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Part Number: [0878390018](#)
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, 2.36mm (.093") PCB
Thickness, Embossed Tape 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

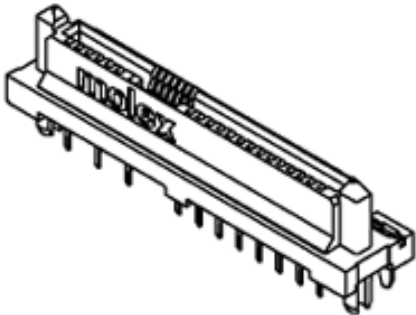
CSA LR19980
UL E29179

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) 0.093 In
PC Tail Length (mm) 2.36 mm
PCB Locator Yes
PCB Retention Yes
PCB Thickness Recommended (in) 0.093 In
PCB Thickness Recommended (mm) 2.36 mm
Packaging Type Embossed Tape on Reel
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



Series

image - Reference only

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)	Yes
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

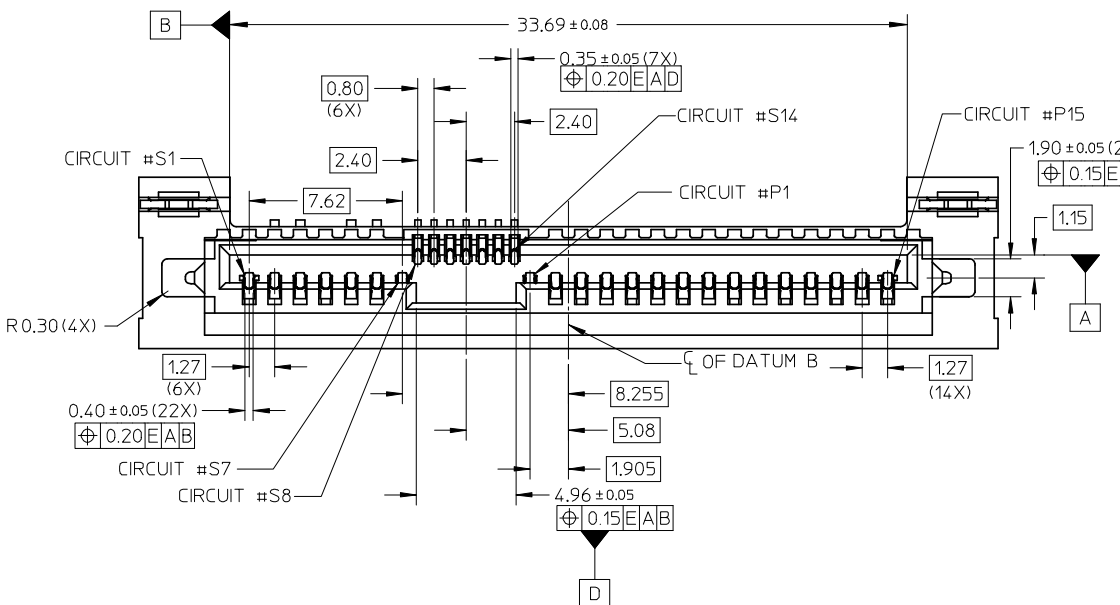
