

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number: [0878390011](#)
Status: **Active**
Description: 1.27mm (.050") Signal Pitch, 0.80mm (.031") SCSI Pitch, 1.27mm (.050") Power Pitch
SAS Receptacle, Vertical, Hybrid, with Straight Solder Tab, 3.00mm (.120") PCB
Thickness, Tray Packaging, with Cap, 29 Circuits, Lead free

Documents:
[3D Model](#) [Product Specification PS-87839-041 \(PDF\)](#)
[Drawing \(PDF\)](#) [RoHS Certificate of Compliance \(PDF\)](#)

Agency Certification

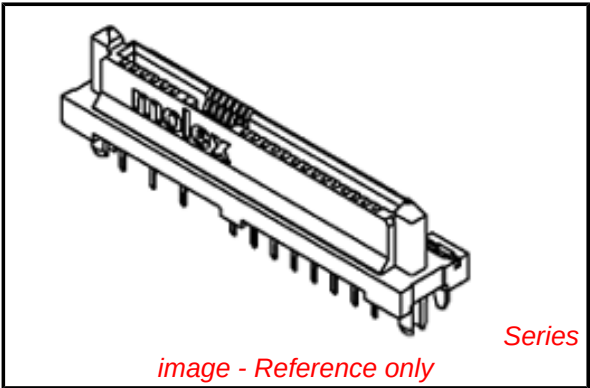
CSA LR19980
UL E29179

General

Product Family I/O Connectors
Series [87839](#)
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 Phosphor Bronze
Material - Plating Mating Gold, Tin
Material - Plating Termination Tin
Material - Resin High Temperature Thermoplastic
Number of Rows 2
Orientation Vertical
PC Tail Length (in) 0.118 In, 0.137 In
PC Tail Length (mm) 2.99 mm, 3.49 mm
PCB Locator Yes
PCB Retention Yes
PCB Thickness Recommended (in) 0.120 In
PCB Thickness Recommended (mm) 3.00 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



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
[87839Series](#)

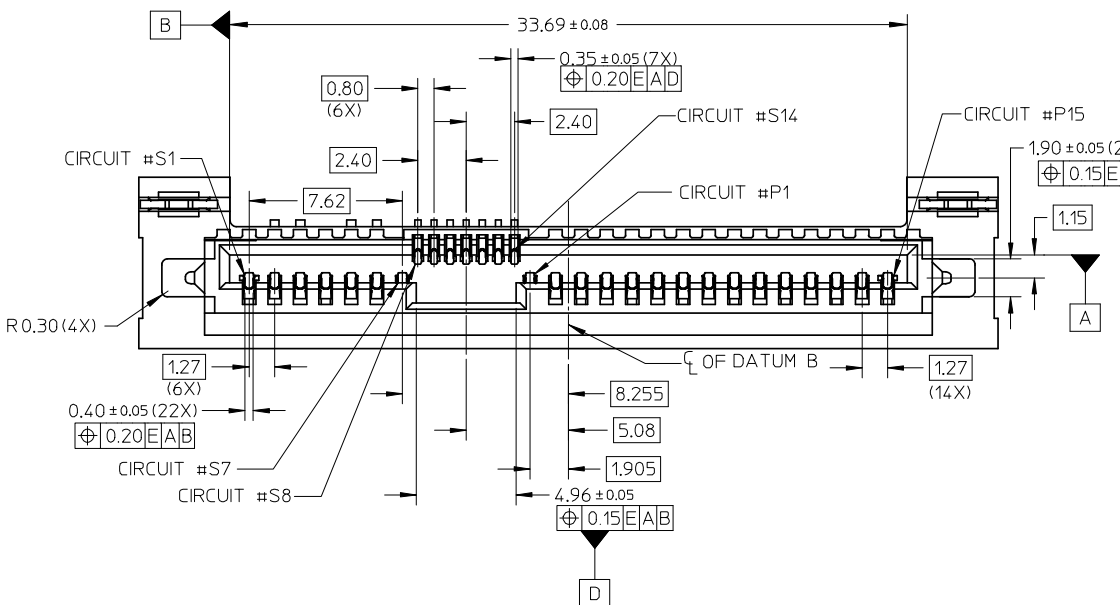
Mates With
Device Plugs [87679](#) , [87799](#) , [87703](#) , SFF
8482 Hard Disk Drive and Backplane Plug

