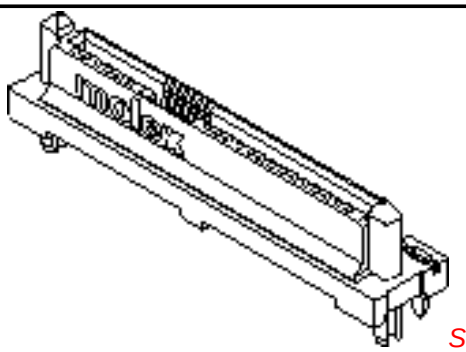
This document was generated on 04/09/2010

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number: 0878240003

Status: Active

Description: 1.27mm (.050") Signal Pitch, 0.80mm (.031") SCSI Pitch, 1.27mm (.050") Power Pitch SAS Receptacle, Vertical, Surface Mount, with Straight Solder Tab, 1.6mm (.062") PCB Thickness, 29 Circuits, with Cap, Tray, Leadfree



Series

image - Reference only

Documents:

3D Model
Drawing (PDF)
Product Specification PS-87824-029 (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	<LI>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	Copper Alloy
Material - Plating Mating	Gold, Tin
Material - Plating Termination	Tin
Material - Resin	High Temperature Thermoplastic
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

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
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

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

Electrical

Current - Maximum per Contact	1.5A
