

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number:

0784480001

Status:

Active

Overview:

serial_ata_combo_plugs_and_receptacles

Description:

1.27mm (.050") Pitch Serial ATA Device Plug, Straddle Mount, with Latch, 22 Circuits, Tape on Reel Packaging, Lead-free

Documents:

Drawing (PDF)

Product Specification PS-78448-001 (PDF)

RoHS Certificate of Compliance (PDF)

Agency Certification

CSA

LR19980

UL

E29179

General

Product Family

PCB Headers

Series

78448

Application

Board-to-Board

Comments

Latch version

Overview

serial_ata_combo_plugs_and_receptacles

Product Name

Serial ATA

Physical

Breakaway

No

Circuits (Loaded)

22

Circuits (maximum)

22

Color - Resin

Black

Durability (mating cycles max)

500

First Mate / Last Break

Yes

Flammability

94V-0

Glow-Wire Compliant

No

Guide to Mating Part

Yes

Keying to Mating Part

Yes

Lock to Mating Part

Yes

Material - Metal

Copper Alloy

Material - Plating Mating

Gold

Material - Plating Termination

Tin

Material - Resin

High Temperature Thermoplastic

Number of Rows

1

Orientation

Parallel

PCB Locator

No

PCB Retention

None

PCB Thickness Recommended (in)

0.041 In

PCB Thickness Recommended (mm)

1.04 mm

Packaging Type

Embossed Tape on Reel

Pitch - Mating Interface (in)

0.050 In

Pitch - Mating Interface (mm)

1.27 mm

Pitch - Term. Interface (mm)

1.27 mm

Plating min: Mating (µin)

30

Plating min: Mating (µm)

0.76

Plating min: Termination (µin)

100

Plating min: Termination (µm)

2.54

Polarized to Mating Part

Yes

Polarized to PCB

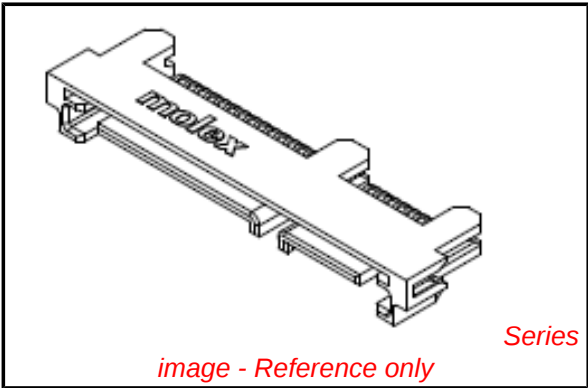
Yes

Stackable

No

Temperature Range - Operating

0°C to +55°C



EU RoHS

ELV and RoHS

Compliant

REACH SVHC

Contains SVHC: No

Halogen-Free

Status

Halogen-Free



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

78448Series

Mates With

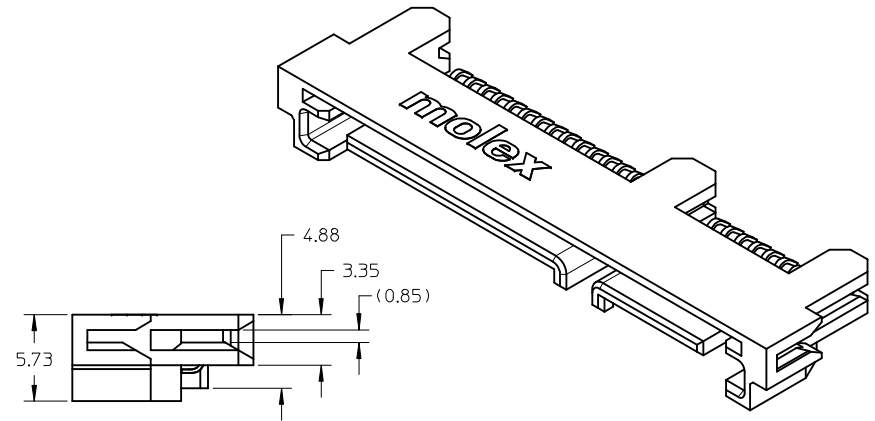
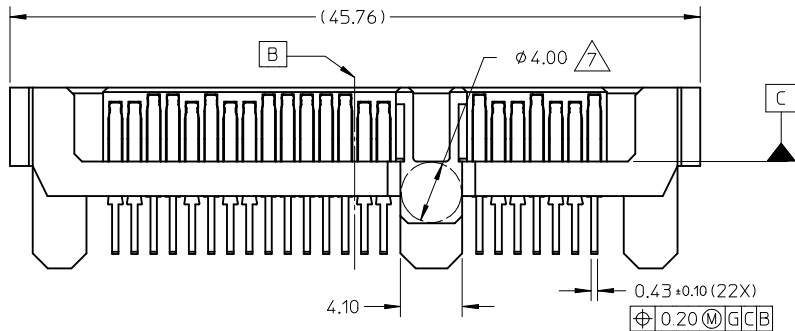
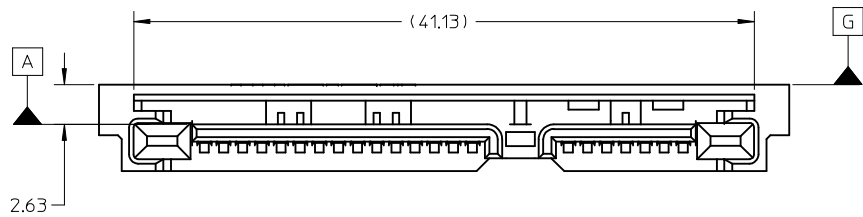
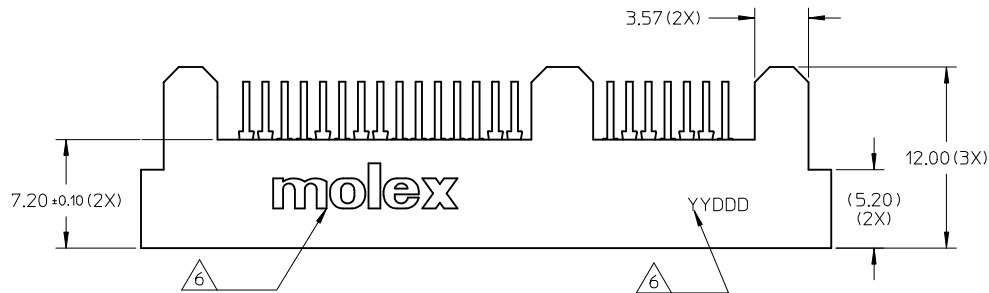
Molex Serial ATA and SAS Receptacles

Termination Interface: Style	Straddle Mount
Electrical	
Current - Maximum per Contact	1.5A
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-78448-001
Sales Drawing	SD-78448-001

This document was generated on 05/31/2010

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

PART NUMBER	PACKAGING
78448-0001	TAPE & REEL
78448-0011	TRAY



NOTES:

1. MATERIALS:

HOUSING: LCP, UL94V-0, COLOR: BLACK
TERMINAL: COPPER ALLOY.

2. FINISHES:

CONTACT: 0.76µM MIN. GOLD OVER 1.27µM MIN. NICKEL UNDERPLATE.
SOLDERTAIL: 2.54µM MIN. TIN OVER 1.27µM MIN. NICKEL UNDERPLATE.

3. PRODUCT SPECIFICATION: PS-78448-001

4. PACKAGING INFORMATION: SEE TABLE.

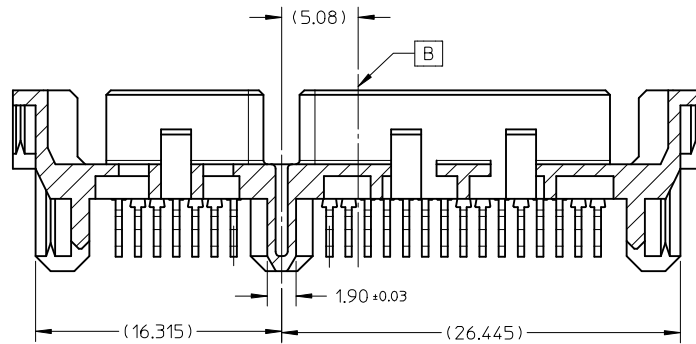
5. MATES WITH: MOLEX SATA AND SAS RECEPTACLES SERIES