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, Through Hole
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-87839-041
Sales Drawing	SD-87839-040

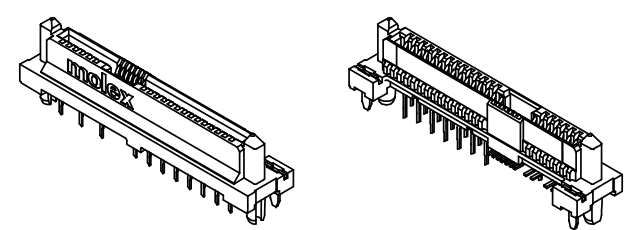
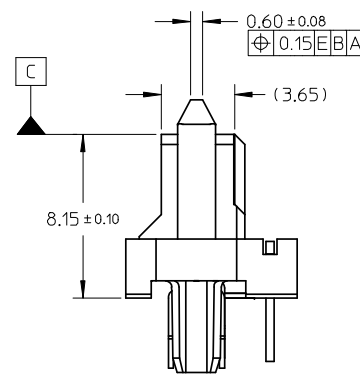
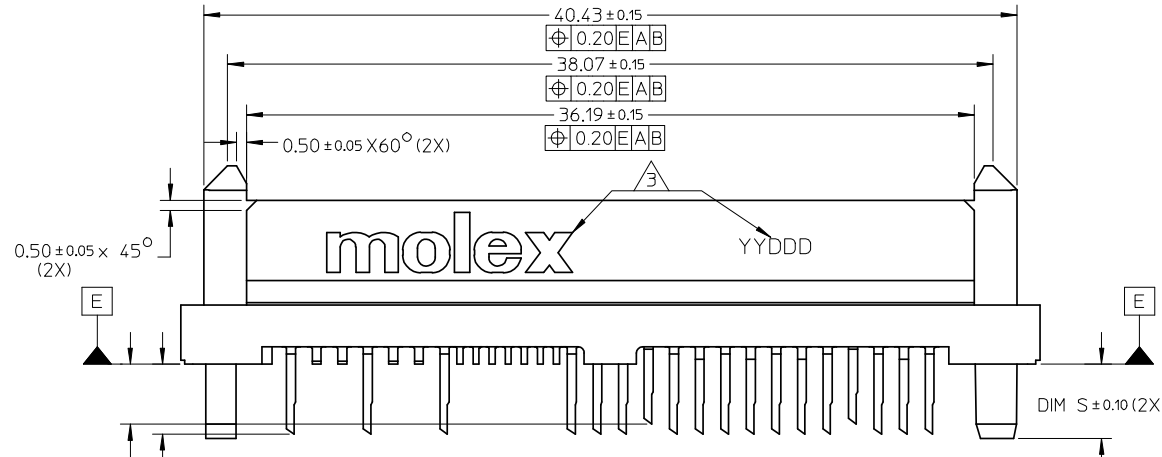
This document was generated on 04/09/2010

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

10 9 8 7 6 5 4 3 2 1



- NOTES:
1. MATERIAL: LIQUID CRYSTALLINE POLYMER (LCP), GLASS FILLED, UL 94V-0, COLOR: BLACK
TERMINAL: COPPER ALLOY
 2. PLATING:
CONTACT: 0.76µm MIN. SELECTIVE GOLD OVER 1.27µm MIN. NICKEL UNDERPLATE.
SOLDERTAIL: 2.54µm MIN. TIN OVER 1.27 µm MIN. NICKEL UNDERPLATE.
 3. MOLEX LOGO AND DATE CODE LOCATED APPROXIMATELY AS SHOWN.
 4. PACKAGING: SEE TABLE
 5. PRODUCT IS COMPLIANT TO RoHS DIRECTIVE WITH THE FOLLOWING BANNED SUBSTANCES - LEAD, MERCURY, CADMIUM, HEXAVALENT CHROMIUM, POLYBROMINATED BIPHENYLS AND POLYBROMINATED DIPHENYL ETHERS.
 6. PRODUCT SPECIFICATION PS-87839-041 APPLIES.
 7. MATES WITH: SFF-8482 PLUG
SATA PLUG SERIES: 87679, 87703, 87799



UPDATE DRAWING EC NO: S2008-0663 2008/02/14 DRWN:KLLIM 2008/02/15 CHKD:CGOH 2008/02/18 APPR:KCLING A6	DESCRIPTION REV	QUALITY SYMBOLS ▽=0 ▽C=0	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE NTS	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION		
				mm	INCH	DRAWN BY DKOH	DATE 2004/11/23	TITLE SERIAL ATTACH SCSI RECEPTACLE, HYBRID STANDARD HEIGHT MOLEX MOLEX INCORPORATED	DOCUMENT NO. SD-87839-040		SHEET NO. 1 OF 4
			4 PLACES	± ---	± ---	CHECKED BY KCLING	DATE 2004/12/01				
			3 PLACES	± ---	± ---						
			2 PLACES	± 0.20	± ---						
			1 PLACE	± ---	± ---	APPROVED BY SKTOH	DATE 2004/12/01				
			ANGULAR ± 3 °			MATERIAL NO. SEE TABLE					
			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			

9 8 7 6 5 4 3 2 1

10 9 8 7 6 5 4 3 2 1

F

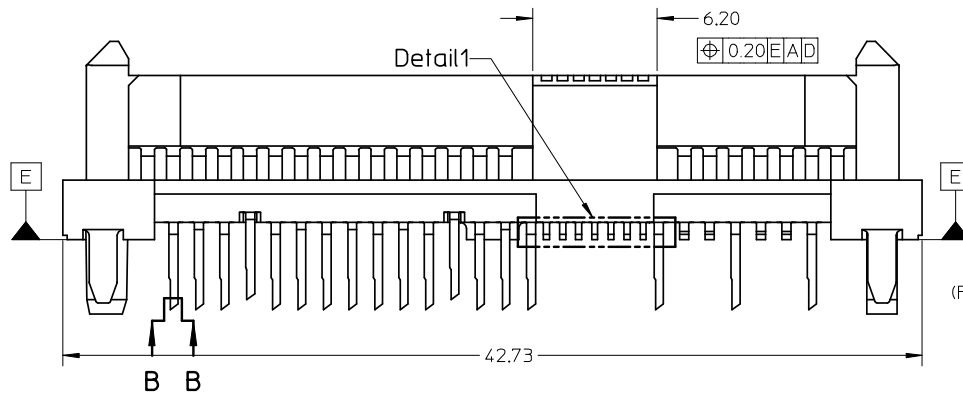
E

D

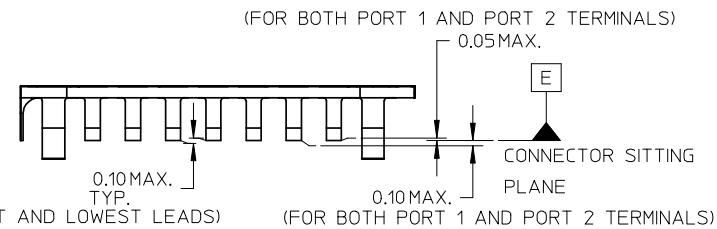
C

B

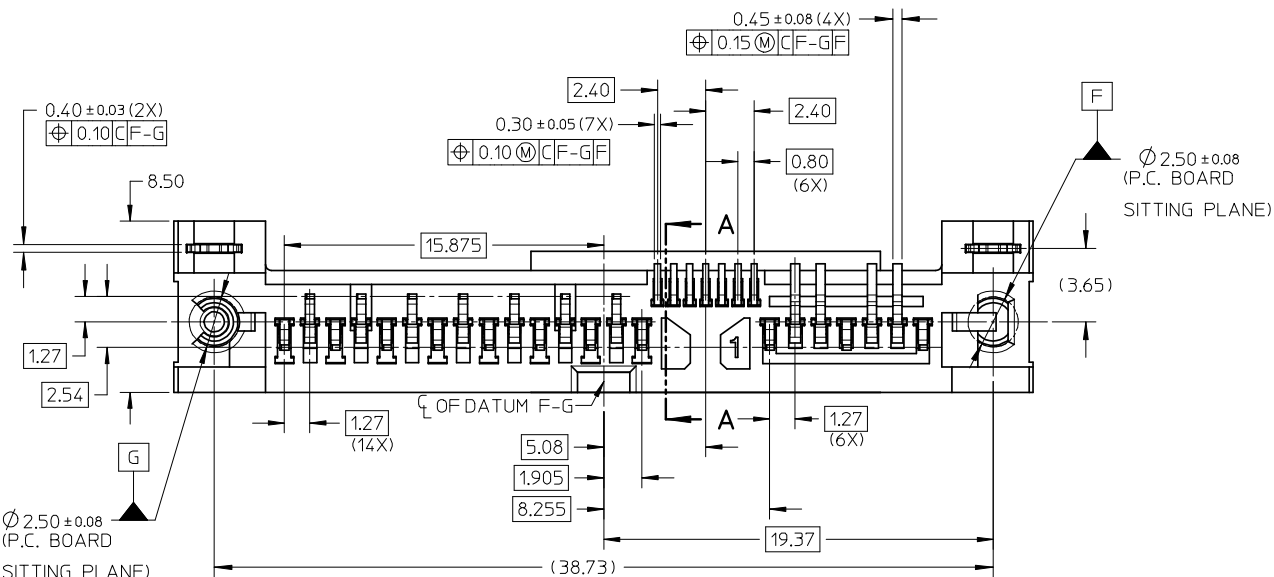
A



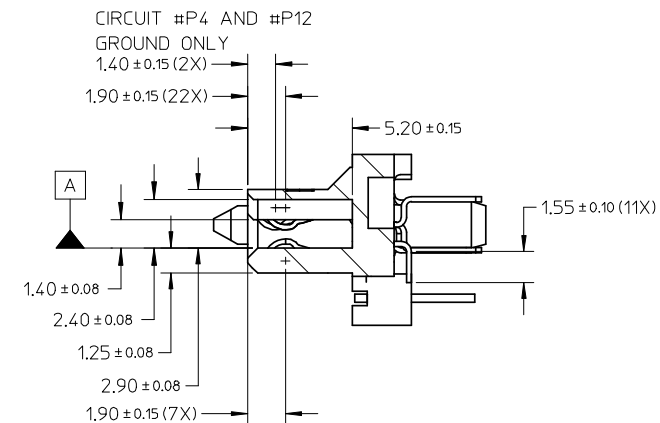
(BETWEEN HIGHEST AND LOWEST LEADS)
(FOR BOTH PORT 1 AND PORT 2 TERMINALS)



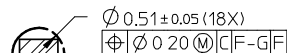
Detail1



$\Phi 2.50 \pm 0.08$
(P.C. BOARD
SITTING PLANE)



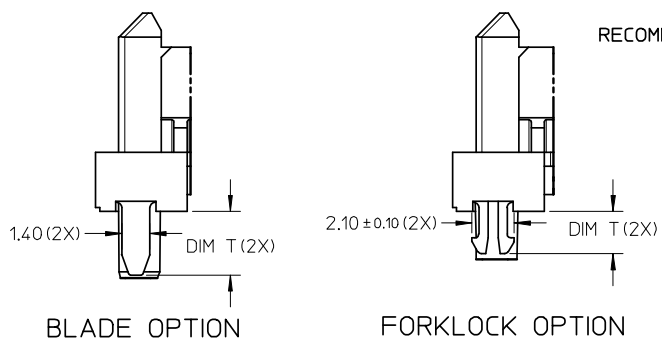
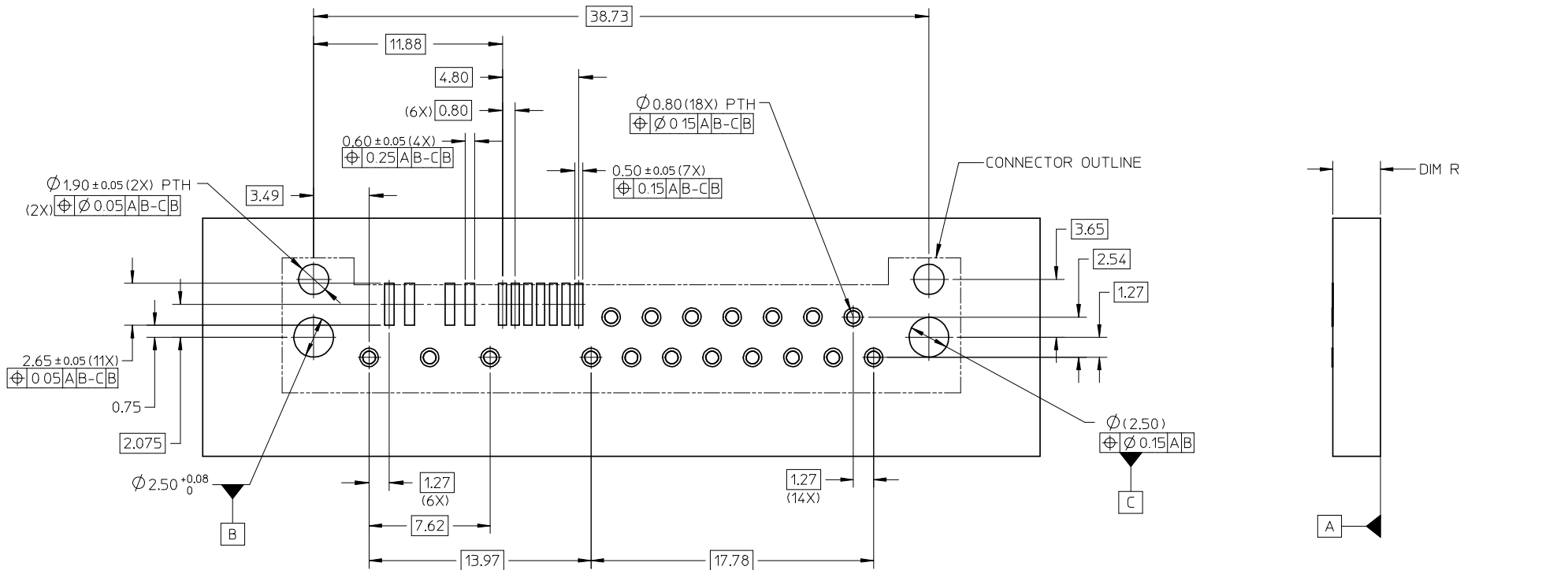
SECTION A-A



SECTION B-B

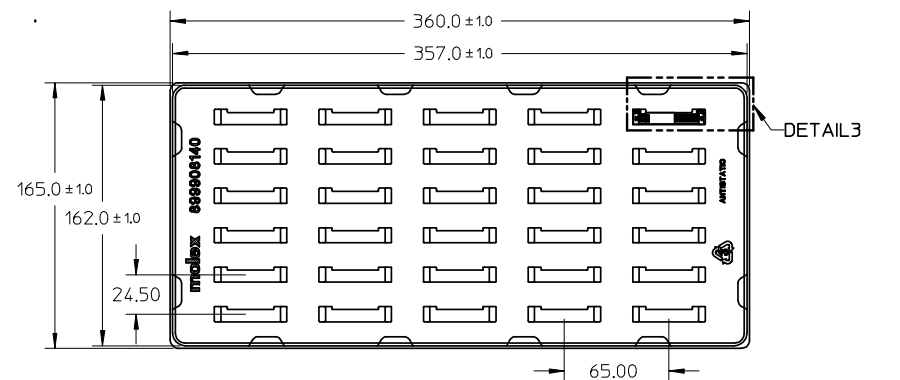
UPDATE DRAWING EC NO: S2008-0663 DRW:KHLIM CHKD:CGOH APPR:KCLING REV A6	QUALITY SYMBOLS ▽=0 ▽=0	DESCRIPTION	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE NTS	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION	
				mm	INCH	DRAWN BY DKOH	DATE 2004/11/23	TITLE SERIAL ATTACH SCSI RECEPTACLE, HYBRID STANDARD HEIGHT MOLEX INCORPORATED	DOCUMENT NO. SD-87839-040	SHEET NO. 2 OF 4
			4 PLACES	± ---	± ---	CHECKED BY KCLING	DATE 2004/12/01			
			3 PLACES	± ---	± ---					
			2 PLACES	± 0.20	± ---					
			1 PLACE	± ---	± ---	APPROVED BY SKTOH	DATE 2004/12/01			
			ANGULAR ± 3 °		MATERIAL NO.					
			DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SEE TABLE					
					SIZE A3		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
PART NO	PACKAGING	QUANTITY	HOLD DOWN	PICK AND PLACE CAP	DIM P (16X) (PORT 1 AND POWER PORT) (EXCLUDING P4 AND P12)	DIM Q (2X) (PORT P4 AND P12)	DIM R PCB THICKNESS	DIM S (2X) PEG HEIGHT	DIM T (2X) BLADE/FORKLOCK HEIGHT
87839-0011	TRAY	50/TRAY	BLADE	YES	3.49±0.15	2.99±0.15	3.00±0.10	3.70±0.10	3.12
87839-0019	TRAY	30/TRAY	BLADE	NO	3.49±0.15	2.99±0.15	3.00±0.10	3.70±0.10	3.12
87839-0017	TAPE AND REEL	350/REEL	BLADE	YES	3.49±0.15	2.99±0.15	3.00±0.10	3.70±0.10	3.12
87839-0018	TAPE AND REEL	350/REEL	BLADE	YES	2.36±0.15	2.36±0.15	2.36±0.10	2.00±0.10	2.36
87839-0039	TAPE AND REEL	350/REEL	FORKLOCK	YES	2.11±0.15	2.11±0.15	2.36±0.10	2.00±0.10	2.06



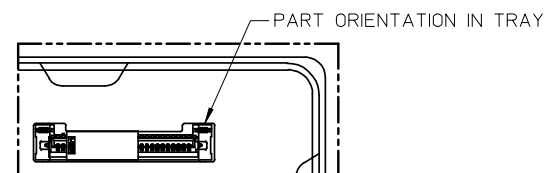
UPDATE DRAWING EC NO: S2008-0663 DRWN:KHLIM 2008/02/14 CHKD:CGH 2008/02/15 APPR:KCLING 2008/02/18	DESCRIPTION	QUALITY SYMBOLS ▽=0 ◻=0	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE NTS	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION			
			4 PLACES 3 PLACES 2 PLACES 1 PLACE	mm	INCH	DRAWN BY DKOH	DATE 2004/11/23	TITLE SERIAL ATTACH SCSI RECEPTACLE, HYBRID STANDARD HEIGHT	MOLEX INCORPORATED	SHEET NO. 3 OF 4		
				± ---	± ---	CHECKED BY KCLING	DATE 2004/12/01					
				± ---	± ---	APPROVED BY SKTOH	DATE 2004/12/01					
				± 0.20	± ---	MATERIAL NO.					DOCUMENT NO.	
				± ---	± ---	SEE TABLE					SD-87839-040	
			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			

TRAY PACKAGING



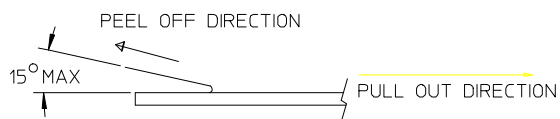
NOTES:

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



DETAIL3

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



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

UPDATE DRAWING EC NO: S2008-0663 DRAWN:KHLIM CHKD:CGH APPR:KCLING			2008/02/14 2008/02/15 2008/02/18	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 DRAWN BY DATE DKOH 2004/11/23 CHECKED BY DATE KCLING 2004/12/01 APPROVED BY DATE SKTOH 2004/12/01 MATERIAL NO. SEE TABLE	SCALE NTS TITLE SERIAL ATTACH SCSI RECEPTACLE, HYBRID STANDARD HEIGHT MOLEX MOLEX INCORPORATED DOCUMENT NO. SD-87839-040	DESIGN UNITS METRIC	 THIRD ANGLE PROJECTION	SHEET NO. 4 OF 4
	mm	INCH																										
4 PLACES	± ---	± ---																										
3 PLACES	± ---	± ---																										
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																										
A6				REV																								

Данный компонент на территории Российской Федерации

Вы можете приобрести в компании MosChip.

Для оперативного оформления запроса Вам необходимо перейти по данной ссылке:

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

Вы можете разместить у нас заказ для любого Вашего проекта, будь то серийное производство или разработка единичного прибора.

В нашем ассортименте представлены ведущие мировые производители активных и пассивных электронных компонентов.

Нашей специализацией является поставка электронной компонентной базы двойного назначения, продукции таких производителей как XILINX, Intel (ex.ALTERA), Vicor, Microchip, Texas Instruments, Analog Devices, Mini-Circuits, Amphenol, Glenair.

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

На всех этапах разработки и производства наши партнеры могут получить квалифицированную поддержку опытных инженеров.

Система менеджмента качества компании отвечает требованиям в соответствии с ГОСТ Р ИСО 9001, ГОСТ РВ 0015-002 и ЭС РД 009

Офис по работе с юридическими лицами:

105318, г.Москва, ул.Щербаковская д.3, офис 1107, 1118, ДЦ «Щербаковский»

Телефон: +7 495 668-12-70 (многоканальный)

Факс: +7 495 668-12-70 (доб.304)

E-mail: info@moschip.ru

Skype отдела продаж:

moschip.ru

moschip.ru_4

moschip.ru_6

moschip.ru_9