Shielded	No
Voltage - Maximum	30V

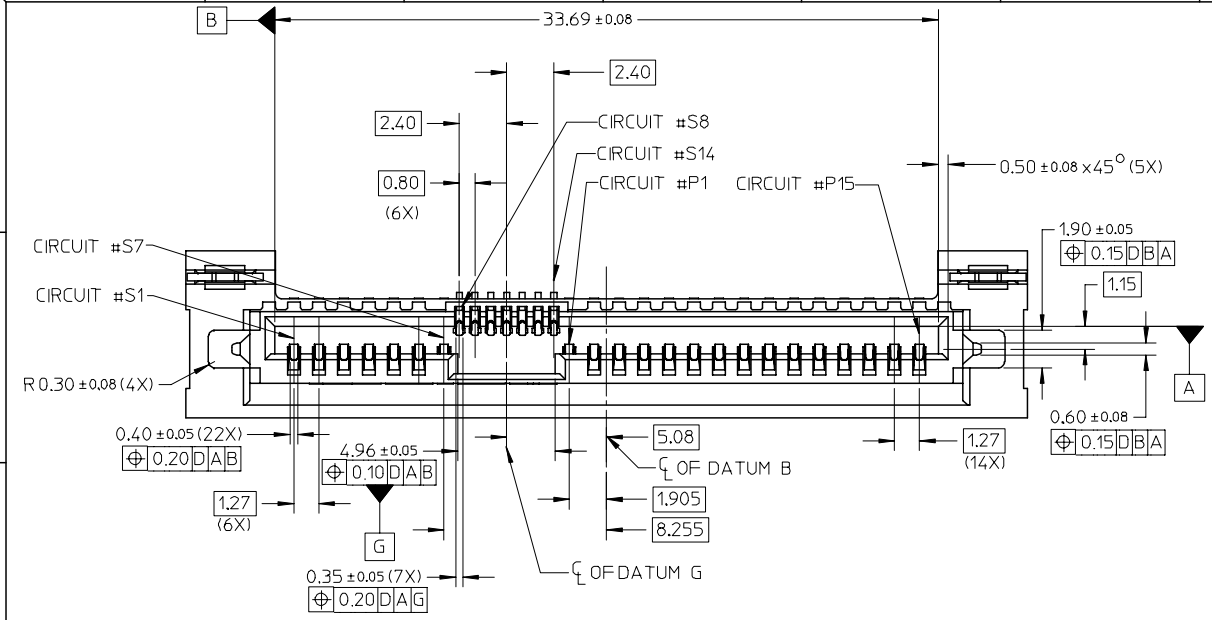
Solder Process Data

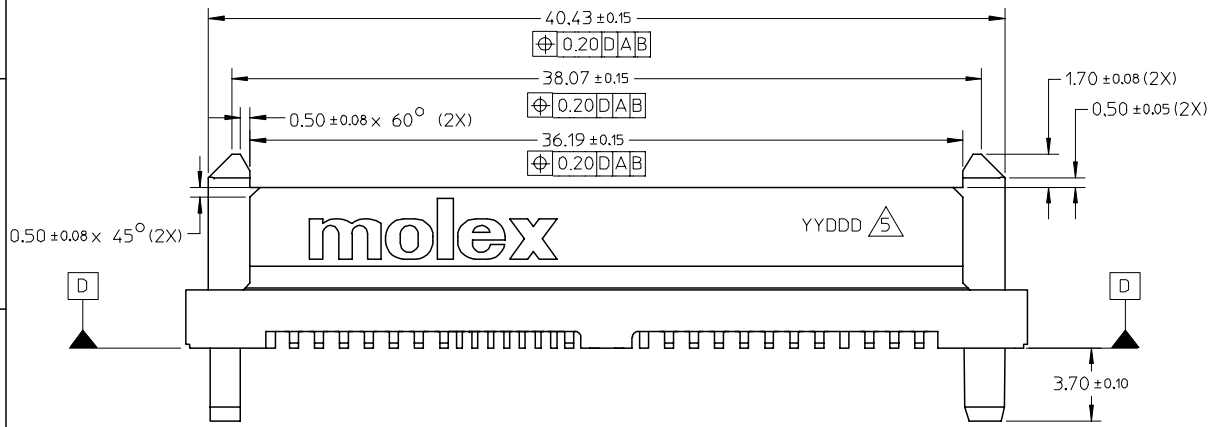
Duration at Max. Process Temperature (seconds)	10
Lead-free Process Capability	Reflow Capable (SMT only)
Max. Cycles at Max. Process Temperature	1
Process Temperature max. C	260

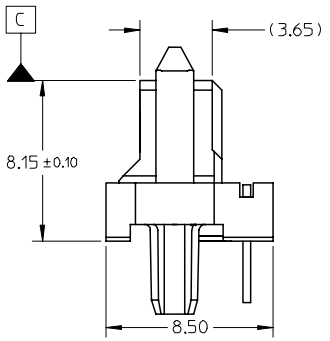
Material Info

Reference - Drawing Numbers

Product Specification	PS-87824-029
Sales Drawing	SD-87824-027







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: 2.54μ MIN. TIN OVER 1.27 μm MIN.
   NICKEL UNDERPLATE
3. MOLEX LOGO LOCATED APPROXIMATELY AS SHOWN
4. PACKAGING: SEE TABLE
5. DATE CODE TO BE LOCATED APPROXIMATELY AS SHOWN.
6. PRODUCT IS COMPLIANT TO RoHS DIRECTIVE WITH THE FOLLOWING BANNED SUBSTANCES - LEAD, MERCURY, CADMIUM, HEXAVALENT CHROMIUM, POLYBROMINATED BIPHENYLS AND POLYBROMINATED DIPHENYL ETHERS.
7. PRODUCT SPECIFICATION PS-87824-029 APPLIES.
8. MATES WITH: SFF-8482 PLUG
   SATA PLUG SERIES: 87679, 87703, 87799

