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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

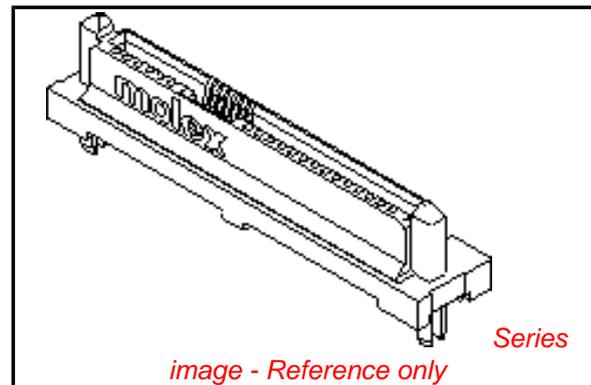
CSA LR19980
 UL E29179

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

China RoHS



Not Halogen-Free
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

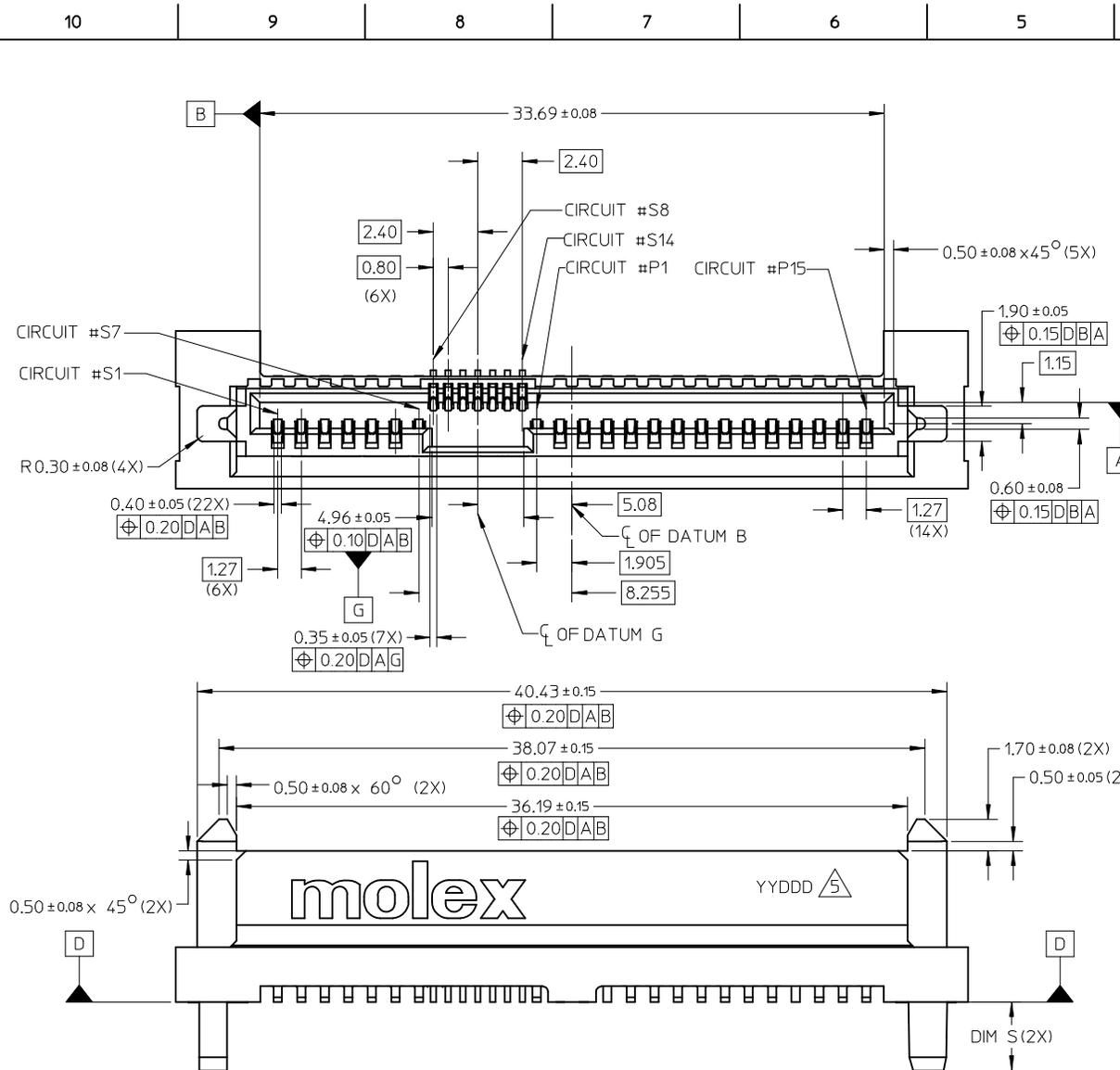
Duration at Max. Process Temperature (seconds)	10
Lead-free Process Capability	Reflow Capable (SMT only)
Max. Cycles at Max. Process Temperature	1
Process Temperature max. C	260

