

**PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION**

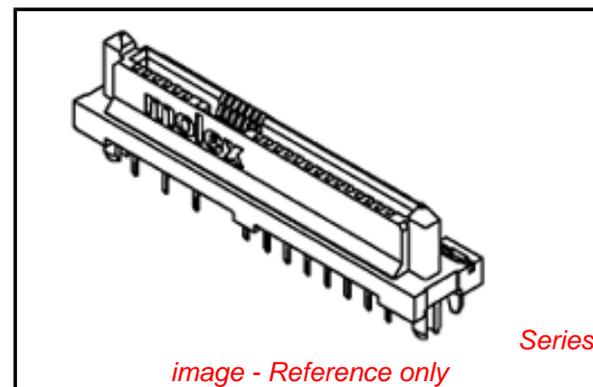
**Part Number:** [0878390039](#)  
**Status:** **Active**  
**Description:** 1.27mm (.050") Signal Pitch, 0.80mm (.031") SCSI Pitch, 1.27mm (.050") Power Pitch SAS Receptacle, Vertical, Hybrid, with Beveled Metal Pin, 2.36mm (.093") PCB Thickness, Embossed Tape Packaging, with Cap, 29 Circuits, Lead free

**Documents:**

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

**General**

Product Family	I/O Connectors
Series	<a href="#">87839</a>
Application	Board-to-Board
Comments	With pick and place cap
Component Type	Receptacle
Product Name	SAS
Type	N/A
<b>Physical</b>	
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	Phosphor Bronze
Material - Plating Mating	Gold
Material - Plating Termination	Tin
Material - Resin	High Temperature Thermoplastic
Number of Rows	2
Orientation	Vertical
PC Tail Length (in)	0.083 In
PC Tail Length (mm)	2.11 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
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



**EU RoHS**

**ELV and RoHS  
Compliant**  
**REACH SVHC**  
 Not Reviewed  
**Halogen-Free  
Status**

**China RoHS**



**Need more information on product  
environmental compliance?**

Email [productcompliance@molex.com](mailto: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