Reference - Drawing Numbers

Product Specification	PS-87839-041
Sales Drawing	SD-87839-040

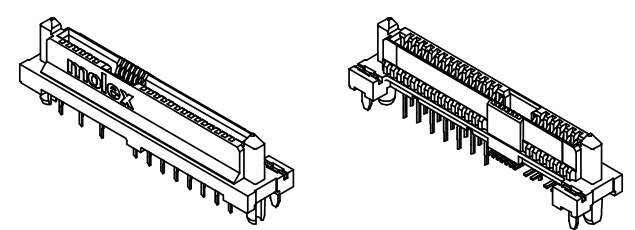
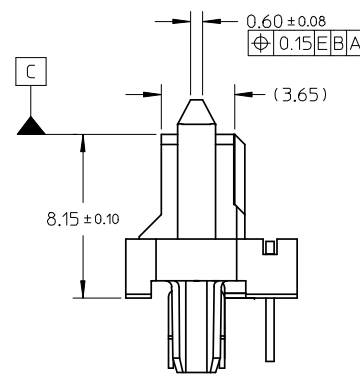
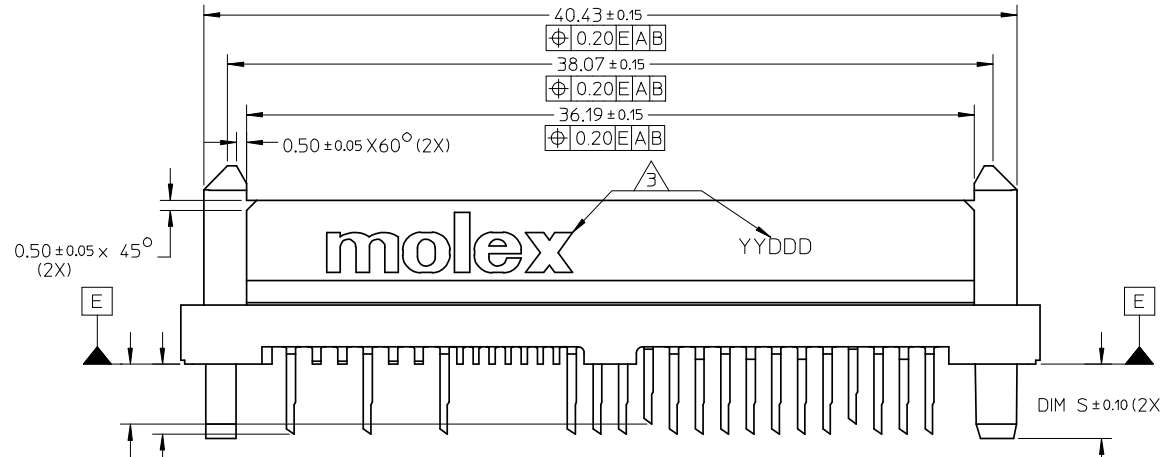
This document was generated on 04/09/2010

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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:CGH 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					
			4 PLACES		± ---	± ---	CHECKED BY KCLING	DATE 2004/12/01						
			3 PLACES		± ---	± ---	APPROVED BY SKTOH	DATE 2004/12/01						
			2 PLACES		± 0.20	± ---	MOLEX MOLEX INCORPORATED							
			1 PLACE		± ---	± ---								
			ANGULAR ± 3 °				MATERIAL NO. SEE TABLE		DOCUMENT NO. SD-87839-040		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							