Material Info**Reference - Drawing Numbers**

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

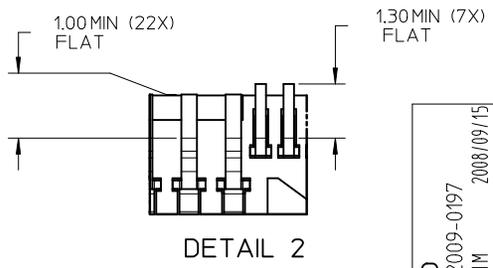
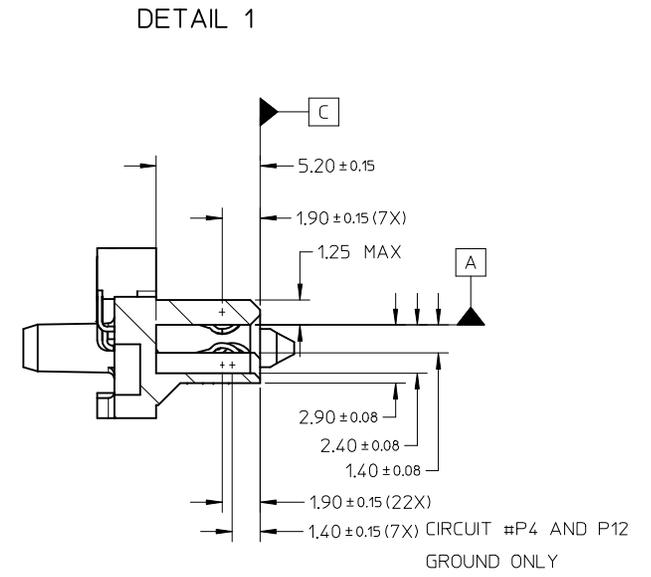
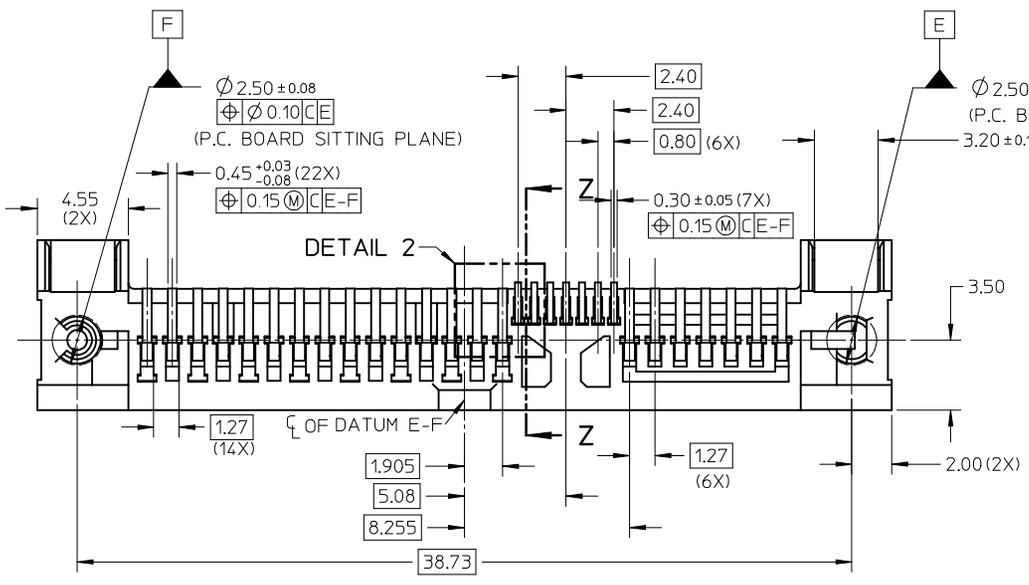
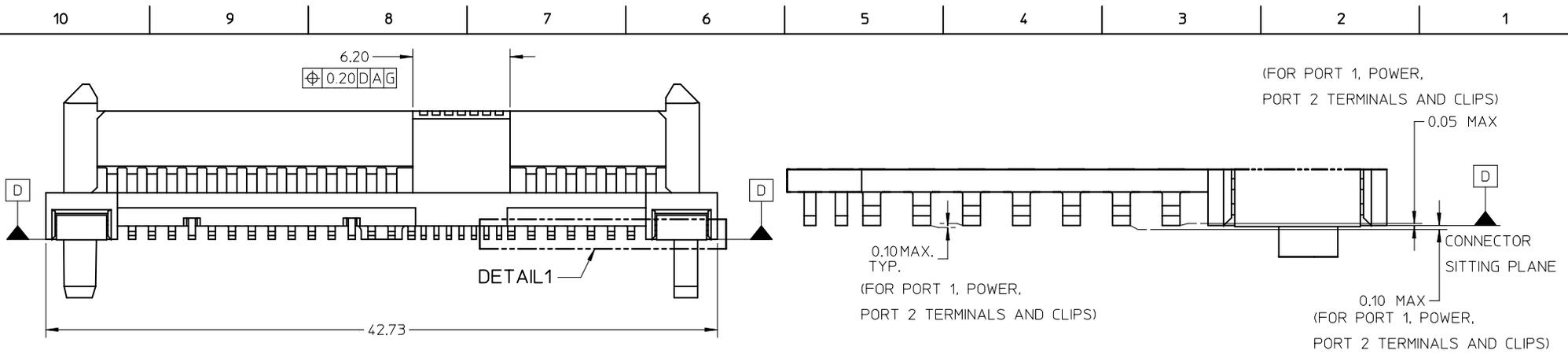
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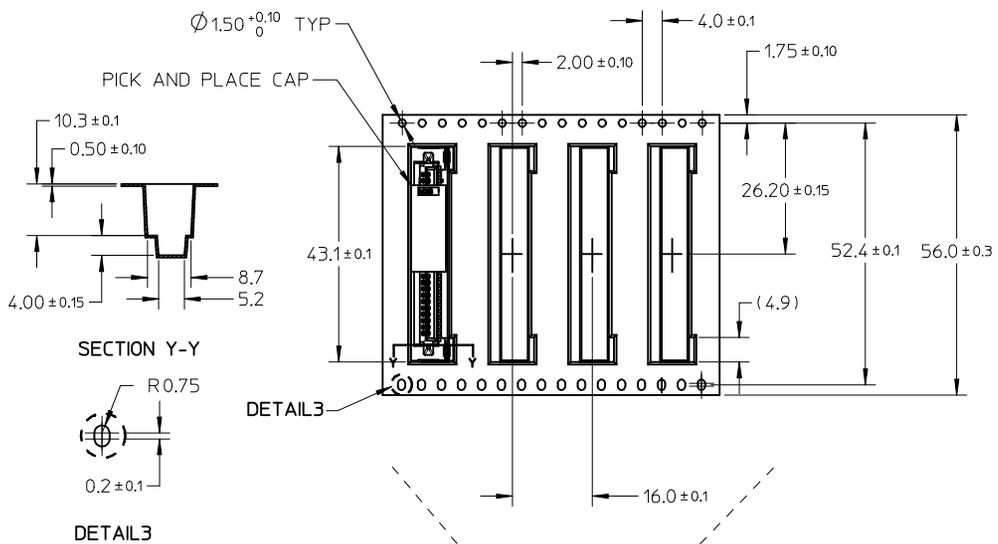
- NOTES:
- MATERIAL: LIQUID CRYSTALLINE POLYMER (LCP), GLASS FILLED, UL 94V-0
COLOR: BLACK
TERMINAL: COPPER ALLOY
 - PLATING:
CONTACT: $0.76 \mu\text{m}$ MIN. SELECTIVE GOLD OVER $1.27 \mu\text{m}$ MIN. NICKEL UNDERPLATE
SOLDERTAIL: $2.54 \mu\text{m}$ MIN. TIN OVER $1.27 \mu\text{m}$ MIN. NICKEL UNDERPLATE
 - MOLEX LOGO LOCATED APPROXIMATELY AS SHOWN
 - PACKAGING: SEE TABLE
 - DATE CODE TO BE LOCATED APPROXIMATELY AS SHOWN.
 - PRODUCT IS COMPLIANT TO RoHS DIRECTIVE WITH THE FOLLOWING BANNED SUBSTANCES - LEAD, MERCURY, CADMIUM, HEXAVALENT CHROMIUM, POLYBROMINATED BIPHENYLS AND POLYBROMINATED DIPHENYL ETHERS.
 - PRODUCT SPECIFICATION PS-87824-029 APPLIES.
 - MATES WITH: SFF-8482 PLUG
SATA PLUG SERIES: 87679, 87703, 87799

REVISED EC NO: S2009-0197 DRW:KHLIM CHKD:CGOH APPR:BOJOK 2008/09/15 2008/09/16 2008/09/16	QUALITY SYMBOLS 	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE	SCALE	DESIGN UNITS	THIRD ANGLE PROJECTION	
				MM ONLY	NTS	METRIC		
				DRAWN BY	DATE	TITLE		
				3 PLACES	± ---	± ---	SERIAL ATTACH SCSI STD HEIGHT BACKPLANE SMT RECEPT (WITH SOLDER TAB)	
		2 PLACES	± 0.20	± ---	MOLEX MOLEX INCORPORATED			
		1 PLACE	± ---	± ---	DOCUMENT NO. SD-87824-031			
		ANGULAR ± 3 °		MATERIAL NO. SEE TABLE		SHEET NO. 1 OF 4		
		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				

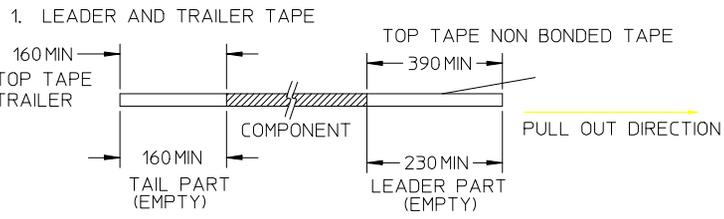


REVISED EC NO: S2009-0197 DRW:KHLIM 2008/09/15 CHKD:LG0H 2008/09/16 APPR:BOKOK 2008/09/16 A	QUALITY SYMBOLS $\nabla = 0$ $\varnothing = 0$	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE NTS	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION	
		4 PLACES \pm --- \pm ---	mm INCH	DRAWN BY KHLIM	DATE 2005/07/07	TITLE SERIAL ATTACH SCSI STD HEIGHT BACKPLANE SMT RECEPT (WITH SOLDER TAB)			
		3 PLACES \pm --- \pm ---		CHECKED BY SHFONG	DATE 2005/07/15	MOLEX INCORPORATED			
		2 PLACES ± 0.20 \pm --- 1 PLACE \pm --- \pm ---		APPROVED BY SKTOH	DATE 2005/07/15	MATERIAL NO. SEE TABLE	DOCUMENT NO. SD-87824-031	SHEET NO. 2 OF 4	
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		ANGULAR $\pm 3^\circ$		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION					