NEW PKG OPTION	2005/10/26
EC NO: S2006-0334	2005/10/27
DRWN:KHLIM	2005/10/28
CHKD:SHONG	
APPR:KCLING	
DESCRIPTION	
REV	

A4

QUALITY SYMBOLS
▼=0
▽=0

GENERAL TOLERANCES (UNLESS SPECIFIED)

	mm	INCH
4 PLACES	± ---	± ---
3 PLACES	± ---	± ---
2 PLACES	± 0.20	± ---
1 PLACE	± ---	± ---
ANGULAR ± 3 °		

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

DIMENSION STYLE	SCALE	DESIGN UNITS	
MM ONLY	NTS	METRIC	THIRD ANGLE PROJECTION

DRAWN BY	DATE
KHLIM	2004/10/12
CHECKED BY	DATE
KCLING	2004/11/25
APPROVED BY	DATE
SKTOH	2004/11/26

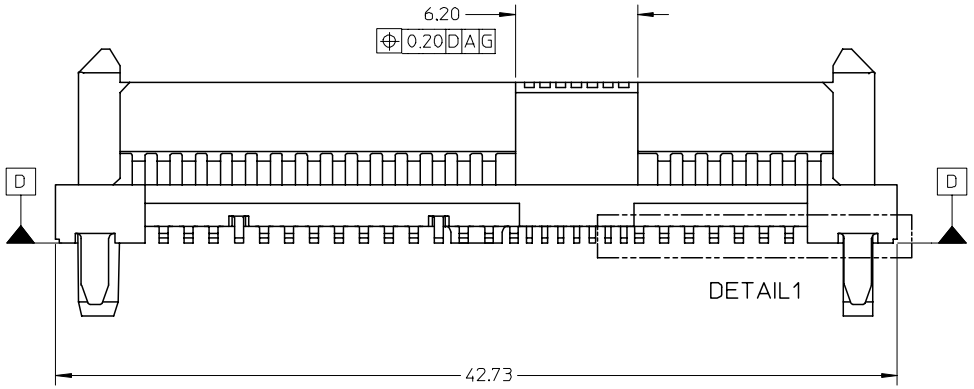
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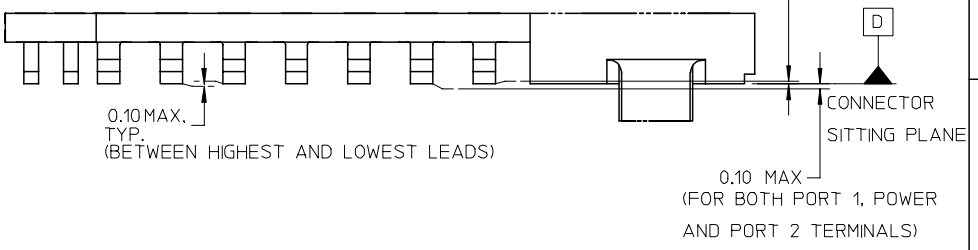
MOLEX INCORPORATED