9 8 7 6 5 4 3 2 1

10 9 8 7 6 5 4 3 2 1

F

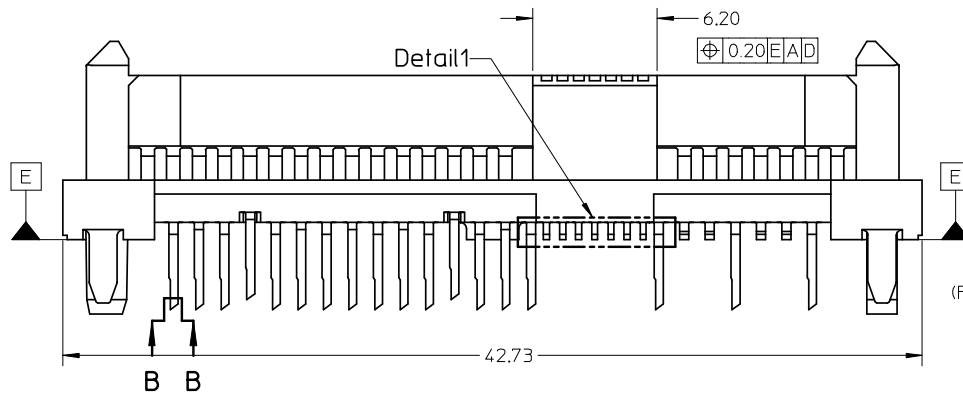
E

D

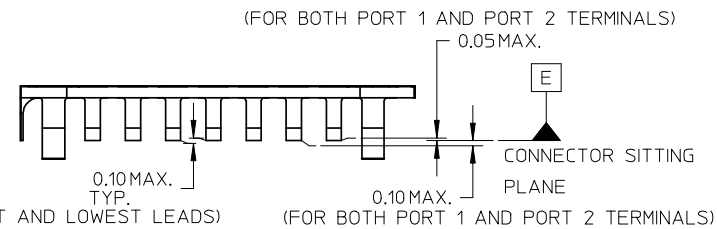
C

B

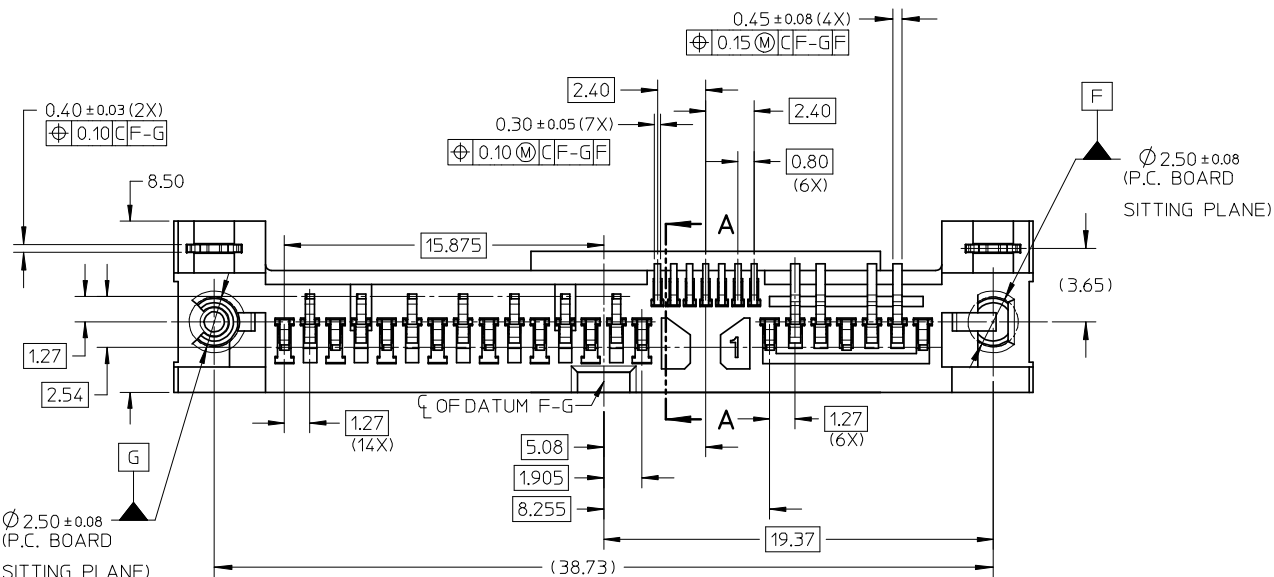
A



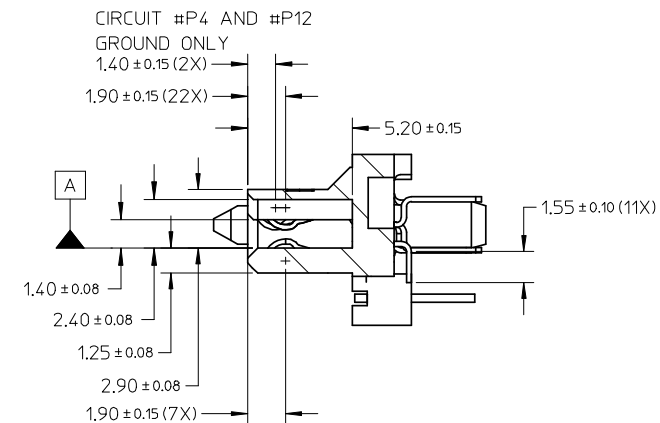
(BETWEEN HIGHEST AND LOWEST LEADS)
(FOR BOTH PORT 1 AND PORT 2 TERMINALS)