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

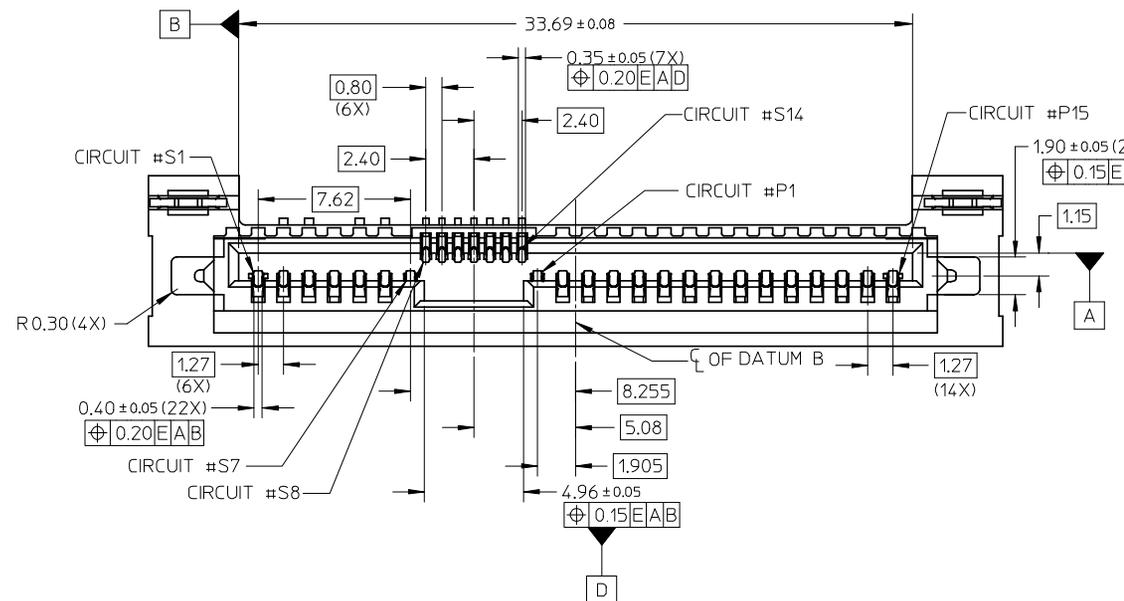
### **Material Info**

#### **Reference - Drawing Numbers**

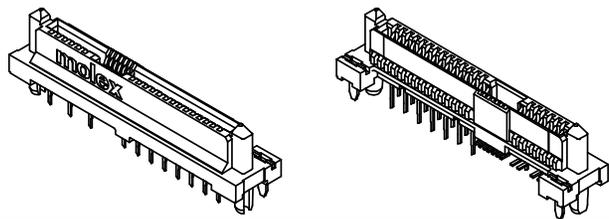
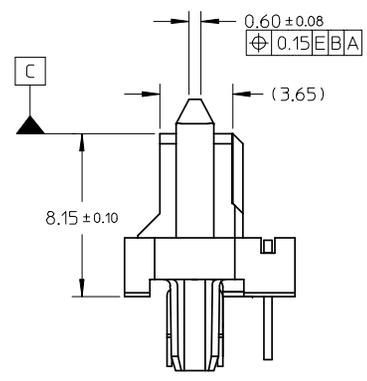
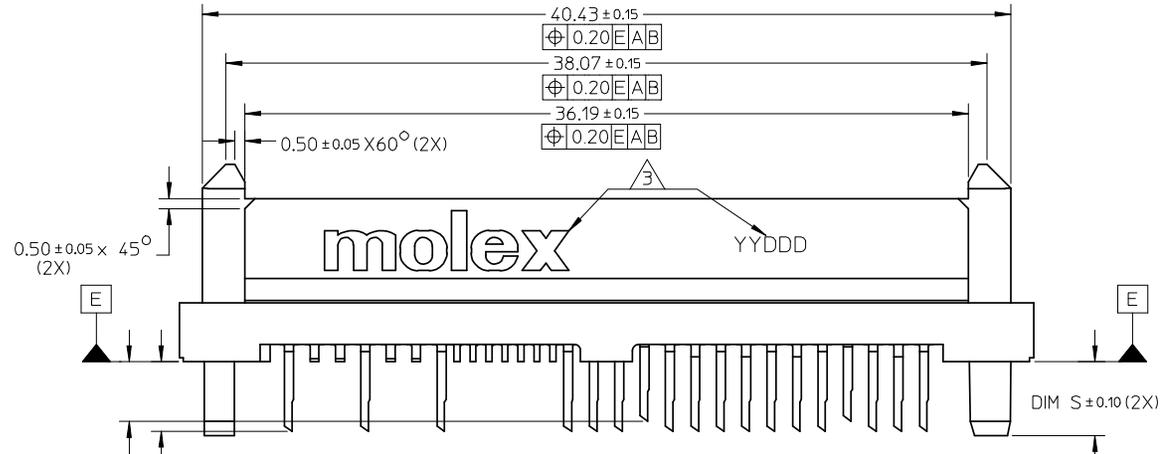
Product Specification	PS-87839-041
Sales Drawing	SD-87839-040