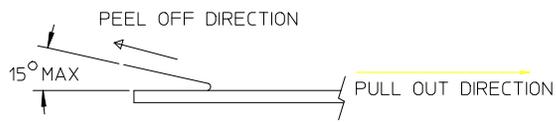
TAPE AND REEL PACKAGING



NOTES:

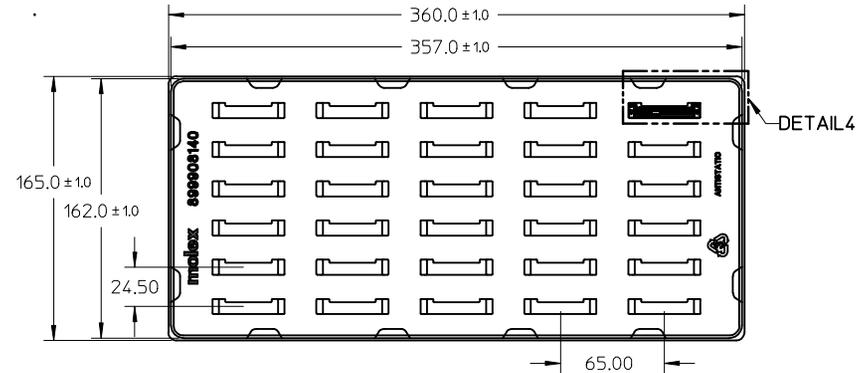


2. PEELING OFF FORCE OF THE TOP TAPE: 80gf MAX.
(PEELING DIRECTION AS SHOWN IN FOLLOWING FIGURE)

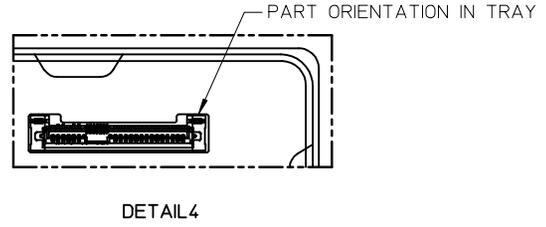


3. PACKAGING QTY: 350 PCS/REEL
4. PACKAGING STANDARD IS AS PER EIA-481.
5. CONNECTOR COMES WITH PICK AND PLACE CAP.

TRAY PACKAGING



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



REVISED EC NO: S2009-0197 DRW:KHLIM CHKD:CGOH APPR:BOKOK	DESCRIPTION REV	QUALITY SYMBOLS ▽=0 ◻=0	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE	SCALE	DESIGN UNITS	THIRD ANGLE PROJECTION	
			mm	INCH	MM ONLY	NTS	METRIC		
			4 PLACES	± ---	± ---	DRAWN BY	DATE		TITLE
			3 PLACES	± ---	± ---	KHLIM	2005/07/07		SERIAL ATTACH SCSI STD HEIGHT BACKPLANE SMT RECEPT (WITH SOLDER TAB)
			2 PLACES	± 0.20	± ---	CHECKED BY	DATE		
			1 PLACE	± ---	± ---	SHFONG	2005/07/15		
			ANGULAR ± 3 °		APPROVED BY	DATE	MOLEX INCORPORATED		
			DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SKTOH	2005/07/15	MATERIAL NO. SD-87824-031		
			SEE TABLE		DOCUMENT NO.		SHEET NO. 4 OF 4		
			SIZE A3		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION				

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<http://moschip.ru/get-element>

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Сотрудничество с глобальными дистрибьюторами электронных компонентов, предоставляет возможность заказывать и получать с международных складов практически любой перечень компонентов в оптимальные для Вас сроки.

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