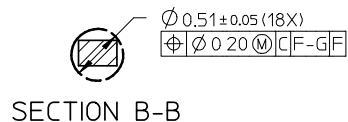
Detail1



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

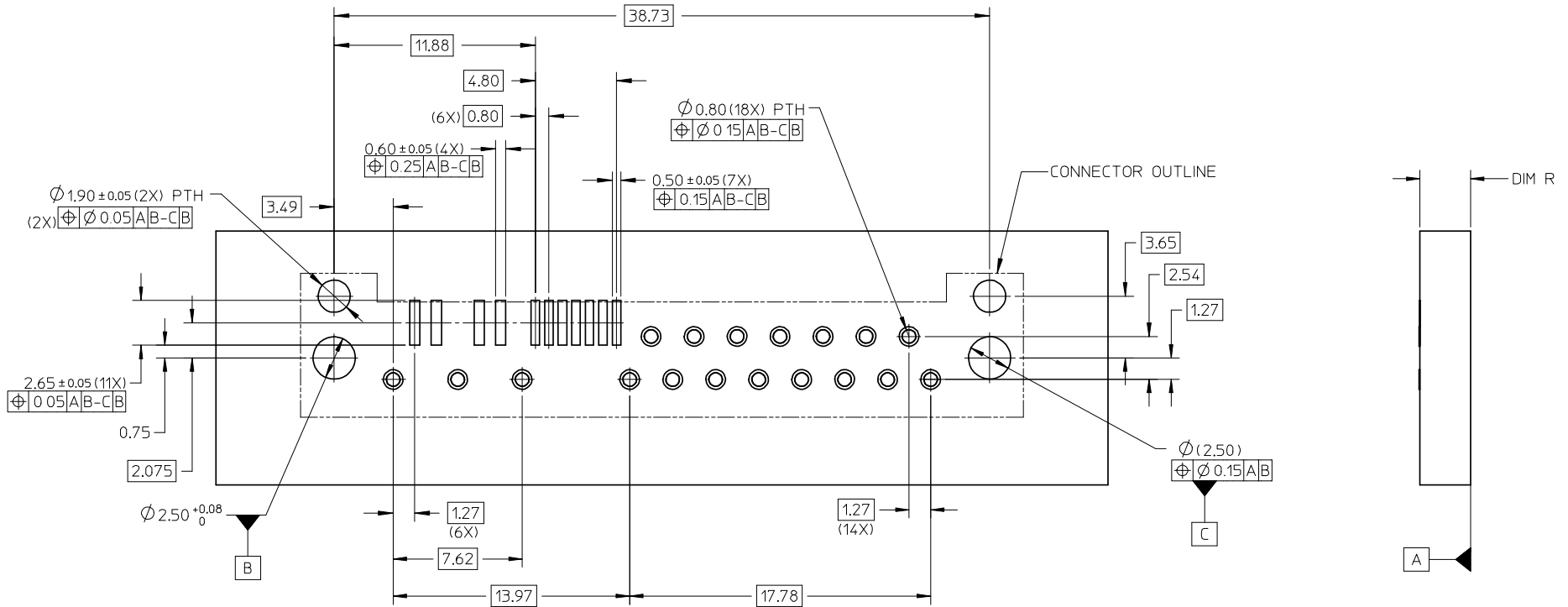


SECTION A-A

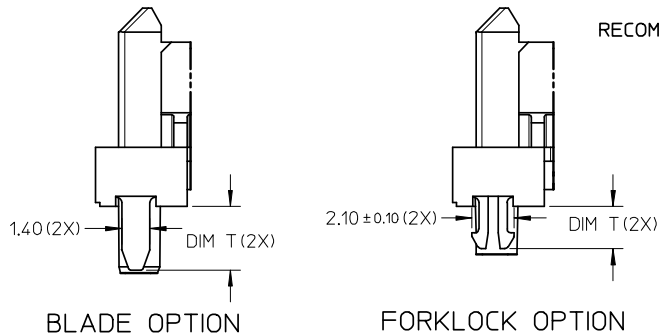


UPDATE DRAWING EC NO: S2008-0663 DRW:KHLIM CHKD:CGOH APPR:KCLING REV A6	QUALITY SYMBOLS ▽=0 ▽=0	DESCRIPTION	GENERAL TOLERANCES (UNLESS SPECIFIED)	DIMENSION STYLE		SCALE	DESIGN UNITS	THIRD ANGLE PROJECTION	
				MM ONLY		NTS	METRIC		
				mm	INCH	DRAWN BY DATE			TITLE SERIAL ATTACH SCSI RECEPTACLE, HYBRID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