This document was generated on 04/09/2010

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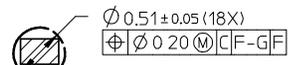
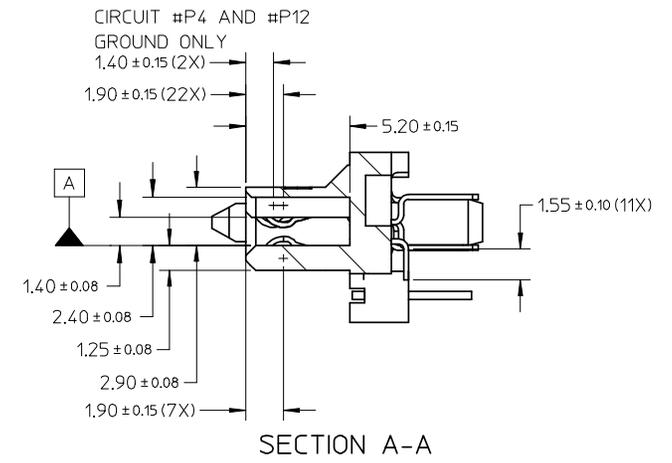
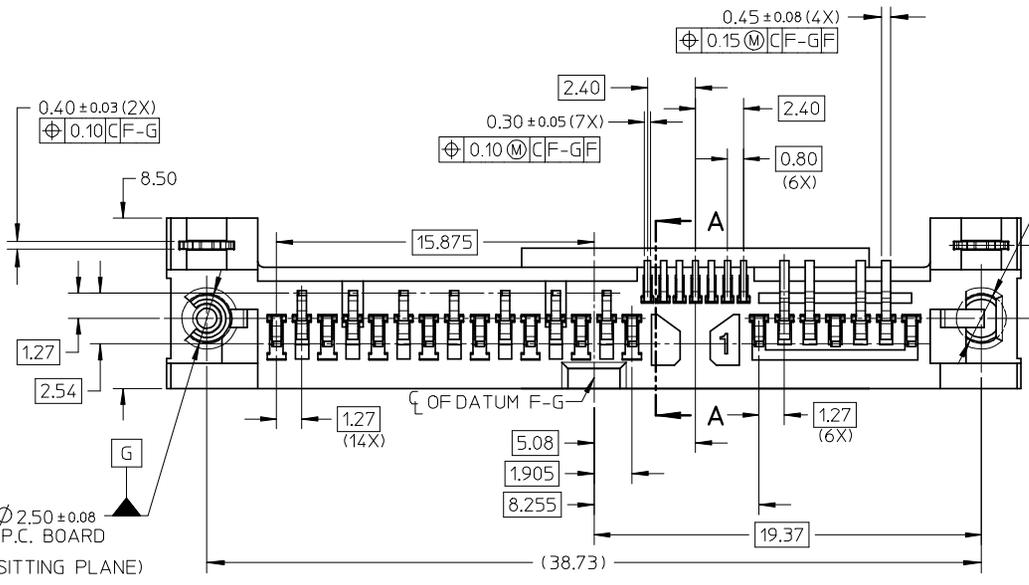
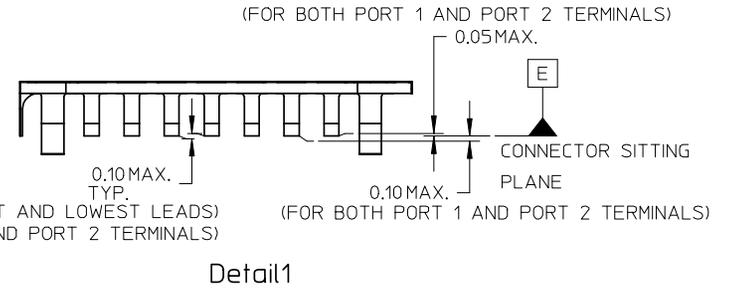
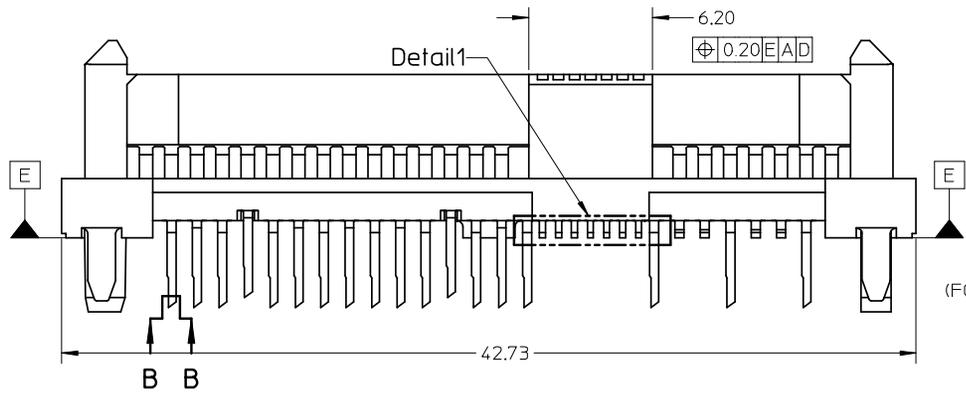