MATERIAL NO.	DOCUMENT NO.	SHEET NO.
SEE TABLE	SD-87824-027	1 OF 4

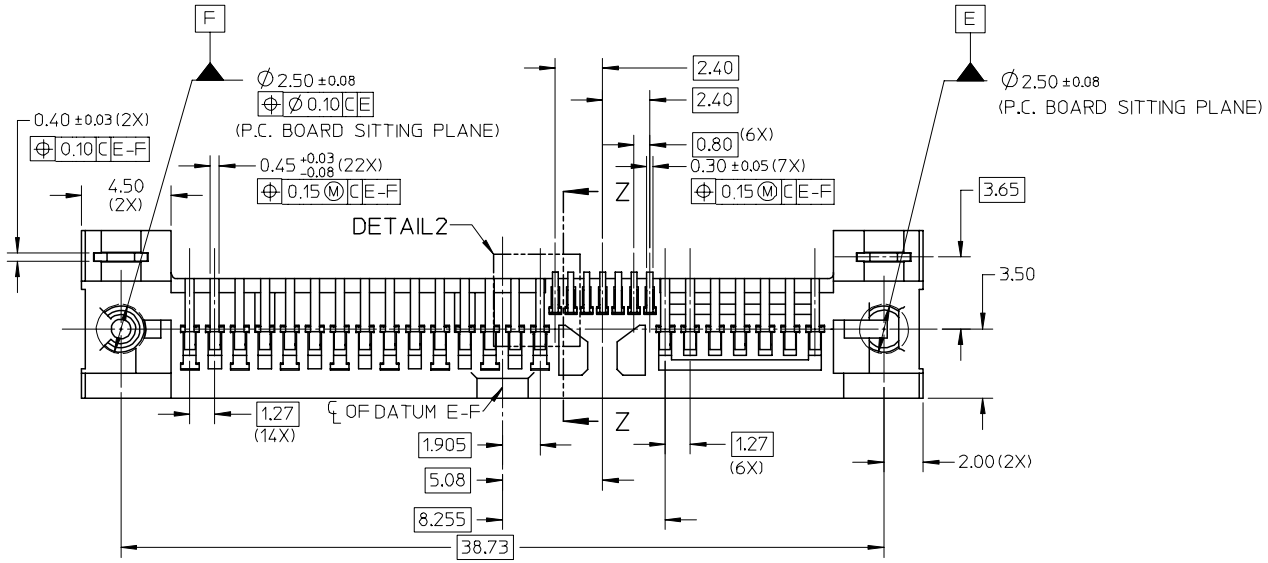
SIZE A3

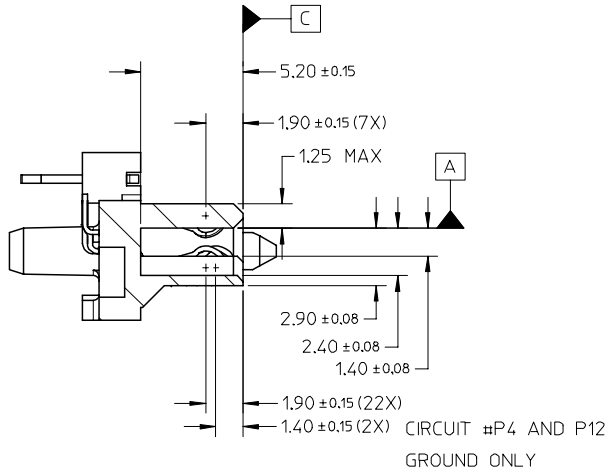
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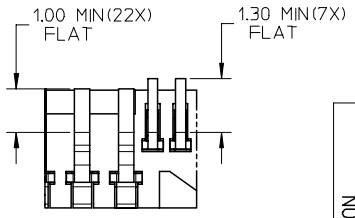


DETAIL 1





SECTION Z-Z



DETAIL 2

NEW PKG OPTION	2005/10/26	DESCRIPTION	
EC NO: S2006-0334	2005/10/27	REV	
DRWN:KHLIM	2005/10/28		
CHKD:SHONG			
APPR:KCLING			
A4			

QUALITY SYMBOLS
▼=0
▽C=0

GENERAL TOLERANCES (UNLESS SPECIFIED)

	mm	INCH
4 PLACES	± ---	± ---
3 PLACES	± ---	± ---
2 PLACES	± 0.20	± ---
1 PLACE	± ---	± ---
ANGULAR ± 3 °		

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

DIMENSION STYLE	SCALE	DESIGN UNITS	THIRD ANGLE PROJECTION
MM ONLY	NTS	METRIC	

DRAWN BY: KHLIM	DATE: 2004/10/12
CHECKED BY: KCLING	DATE: 2004/11/25
APPROVED BY: SKTOH	DATE: 2004/11/26

TITLE: SERIAL ATTACH SCSI STD HEIGHT BACKPLANE SMT RECEPT (WITH BLADE)

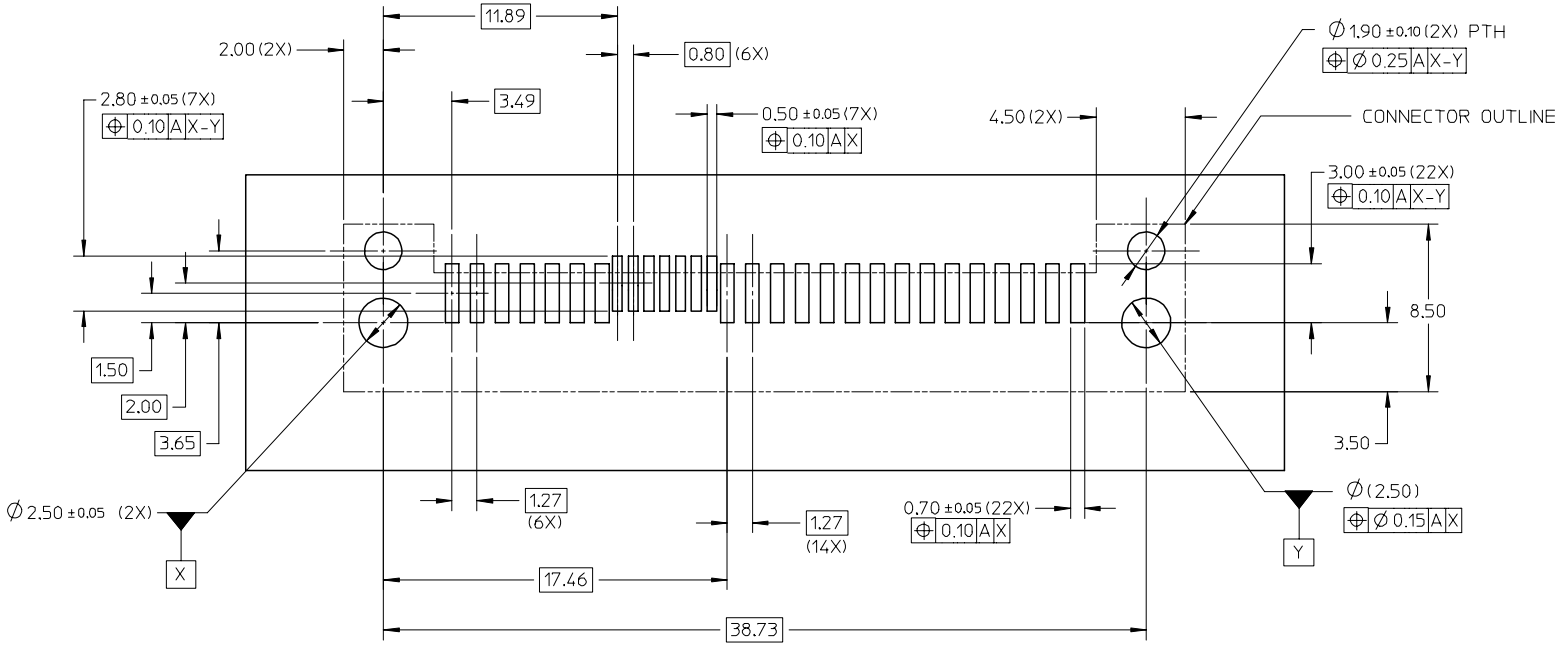
MOLEX INCORPORATED

MATERIAL NO.	DOCUMENT NO.	SHEET NO.
SEE TABLE	SD-87824-027	2 OF 4

SIZE A3

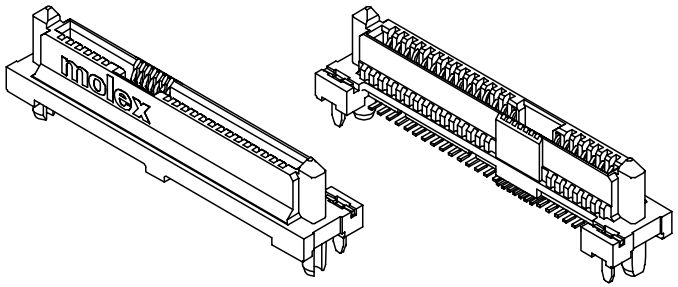
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PART NO	PACKAGING	QUANTITY	PICK AND PLACE CAP
87824-0003	TRAY	50/TRAY	YES
87824-0005	TRAY	30/TRAY	NO
87824-0007	TAPE AND REEL	350/REEL	YES



RECOMMENDED PCB LAYOUT

THICKNESS: 1.60±0.10



NEW PKG OPTION
EC NO: S2006-0334 2005/10/26
DRWN:KHLIM 2005/10/27
CHKD:SHONG 2005/10/28
APPR:KCLING
DESCRIPTION

A4

REV

QUALITY SYMBOLS
▼=0
▽C=0

GENERAL TOLERANCES (UNLESS SPECIFIED)

	mm	INCH
4 PLACES	± ---	± ---
3 PLACES	± ---	± ---
2 PLACES	± 0.20	± ---
1 PLACE	± ---	± ---
ANGULAR ± 3 °		

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

DIMENSION STYLE: MM ONLY
SCALE: NTS
DESIGN UNITS: METRIC
THIRD ANGLE PROJECTION

DRAWN BY: KHLIM DATE: 2004/10/12
CHECKED BY: KCLING DATE: 2004/11/25
APPROVED BY: SKTOH DATE: 2004/11/26

TITLE: SERIAL ATTACH SCSI STD HEIGHT BACKPLANE SMT RECEPT (WITH BLADE)

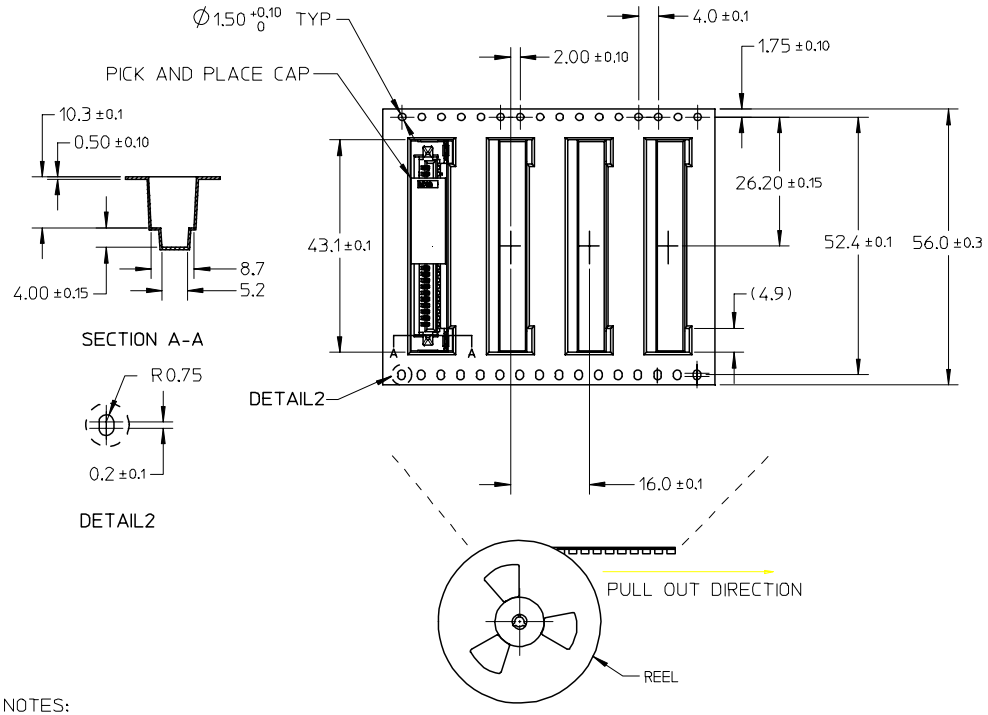
molex MOLEX INCORPORATED

MATERIAL NO.: SEE TABLE
DOCUMENT NO.: SD-87824-027
SHEET NO.: 3 OF 4

SIZE A3

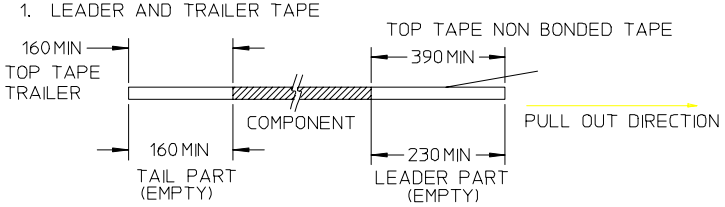
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TAPE AND REEL PACKAGING

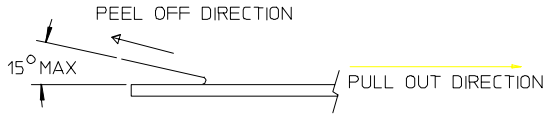


NOTES:

1. LEADER AND TRAILER TAPE

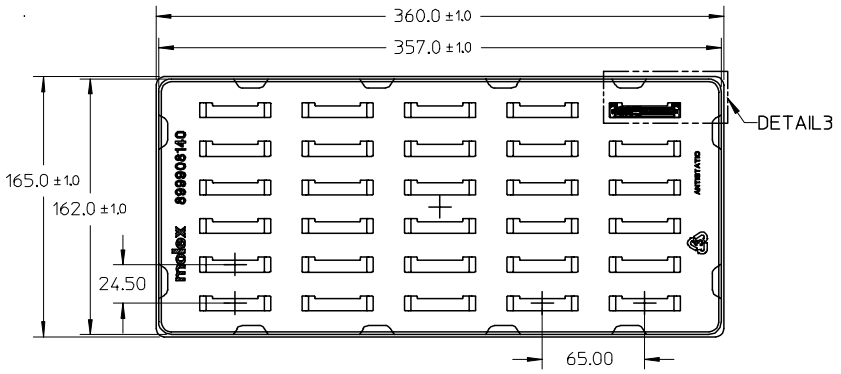


2. PEELING OFF FORCE OF THE TOP TAPE: 80gf MAX.
(PEELING DIRECTION AS SHOWN IN FOLLOWING FIGURE)

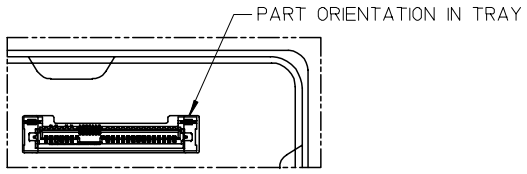


3. PACKAGING QTY: 350 PCS/REEL
4. PACKAGING STANDARD IS AS PER EIA-481.
5. CONNECTOR COMES WITH PICK AND PLACE CAP.

TRAY PACKAGING



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



DETAIL3

NEW PKG OPTION	DESCRIPTION	REV
EC NO: S2006-0334	2005/10/26	
DRWN:KHLIM	2005/10/27	
CH'KD:SHONG	2005/10/28	
APPR:KCLING		

A4

QUALITY SYMBOLS
▼=0
▽=0

GENERAL TOLERANCES (UNLESS SPECIFIED)

	mm	INCH
4 PLACES	± ---	± ---
3 PLACES	± ---	± ---
2 PLACES	± 0.20	± ---
1 PLACE	± ---	± ---

ANGULAR ± 3 °

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

DIMENSION STYLE	MM ONLY
SCALE	NTS
DESIGN UNITS	METRIC
	THIRD ANGLE PROJECTION
DRAWN BY	KHLIM
DATE	2004/10/12
CHECKED BY	KCLING
DATE	2004/11/25
APPROVED BY	SKTOH
DATE	2004/11/26
MATERIAL NO.	SEE TABLE
TITLE	SERIAL ATTACH SCSI STD HEIGHT BACKPLANE SMT RECEPT (WITH BLADE)
	MOLEX INCORPORATED
DOCUMENT NO.	SD-87824-027
SHEET NO.	4 OF 4
SIZE	A3

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