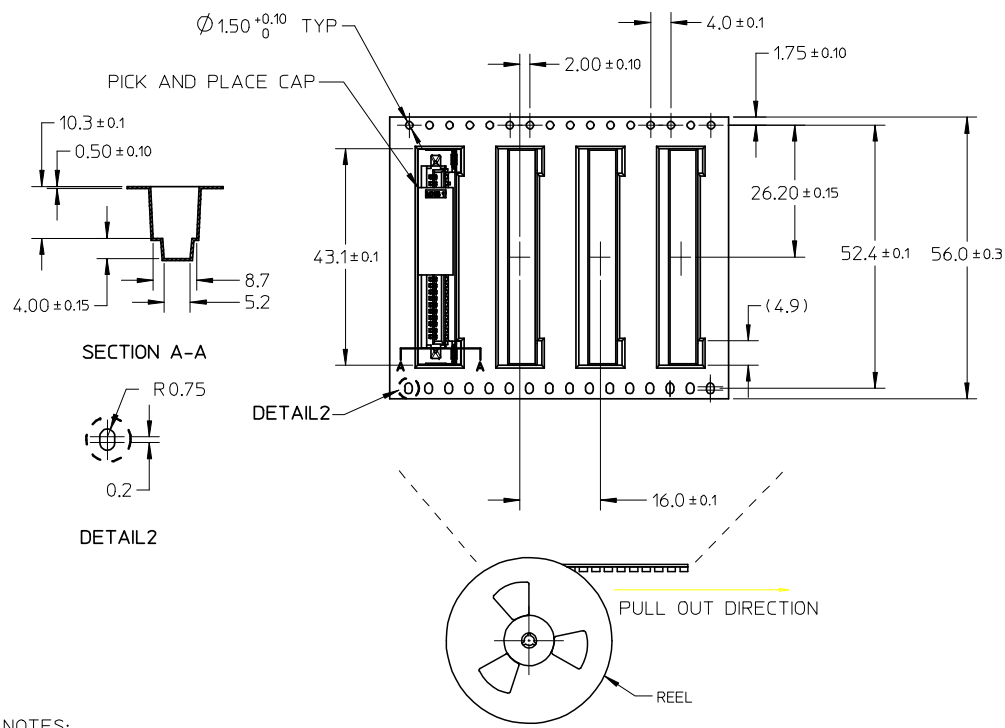


RECOMMENDED PCB LAYOUT
RECOMMENDED PCB THICKNESS DIM R±0.10



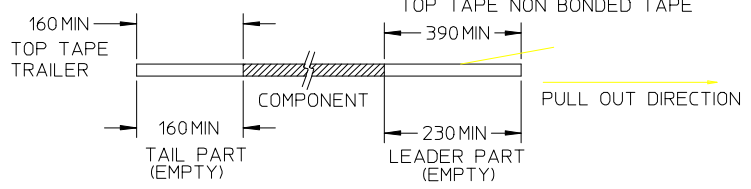
UPDATE DRAWING EC NO: S2008-0663 DRWN:KHLIM CHKD:GQH APPR:KCLING 2008/02/14 2008/02/15 2008/02/18	DESCRIPTION	QUALITY SYMBOLS ▽=0 ◻=0	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE NTS	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION			
				mm	INCH	DRAWN BY	DATE	TITLE SERIAL ATTACH SCSI RECEPTACLE, HYBRID STANDARD HEIGHT				
			4 PLACES	± ---	± ---	DKOH	2004/11/23					
			3 PLACES	± ---	± ---	CHECKED BY	DATE	MOLEX INCORPORATED				
			2 PLACES	± 0.20	± ---	KCLING	2004/12/01					
1 PLACE	± ---	± ---	APPROVED BY	DATE	DOCUMENT NO. SD-87839-040							
ANGULAR ± 3 °		SKTOH	2004/12/01	SHEET NO. 3 OF 4								
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		MATERIAL NO. SEE TABLE										
A6	REV				SIZE A3	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION						