- NOTES:
- MATERIAL: LIQUID CRYSTALLINE POLYMER (LCP), GLASS FILLED, UL 94V-0, COLOR: BLACK  
TERMINAL: COPPER ALLOY
  - PLATING:  
CONTACT:  $0.76 \mu\text{m}$  MIN. SELECTIVE GOLD OVER  $1.27 \mu\text{m}$  MIN. NICKEL UNDERPLATE.  
SOLDERTAIL:  $2.54 \mu\text{m}$  MIN. TIN OVER  $1.27 \mu\text{m}$  MIN. NICKEL UNDERPLATE.
  - MOLEX LOGO AND DATE CODE LOCATED APPROXIMATELY AS SHOWN.
  - PACKAGING: SEE TABLE
  - 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-87839-041 APPLIES.
  - MATES WITH: SFF-8482 PLUG  
SATA PLUG SERIES: 87679, 87703, 87799



UPDATE DRAWING EC NO: S2008-0663 2008/02/14 DRW:KHLIM 2008/02/15 CHK:D:CGOH 2008/02/18 APPR:KCLING	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 ± 0.20 ± --- 1 PLACE ± --- ± --- ANGULAR ± 3°	mm INCH DRAWN BY DATE DKOH 2004/11/23 CHECKED BY DATE KCLING 2004/12/01 APPROVED BY DATE SKTOH 2004/12/01 MATERIAL NO.	TITLE SERIAL ATTACH SCSI RECEPTACLE, HYBRID STANDARD HEIGHT		MOLEX INCORPORATED		DOCUMENT NO. SD-87839-040	
A6	REV	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SEE TABLE		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



SECTION B-B

UPDATE DRAWING	2008/02/14	2008/02/15	2008/02/18
EC NO: S2008-0663	DRW:KHLIM	CHKD:CGOH	APPR:KCLING
DESCRIPTION	REV	DATE	DATE
A6			

QUALITY SYMBOLS	$\nabla=0$	$\sphericalangle=0$
	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS	

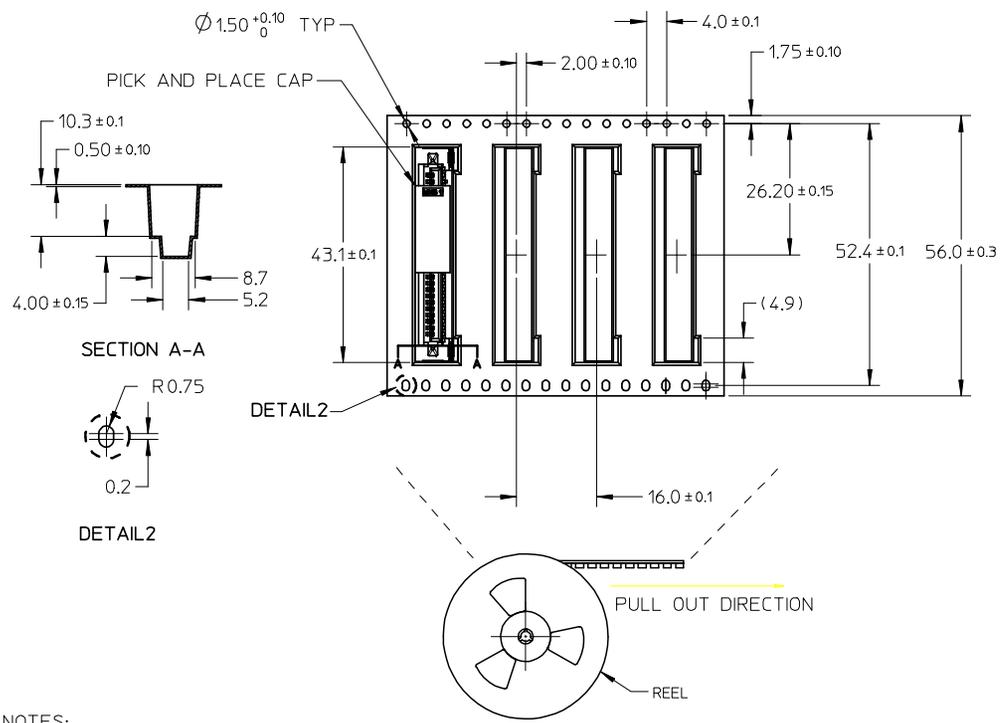
GENERAL TOLERANCES (UNLESS SPECIFIED)	
mm	INCH
4 PLACES	$\pm \text{---}$
3 PLACES	$\pm \text{---}$
2 PLACES	$\pm 0.20$
1 PLACE	$\pm \text{---}$
ANGULAR $\pm 3^\circ$	

DIMENSION STYLE	SCALE	DESIGN UNITS	THIRD ANGLE PROJECTION
MM ONLY	NTS	METRIC	
DRAWN BY	DATE	TITLE	
DKOH	2004/11/23	SERIAL ATTACH SCSI RECEPTACLE, HYBRID STANDARD HEIGHT	
CHECKED BY	DATE		
KCLING	2004/12/01		
APPROVED BY	DATE		
SKTOH	2004/12/01		
MATERIAL NO.	DOCUMENT NO.		
SEE TABLE	SD-87839-040		
SIZE	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION		SHEET NO.
A3			2 OF 4

9 8 7 6 5 4 3 2 1

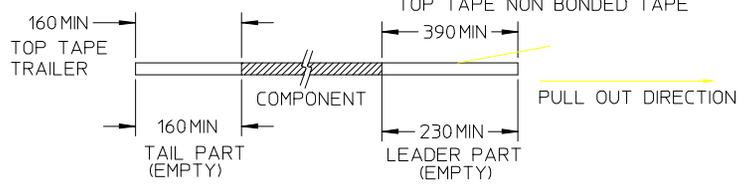


TAPE AND REEL PACKAGING

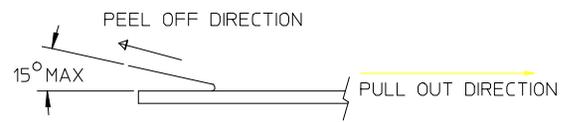


NOTES:

1. LEADER AND TRAILER TAPE

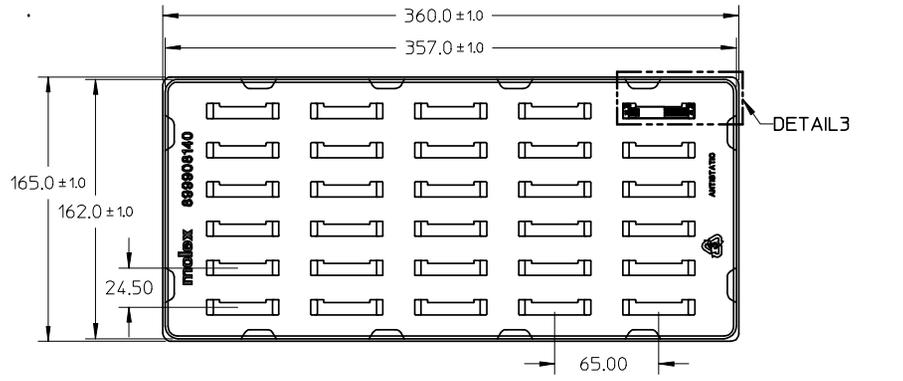


2. PEELING OFF FORCE OF THE TOP TAPE: 80gf MAX.  
(PEELING DIRECTION AS SHOWN IN FOLLOWING FIGURE)



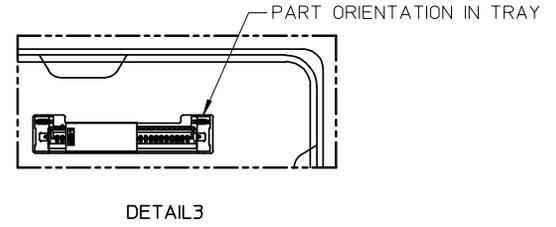
- 3. PACKAGING QTY IS: 350 PCS/REEL
- 4. PACKAING STANDARD IS AS PER EIA-481.
- 5. CONNECTOR COMES WITH PICK AND PLACE CAP.

TRAY PACKAGING



NOTES:

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



UPDATE DRAWING EC NO: S2008-0663 DRW:KHLIM CHK:D:GGH APPR:KCLING 2008/02/14 2008/02/15 2008/02/18	QUALITY SYMBOLS ▽=0 ◻=0	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE	SCALE	DESIGN UNITS	THIRD ANGLE PROJECTION
				MM ONLY	NTS	METRIC	
				DRAWN BY	DATE	TITLE	
				CHECKED BY	DATE		
				APPROVED BY	DATE		
		ANGULAR ± 3 °		MATERIAL NO.	DOCUMENT NO.		SHEET NO.
		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SEE TABLE	MOLEX INCORPORATED		4 OF 4
				THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION			