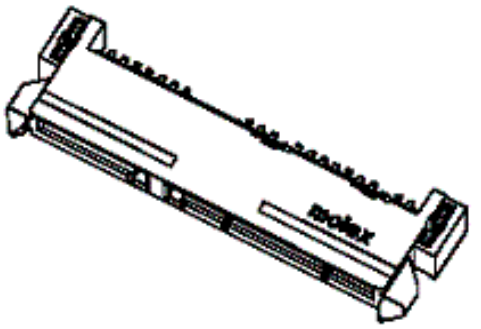
This document was generated on 05/04/2010

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number: 0470183001

Status: Active

Description: 1.27mm (.050") Pitch Serial ATA Host Receptacle, Mating Height 4.70mm (.185"), 0.76µm (30µ") Gold (Au) Plating, Light Tin Solder Area, SurfaceMount, Right Angle, Top Mount Type, 22 Circuits, Lead Free



Series image - Reference only

Documents:

3D Model
Drawing (PDF)
Product Specification PS-67492-001 (PDF)
RoHS Certificate of Compliance (PDF)

Agency Certification

CSA	LR 19980
UL	E29179

General

Product Family	PCB Receptacles
Series	47018
Application	Board-to-Board
Comments	Top Mount Type
Product Name	Serial ATA

Physical

Circuits (Loaded)	22
Color - Resin	Black
Durability (mating cycles max)	500
Flammability	94V-0
Glow-Wire Compliant	No
Keying to Mating Part	Yes
Lock to Mating Part	None
Material - Metal	Copper Alloy
Material - Plating Mating	Gold
Material - Plating Termination	Tin
Number of Rows	1
Orientation	Right Angle
PCB Locator	Yes
PCB Retention	Yes
PCB Thickness Recommended (in)	0.062 In
PCB Thickness Recommended (mm)	1.60 mm
Packaging Type	Tray
Pitch - Mating Interface (in)	0.050 In
Pitch - Mating Interface (mm)	1.27 mm
Plating min: Mating (µin)	30
Plating min: Mating (µm)	0.76
Plating min: Termination (µin)	80
Plating min: Termination (µm)	2.00
Polarized to Mating Part	Yes
Polarized to PCB	Yes
Surface Mount Compatible (SMC)	N/A
Temperature Range - Operating	-35°C to +85°C
Termination Interface: Style	Surface Mount

Electrical

Current - Maximum per Contact	1.5A
Voltage - Maximum	15V DC

Solder Process Data

Lead-free Process Capability	Reflow Capable (SMT only)

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

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
47018Series

Mates With
87703-0001

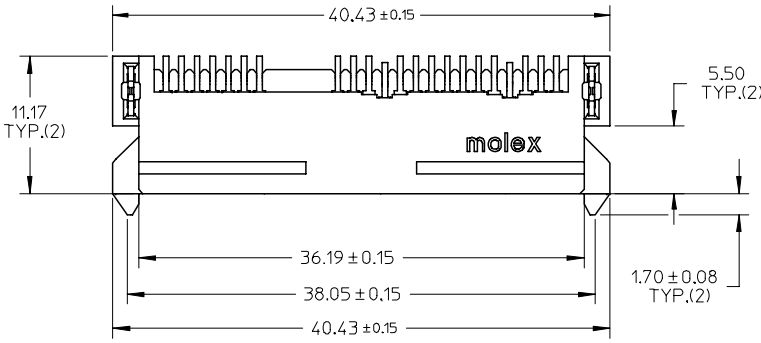
Process Temperature max. C	230

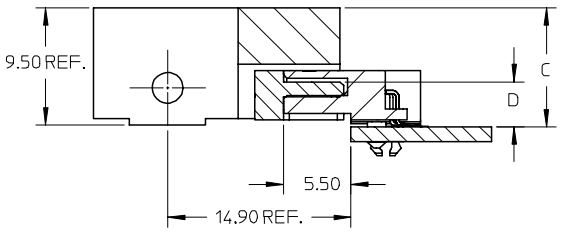
Material Info

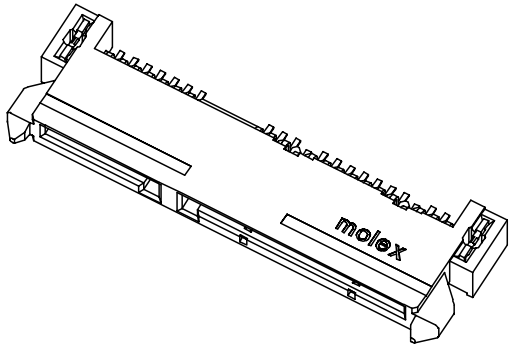
Reference - Drawing Numbers

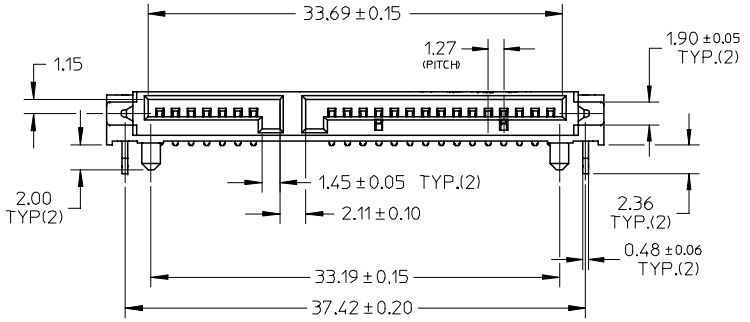
Packaging Specification	PK-67492-001
Product Specification	PS-67492-001
Sales Drawing	SD-47018-001

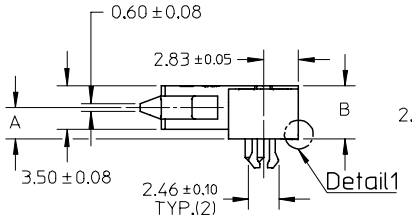
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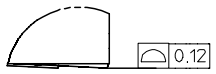




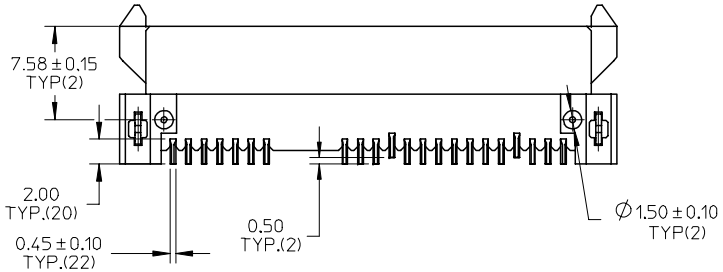








Detail1



NOTES:

1.MATERIAL:
- HOUSING: THERMAL PLASTIC, GLASS FILLED, UL94V-0. COLOR: BLACK,
- FORKLOCK: COPPER ALLOY,
- TERMINALS: COPPER ALLOY.

2.TERMINAL PLATING:
- CONTACT AREA:
  - (a) GOLD FLASH,
  - (b) GOLD, THICKNESS=0.76 MICRONS MINIMUM,
  - (c) GOLD, THICKNESS=0.38 MICRONS MINIMUM,
- ▽D SOLDER AREA: TIN, THICKNESS=2.00 MICRONS MINIMUM,
- UNDER PLATE: NICKEL, THICKNESS=1.27 MICRONS MINIMUM.

3.FORLOCK PLATING:
- ▽D SOLDER AREA: TIN, THICKNESS=2.00 MICRONS MINIMUM,
- UNDER PLATING: NICKEL, THICKNESS=1.27 MICRONS MINIMUM.

4.PRODUCT SPECIFICATION: PS-67492-001.

5.PACKAGING METHOD: 47018-400*, TAPE REEL, DETAIL REFER TO PK-47018-003;
OTHERS, TRAY, DETAIL REFER TO PK-67492-001.

6.MATING PARTS: 87703/87672.

▽E 7.PRODUCT COMPLIANT TO RoSH DIRECTIVE 2002/95/EC AND 2000/53/EC.

ADD PART NO
EC NO: SH2007-0187 2006/09/15
DRWN:HZHA006 2006/09/19
CHKD:JTIAN 2006/10/17
APPR: JNCHEN
DESCRIPTION
REV

QUALITY SYMBOLS
▼=0
▽C=0

GENERAL TOLERANCES (UNLESS SPECIFIED)

	mm	INCH
4 PLACES	± ---	± ---
3 PLACES	± ---	± ---
2 PLACES	± 0.25	± ---
1 PLACE	± 0.25	± ---
ANGULAR ± 3 °		

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

DIMENSION STYLE	MM ONLY
SCALE	2:1
DESIGN UNITS	METRIC
	THIRD ANGLE PROJECTION
DRAWN BY	TOM LI
DATE	2004/10/25
CHECKED BY	GRATE MA
DATE	2004/10/25
APPROVED BY	VINCENT
DATE	2004/10/25
MATERIAL NO.	SEE SHEET 2

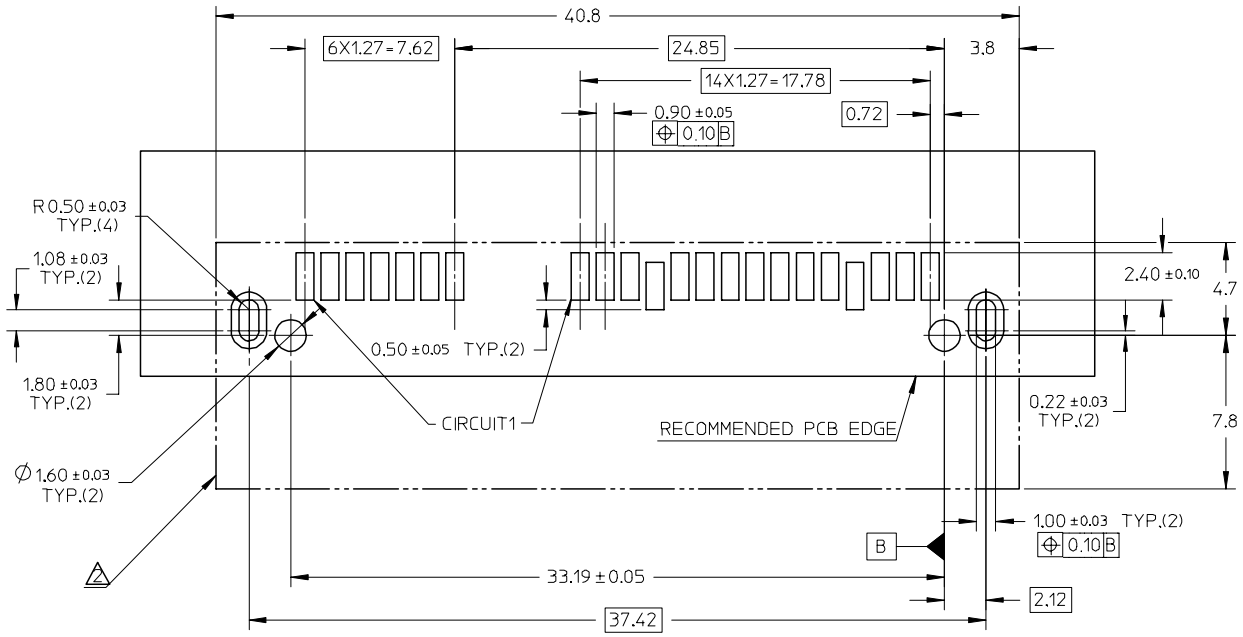
TITLE
SERIAL ATA
DOCKING CONNECTOR
TOP MOUNT TYPE

molex MOLEX INCORPORATED

DOCUMENT NO. SD-47018-001
SHEET NO. 1 OF 2

SIZE A3

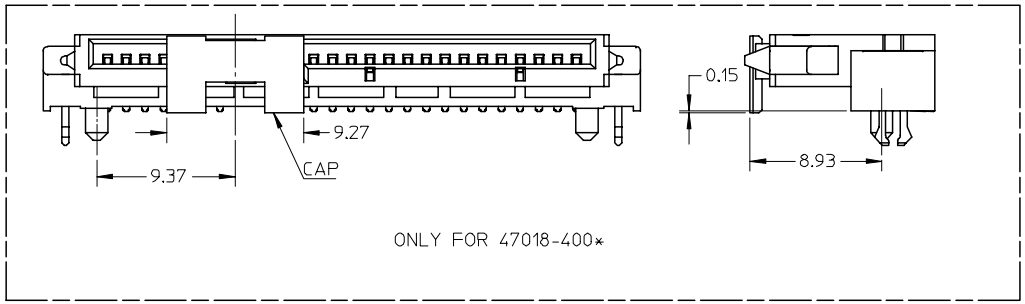
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NOTES:

1. RECOMMENDED P.C.B THICKNESS: 1.60+/-0.05.
2. CONNECTOR PROFILE, ALL THE TRACE SHOULD BE AVOIDED THIS AREA.

RECOMMENDED P.C.B LAYOUT(COMPONENT SIDE)



PRODUCT	CONTACT PLATING SPEC	DIM'A'	DIM'B'	DIM'C'	DIM'D'	PACKAGE	REMARK
47018-4000	NOTES 2 (A) OF SHEET 1	3.40	5.15	10.50	4.50	TAPE REEL	PURE TIN (LIGHT TIN) WITH CAP
47018-4001	NOTES 2 (B) OF SHEET 1						
47018-4002	NOTES 2 (C) OF SHEET 1						
47018-3000	NOTES 2 (A) OF SHEET 1	2.95	4.70	10.05	4.05	TRAY	PURE TIN (LIGHT TIN)
47018-3001	NOTES 2 (B) OF SHEET 1						
47018-3002	NOTES 2 (C) OF SHEET 1						
47018-2010	NOTES 2 (A) OF SHEET 1	2.55	4.30	9.65	3.65	TRAY	PURE TIN (MATTE TIN)
47018-2011	NOTES 2 (B) OF SHEET 1						
47018-2012	NOTES 2 (C) OF SHEET 1						
47018-2000	NOTES 2 (A) OF SHEET 1	2.55	4.30	9.65	3.65	TRAY	PURE TIN (LIGHT TIN)
47018-2001	NOTES 2 (B) OF SHEET 1						
47018-2002	NOTES 2 (C) OF SHEET 1						

ADD PART NO
EC NO: SH2007-0187 2006/09/15
DRWN:HZHA006 2006/09/19
CHKD:JTIAN 2006/10/17
APPR: JNCHEN
DESCRIPTION
REV

QUALITY SYMBOLS
▼=0
Ⓒ=0

GENERAL TOLERANCES (UNLESS SPECIFIED)

	mm	INCH
4 PLACES	± ---	± ---
3 PLACES	± ---	± ---
2 PLACES	± 0.25	± ---
1 PLACE	± 0.25	± ---
ANGULAR ± 3 °		

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

DIMENSION STYLE: MM ONLY
SCALE: 1:1
DESIGN UNITS: METRIC
THIRD ANGLE PROJECTION

DRAWN BY: TOM LI DATE: 2004/10/25
CHECKED BY: GRATE MA DATE: 2004/10/25
APPROVED BY: VINCENT DATE: 2004/10/25
MATERIAL NO.: SEE TABLE

TITLE: SERIAL ATA DOCKING CONNECTOR TOP MOUNT TYPE
MOLEX INCORPORATED
DOCUMENT NO.: SD-47018-001
SHEET NO.: 2 OF 2
SIZE: A3

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