TAPE AND REEL PACKAGING

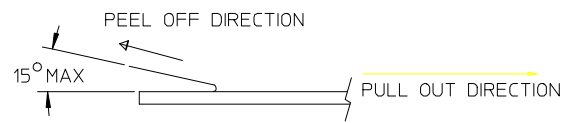


NOTES:

1. LEADER AND TRAILER TAPE



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

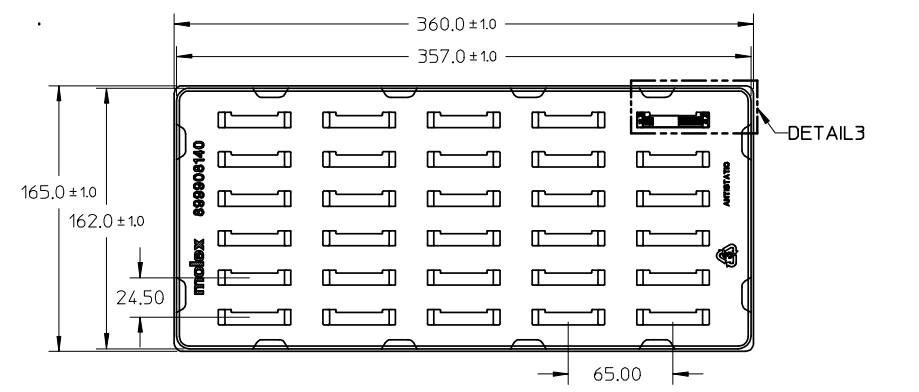


3. PACKAGING QTY IS: 350 PCS/REEL

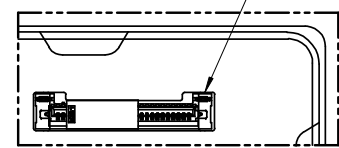
4. PACKAING STANDARD IS AS PER EIA-481.

5. CONNECTOR COMES WITH PICK AND PLACE CAP.

TRAY PACKAGING



PART ORIENTATION IN TRAY



DETAIL3

NOTES:

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

UPDATE DRAWING		EC NO: S2008-0663		2008/02/14		2008/02/15		2008/02/18		DESCRIPTION		QUALITY SYMBOLS		GENERAL TOLERANCES (UNLESS SPECIFIED)			DIMENSION STYLE			SCALE		DESIGN UNITS		THIRD ANGLE PROJECTION			
												▽=0		mm			INCH			DRAWN BY		DATE		TITLE			
												▽=0		4 PLACES ± ---			± ---			DKOH		2004/11/23		SERIAL ATTACH SCSI			
														3 PLACES ± ---			± ---			CHECKED BY		DATE		RECEPTACLE, HYBRID			
														2 PLACES ± 0.20			± ---			KCLING		2004/12/01		STANDARD HEIGHT			
														1 PLACE ± ---			± ---			APPROVED BY		DATE		MOLEX		MOLEX INCORPORATED	
														ANGULAR ± 3 °						SKTOH		2004/12/01					
														DRAFT WHERE APPLICABLE						MATERIAL NO.		DOCUMENT NO.		SHEET NO.			
														MUST REMAIN						SEE TABLE		SD-87839-040		4 OF 4			
														WITHIN DIMENSIONS						SIZE		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX					
																				A3		INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION					



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Наши преимущества:

- Оперативные поставки широкого спектра электронных компонентов отечественного и импортного производства напрямую от производителей и с крупнейших мировых складов;
- Поставка более 17-ти миллионов наименований электронных компонентов;
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
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- Подбор оптимального решения, техническое обоснование при выборе компонента;
- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



Как с нами связаться

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