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Part Number: [0878390017](#)
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, 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

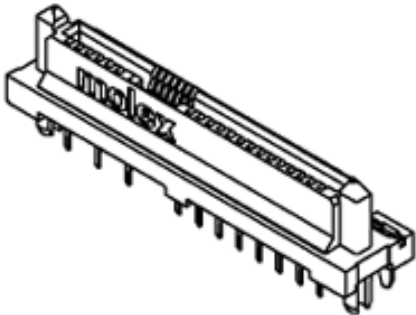
CSA LR19980
UL E29179

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) 0.118 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 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](#)

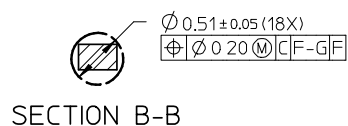
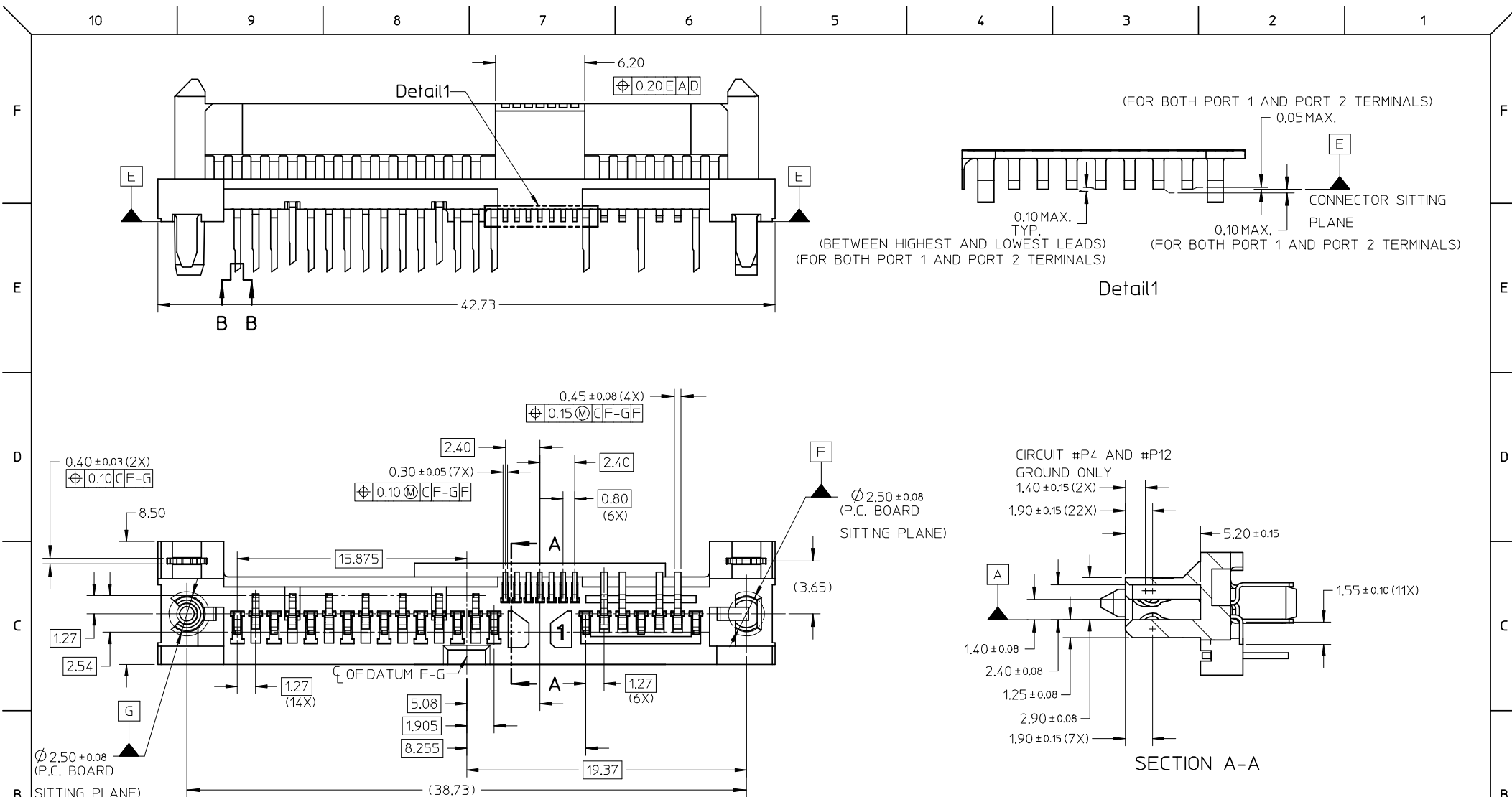
Mates With

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

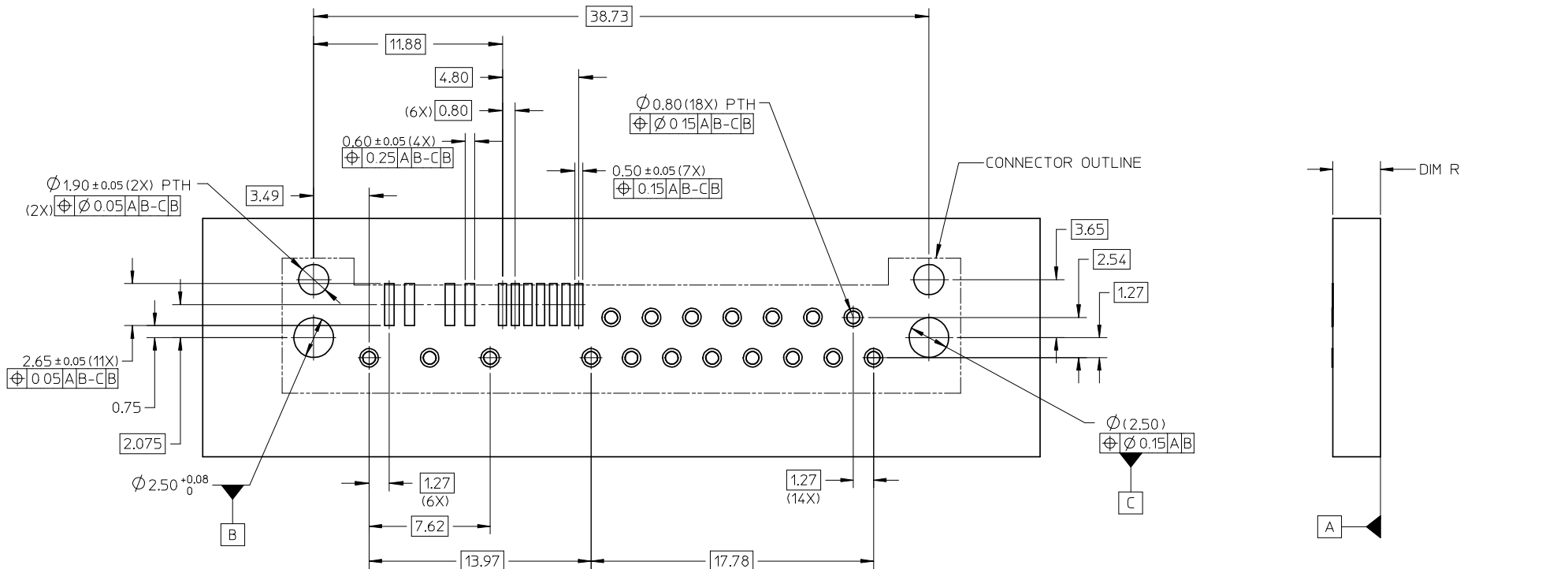
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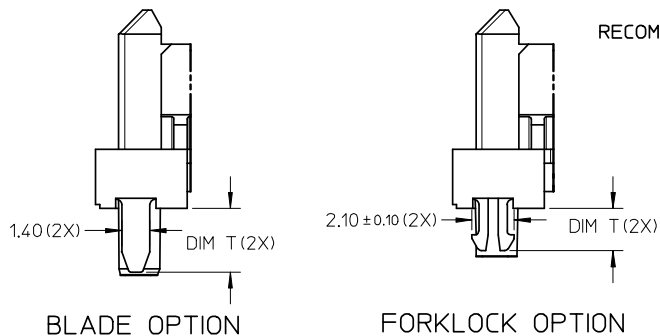


UPDATE DRAWING		QUALITY SYMBOLS		GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE		SCALE		DESIGN UNITS		THIRD ANGLE PROJECTION	
EC NO.	DATE	DRW/KHL	CHK/KHL	APPR/KCL	REV	mm	INCH	NTS	METRIC	METRIC	METRIC	mm	INCH
S2008-0663	2008/02/14	DRW/KHL	CHK/KHL	APPR/KCL	REV	4 PLACES	± ---	MM ONLY	DATE	DATE	DATE	DATE	DATE
2008/02/15	2008/02/15	2008/02/15	2008/02/15	2008/02/15	2008/02/15	3 PLACES	± ---	DRAWN BY	DATE	DATE	DATE	DATE	DATE
2008/02/18	2008/02/18	2008/02/18	2008/02/18	2008/02/18	2008/02/18	2 PLACES	± 0.20	CHECKED BY	DATE	DATE	DATE	DATE	DATE
2008/02/18	2008/02/18	2008/02/18	2008/02/18	2008/02/18	2008/02/18	1 PLACE	± ---	APPROVED BY	DATE	DATE	DATE	DATE	DATE
2008/02/18	2008/02/18	2008/02/18	2008/02/18	2008/02/18	2008/02/18	ANGULAR ± 3 °		SKTOH	DATE	DATE	DATE	DATE	DATE
2008/02/18	2008/02/18	2008/02/18	2008/02/18	2008/02/18	2008/02/18	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		MATERIAL NO.	DATE	DATE	DATE	DATE	DATE
2008/02/18	2008/02/18	2008/02/18	2008/02/18	2008/02/18	2008/02/18	SEE TABLE		DOCUMENT NO.	DATE	DATE	DATE	DATE	DATE
2008/02/18	2008/02/18	2008/02/18	2008/02/18	2008/02/18	2008/02/18	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION		DATE	DATE	DATE	DATE	DATE	DATE

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

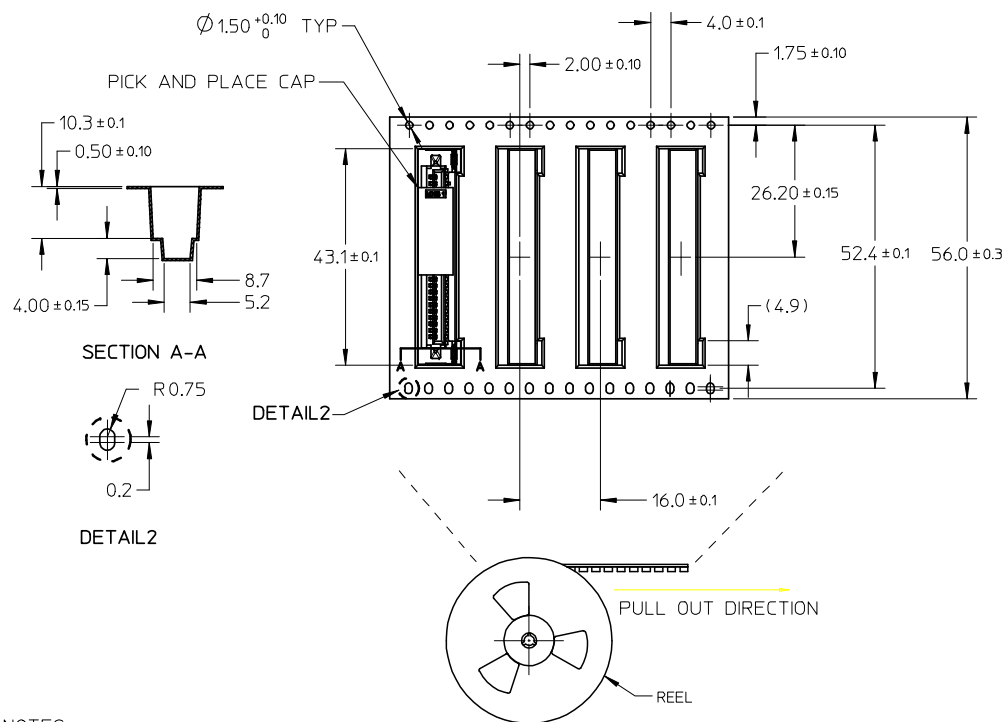


RECOMMENDED PCB LAYOUT
RECOMMENDED PCB THICKNESS DIM R±0.10



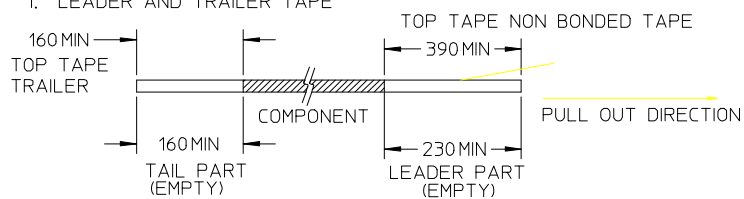
UPDATE DRAWING EC NO: S2008-0663 DRW:KHLIM CHKD:GQH APPR:KCLING 2008/02/14 2008/02/15 2008/02/18			DESCRIPTION	QUALITY SYMBOLS ▽=0 ▽=0	GENERAL TOLERANCES (UNLESS SPECIFIED) mmINCH 4 PLACES ± --- ± --- 3 PLACES ± --- ± --- 2 PLACES ± 0.20 ± --- 1 PLACE ± --- ± --- ANGULAR ± 3 °		DIMENSION STYLE MM ONLY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

TAPE AND REEL PACKAGING

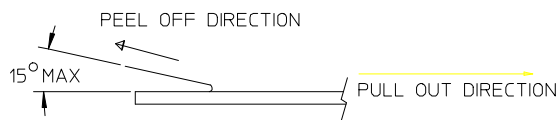


NOTES:

1. LEADER AND TRAILER TAPE

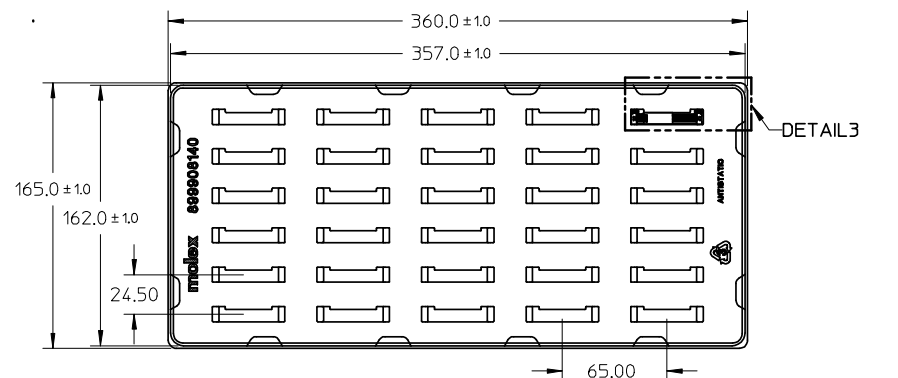


2. PEELING OFF FORCE OF THE TOP TAPE: 80gf MAX.
(PEELING DIRECTION AS SHOWN IN FOLLOWING FIGURE)



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



DETAIL3

NOTES:

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

UPDATE DRAWING		QUALITY SYMBOLS		GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE		SCALE		DESIGN UNITS		THIRD ANGLE PROJECTION	
EC NO:	DATE	DRW/KLM	DATE	CH/KD:CGH	DATE	mm	INCH	NTS	METRIC	mm	INCH	mm	INCH
S2008-0663	2008/02/14	DRW/KLM	2008/02/15	CH/KD:CGH	2008/02/18	4 PLACES	± ---	± ---	OKOH	2004/11/23	DATE	SERIAL ATTACH SCSI RECEPTACLE, HYBRID STANDARD HEIGHT	
						3 PLACES	± ---	± ---	CHECKED BY	DATE			
						2 PLACES	± 0.20	± ---	KCL ING	2004/12/01	DATE		
						1 PLACE	± ---	± ---	APPROVED BY	DATE			
ANGULAR ± 3 °						DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SEE TABLE		MATERIAL NO.		DOCUMENT NO.	
A6						SIZE		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION		MOLEX INCORPORATED		SD-87839-040	
						A3						SHEET NO.	
												4 OF 4	