6. MOLEX LOGO AND DATE CODE LOCATED APPROXIMATELY AS SHOWN.

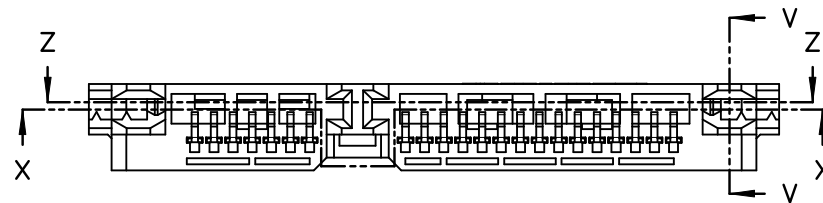
7. VACUUM PICKUP AREA.

8. NON-FUNCTIONAL CORING MAY VARY.

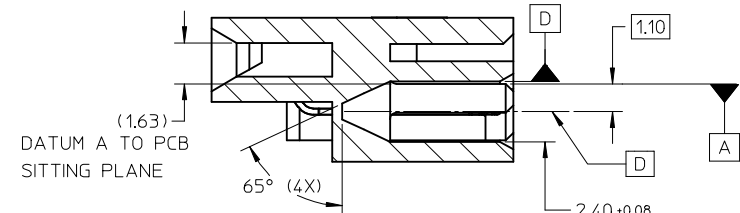
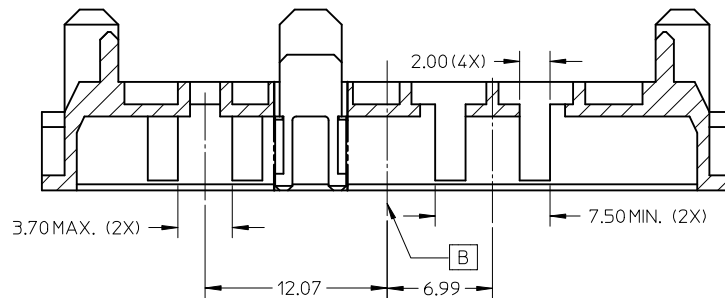
SEE SHEET 3 EC NO: S2009-0651 DRAWN:GMENARLY CHK'D:CGOH APPR:BOBOK	2009/03/13 2009/03/13 2009/03/14	DESCRIPTION	REV	QUALITY SYMBOLS ▽=0 ▽=0	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE NTS	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION			
							DRAWN BY GMENARLY		DATE 2008/07/15		TITLE SERIAL ATA PLUG WITH LATCHING STRADDLE MOUNT MOLEX INCORPORATED			
							CHECKED BY YKOH		DATE 2008/08/01					
							APPROVED BY BOBOK		DATE 2008/08/01					
							MATERIAL NO.		DOCUMENT NO.					
					DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SEE TABLE		SD-78448-001				1 OF 6	
					THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION									



SECTION Z-Z



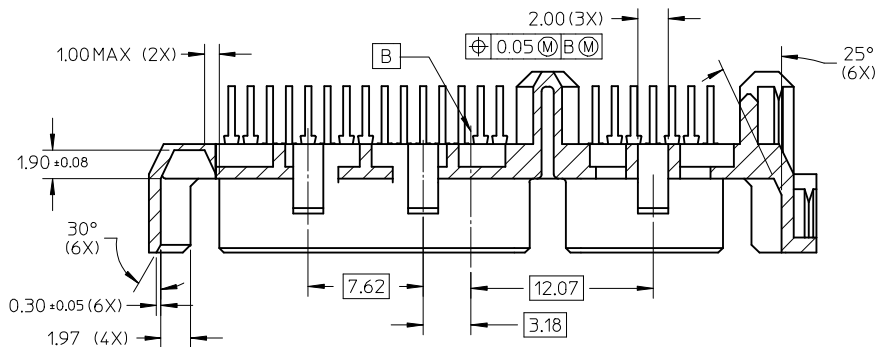
SECTION X-X



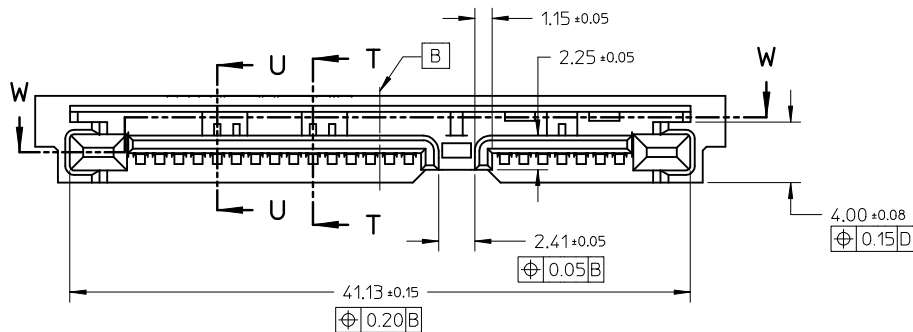
SECTION V-V

SEE SHEET 3 EC NO: S2009-0651 DRWNG:GMENARLY CHKD:CGOH APPR:BOKOK A2	DESCRIPTION REV	QUALITY SYMBOLS ▽=0 ⌒=0	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE NTS	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION	
				mm	INCH	DRAWN BY GMENARLY	DATE 2008/07/15	TITLE SERIAL ATA PLUG WITH LATCHING STRADDLE MOUNT		
			4 PLACES	± ---	± ---	CHECKED BY YKOH	DATE 2008/08/01			
			3 PLACES	± ---	± ---					
			2 PLACES	± 0.20	± ---			MOLEX INCORPORATED		
			1 PLACE	± ---	± ---					
			ANGULAR ± 3 °		APPROVED BY BOKOK	DATE 2008/08/01				
			DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		MATERIAL NO.		DOCUMENT NO.		SHEET NO.	
					SEE TABLE		SD-78448-001		2 OF 6	
					THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION					

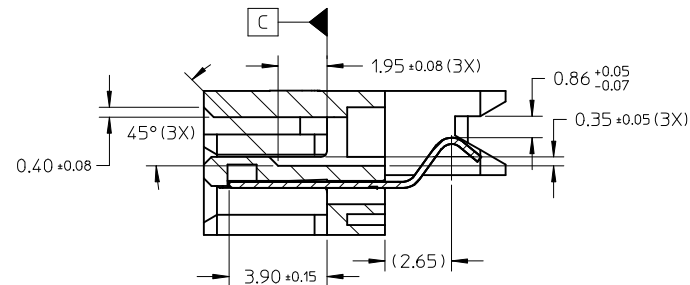
10 9 8 7 6 5 4 3 2 1



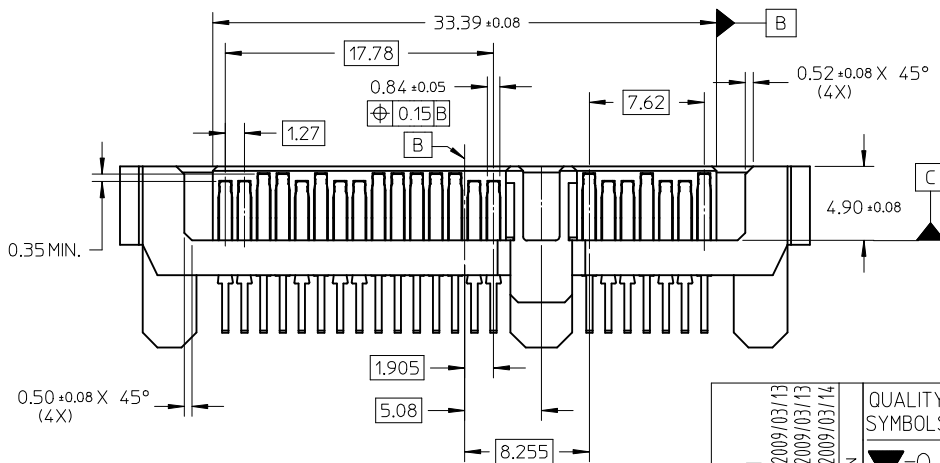
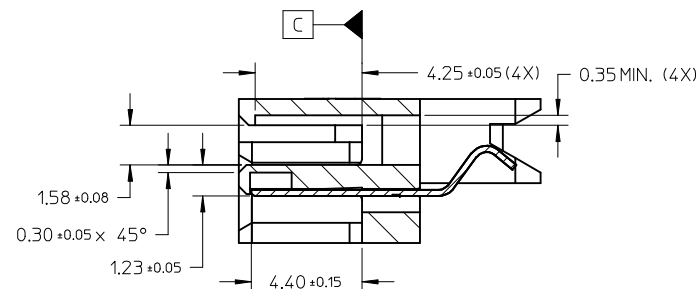
SECTION W-W



SECTION U-U



SECTION T-T



REV	DESCRIPTION	DATE	BY	CHKD	APPD
A2	ADD DIMENSION	2009/03/13	DRWN:GMENARLY	CHKD:CGOH	APPD:BOKOK
	EC NO: S2009-0651	2009/03/13			

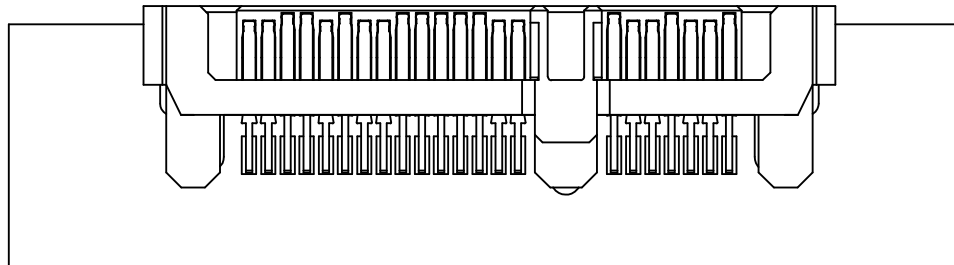
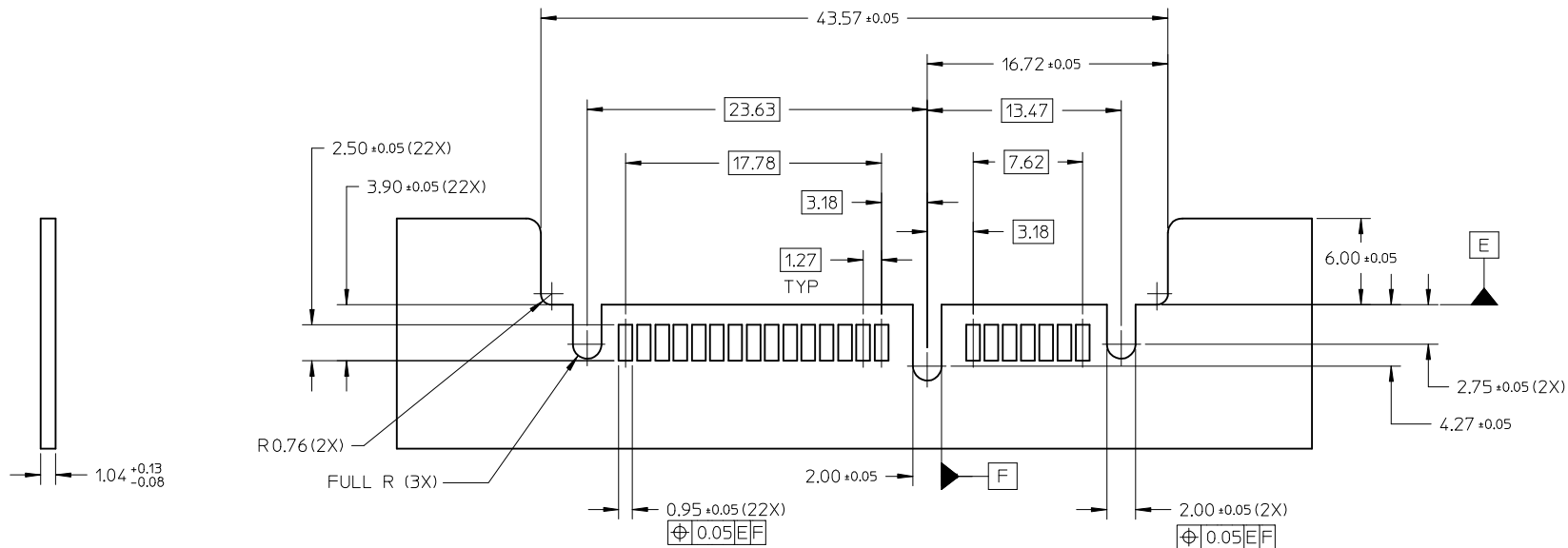
QUALITY SYMBOLS
▽=0
▽=0

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	
DRAWN BY	DATE
GMENARLY	2008/07/15
CHECKED BY	DATE
YKOH	2008/08/01
APPROVED BY	DATE
BOKOK	2008/08/01
MATERIAL NO.	
SEE TABLE	
SIZE	
A3	

SCALE NTS	DESIGN UNITS METRIC	 THIRD ANGLE PROJECTION
TITLE SERIAL ATA PLUG WITH LATCHING STRADDLE MOUNT		
molex MOLEX INCORPORATED		
DOCUMENT NO. SD-78448-001		SHEET NO. 3 OF 6
AINS INFORMATION THAT IS PROPRIETARY TO MOLEX SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION		

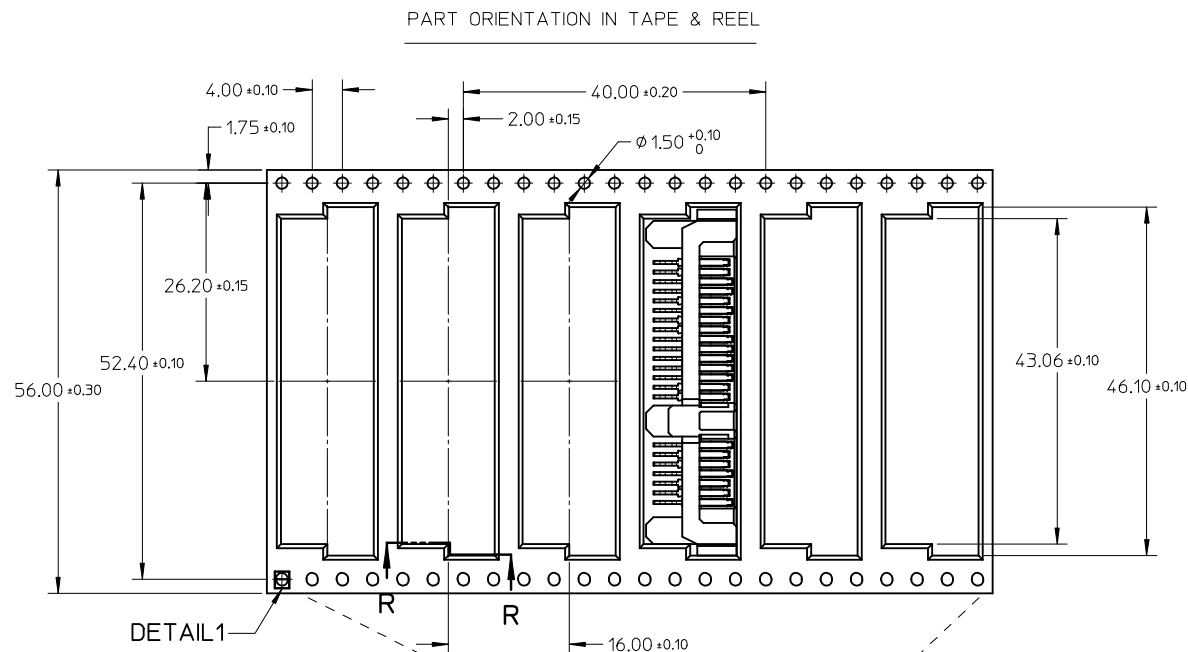
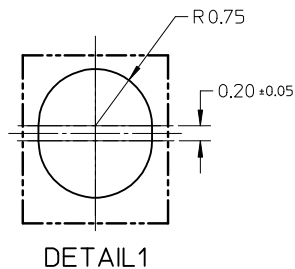
9 8 7 6 5 4 3 2 1



RECOMMENDED PCB LAYOUT

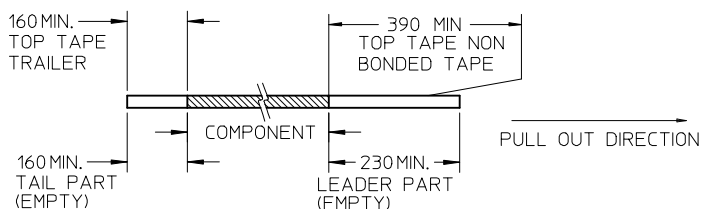
SEE SHEET 3 EC NO: S2009-0651 DRAWN:GMENARLY CHKD:CGOH APPR:BOKOK A2	DESCRIPTION REV	QUALITY SYMBOLS ▽=0 ▽=0	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE NTS	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION						
				mm	INCH	DRAWN BY GMENARLY	DATE 2008/07/15	TITLE SERIAL ATA PLUG WITH LATCHING STRADDLE MOUNT							
			4 PLACES	± ---	± ---	CHECKED BY YKOH	DATE 2008/08/01								
			3 PLACES	± ---	± ---	APPROVED BY BOKOK		DATE 2008/08/01	MOLEX INCORPORATED						
			2 PLACES	± 0.20	± ---										
			1 PLACE	± ---	± ---	MATERIAL NO.		DOCUMENT NO.		SHEET NO.					
			ANGULAR ± 3 °			SEE TABLE		SD-78448-001		4 OF 6					
			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									
						SIZE A3									

PACKAGING INFORMATION

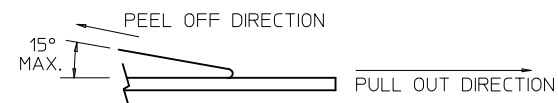


NOTES:

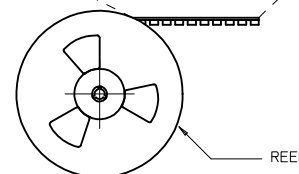
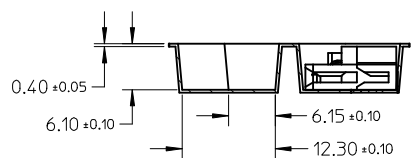
1. LEADER AND TRAILER TAPE



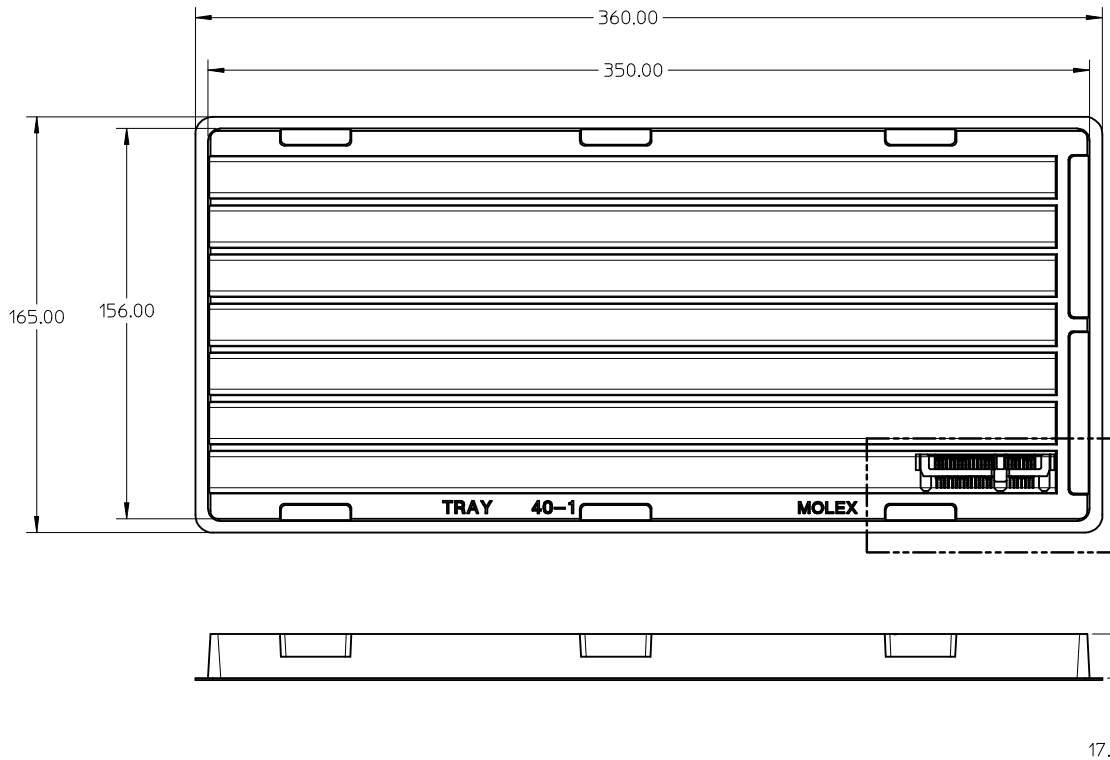
2. PEELING OFF FORCE OF THE TOP TAPE: 20 - 80gf. (PEELING DIRECTION AS SHOWN IN FOLLOWING FIGURE)



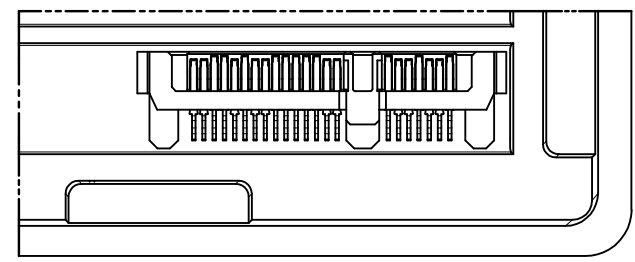
- TAPE AND REEL SPECIFICATION IS AS PER EIA-481.
- TAPE AND REEL QUANTITY : 650 PCS/ REEL.
- THE TAPE IS TREATED FOR ANTI-STATIC.



SEE SHEET 3 EC NO: S2009-0651 DRAWN:GMENARLY CHKD:CGOH APPR:BOKOK 2009/03/13 2009/03/13 2009/03/14	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 GMENARLY	DATE 2008/07/15	TITLE SERIAL ATA PLUG WITH LATCHING STRADDLE MOUNT					
			4 PLACES	± ---	± ---	CHECKED BY YKOH	DATE 2008/08/01						
			3 PLACES	± ---	± ---	APPROVED BY BOKOK		DATE 2008/08/01	MOLEX INCORPORATED				
			2 PLACES	± 0.20	± ---	MATERIAL NO.		DOCUMENT NO.					
			1 PLACE	± ---	± ---	SEE TABLE		SD-78448-001		5 OF 6			
			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				
A2	REV												



PART ORIENTATION IN TRAY



DETAIL2

NOTES:

1. PACKAGING QTY: 49PCS/TRAY
2. MATERIAL : PVC - CLEAR, ANTISTATIC

SEE SHEET 3 EC NO: S2009-0651 DRWN:GMENARLY CHKD:CGOH APPR:BOKOK A2	DESCRIPTION REV	QUALITY SYMBOLS ▽=0 ◻=0	GENERAL TOLERANCES (UNLESS SPECIFIED)			DIMENSION STYLE MM ONLY		SCALE NTS	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION		
				mm	INCH	DRAWN BY GMENARLY	DATE 2008/07/15	TITLE SERIAL ATA PLUG WITH LATCHING STRADDLE MOUNT				
			4 PLACES	±---	±---	CHECKED BY YKOH	DATE 2008/08/01					
			3 PLACES	±---	±---	APPROVED BY BOKOK						
			2 PLACES	±0.20	±---	MOLEX INCORPORATED						
			1 PLACE	±---	±---							
			ANGULAR ± 3 °			MATERIAL NO.		DOCUMENT NO.		SHEET NO.		
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS			SEE TABLE		SD-78448-001		6 OF 6					
			SIZE A3	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION								