/TRAY	YES	3.70	4.57±0.10
87824-0008	TRAY	30/TRAY	NO	3.70	4.57±0.10
87824-0010	TAPE AND REEL	350/REEL	YES	3.70	4.57±0.10
87824-0013	TRAY	50/TRAY	YES	2.00	2.54±0.10
87824-0014	TRAY	30/TRAY	NO	2.00	2.54±0.10
87824-0015	TAPE AND REEL	350/REEL	YES	2.00	2.54±0.10



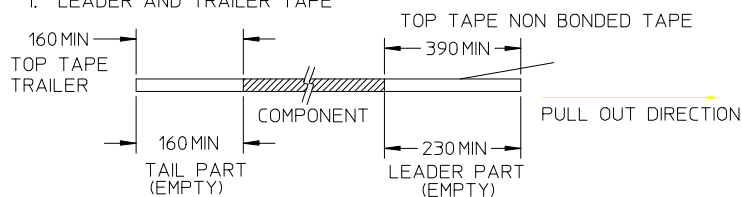
REVISED EC NO: S2009-0197 2008/09/15 DRWN:KHLIM CHKD:CGOH APPR:BOJOK 2008/09/16 2008/09/16	DESCRIPTION REV	QUALITY SYMBOLS <div>▽=0</div> <div>◻=0</div>	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE NTS	DESIGN UNITS METRIC	<div>THIRD ANGLE PROJECTION</div>	TITLE SERIAL ATTACH SCSI STD HEIGHT BACKPLANE SMT RECEPT (WITH SOLDER TAB)	<div>MOLEX INCORPORATED</div>	DOCUMENT NO. SD-87824-031	SHEET NO. 3 OF 4	
				mm	INCH	DRAWN BY KHLIM	DATE 2005/07/07	MATERIAL NO.						
			4 PLACES	± ---	± ---	CHECKED BY SHFONG	DATE 2005/07/15	SEE TABLE						
			3 PLACES	± ---	± ---	APPROVED BY SKTOH	DATE 2005/07/15							
			2 PLACES	± 0.20	± ---									
			1 PLACE	± ---	± ---	ANGULAR ± 3 °								
			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						

TAPE AND REEL PACKAGING

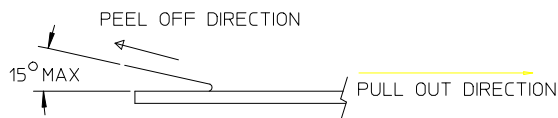


NOTES:

1. LEADER AND TRAILER TAPE



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

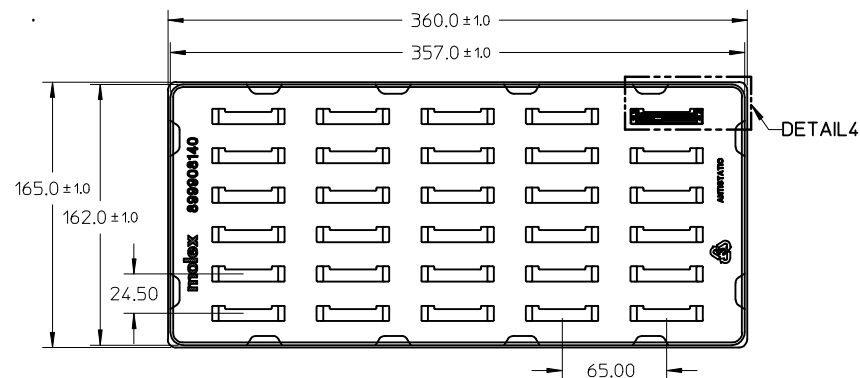


3. PACKAGING QTY: 350 PCS/REEL

4. PACKAGING STANDARD IS AS PER EIA-481.

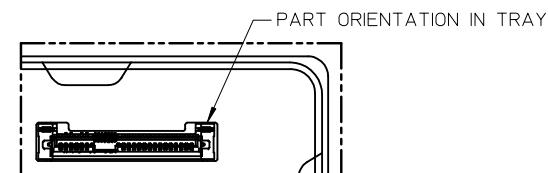
5. CONNECTOR COMES WITH PICK AND PLACE CAP.

TRAY PACKAGING



NOTES:

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



DETAIL4

REVISED	EC NO: S2009-0197	2008/09/15	2008/09/16	2008/09/16	DESCRIPTION	QUALITY SYMBOLS	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE		SCALE	DESIGN UNITS	THIRD ANGLE PROJECTION	
									MM ONLY		NTS	METRIC		
									DRAWN BY DATE		TITLE SERIAL ATTACH SCSI STD HEIGHT BACKPLANE SMT RECEPT (WITH SOLDER TAB)			
									KHL IM 2005/07/07					
									CHECKED BY DATE		MOLEX MOLEX INCORPORATED			
		SHFONG 2005/07/15												
		APPROVED BY DATE		DOCUMENT NO. SHEET NO.										
		SKTOH 2005/07/15						SD-87824-031 4 OF 4						
		ANGULAR ± 3 °		MATERIAL NO.										
		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SIZE SEE TABLE		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION								