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Part Number: [0470182000](#)
Status: **Active**
Description: 1.27mm (.050") Pitch Serial ATA Host Receptacle, Mating Height 4.30mm (.169"), Gold (Au) Flash, Light Tin Solder Area, Surface Mount, Right Angle, Top Mount Type, 22 Circuits, Lead Free

Documents:

[3D Model](#) [Product Specification PS-67492-001 \(PDF\)](#)
[Drawing \(PDF\)](#) [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

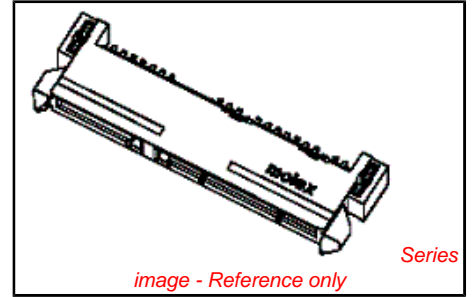
Circuits (Loaded) 22
 Color - Resin Black
 Durability (mating cycles max) 500
 Flammability 94V-0
 Glow-Wire Compliant No
 Keying to Mating Part Yes
 Lock to Mating Part None
 Material - Metal Copper Alloy
 Material - Plating Mating Gold
 Material - Plating Termination Tin
 Number of Rows 1
 Orientation 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: 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)
 Process Temperature max. C 230



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](#)

Material Info

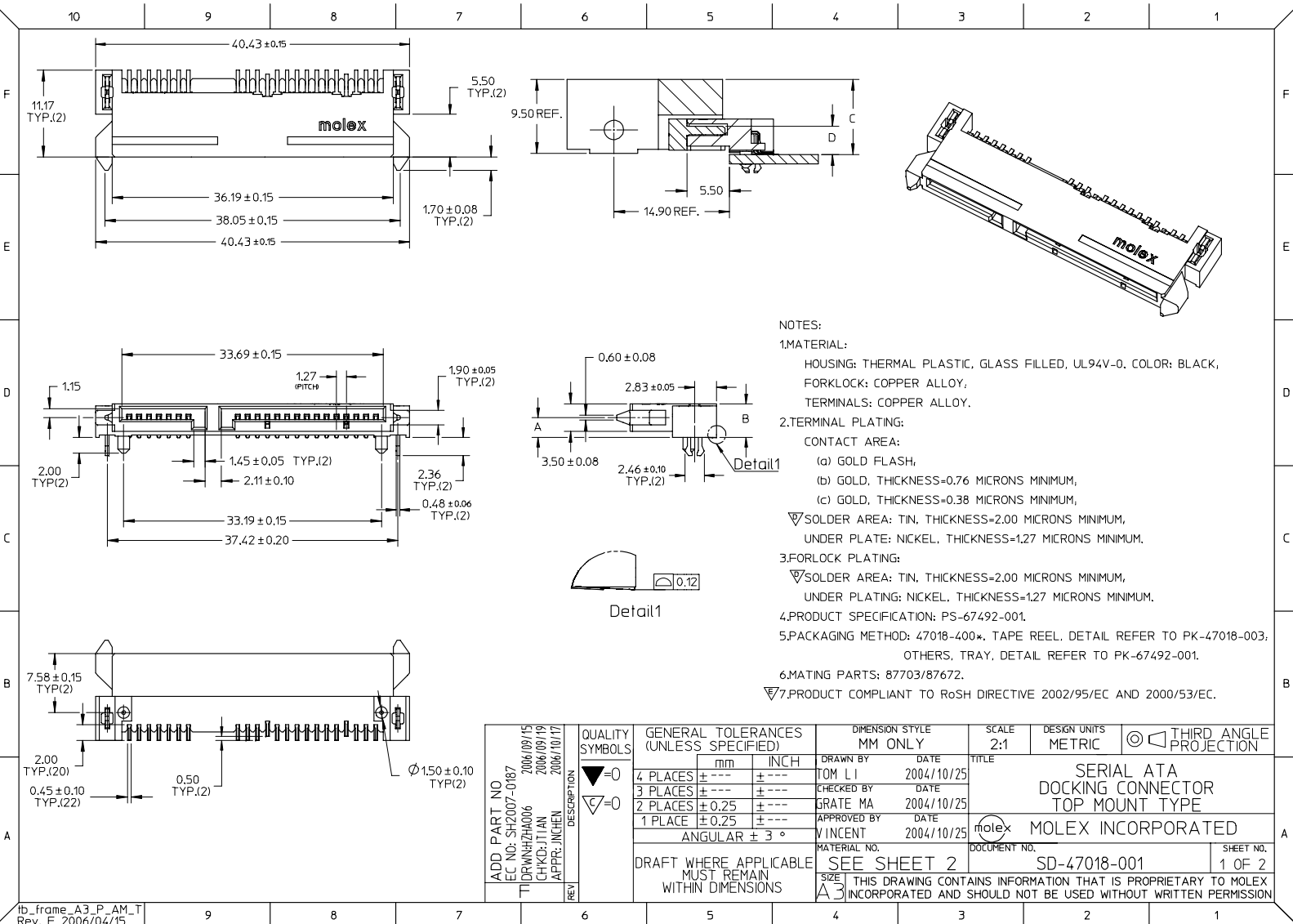
Reference - Drawing Numbers

Product Specification
Sales Drawing

PS-67492-001
SD-47018-001

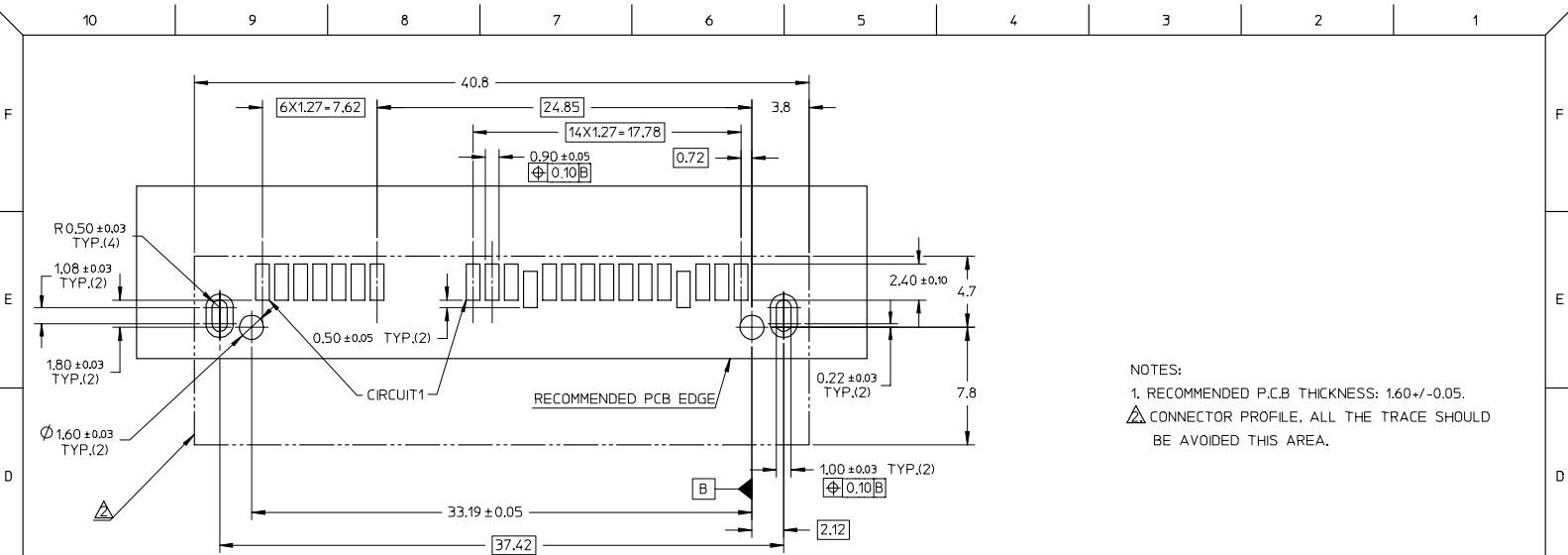
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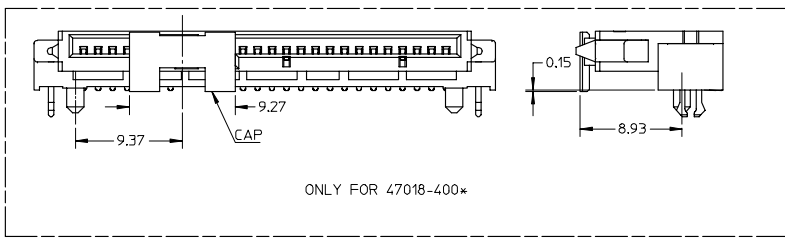
- NOTES:
- MATERIAL:
 - HOUSING: THERMAL PLASTIC, GLASS FILLED, UL94V-0, COLOR: BLACK,
 - FORKLOCK: COPPER ALLOY,
 - TERMINALS: COPPER ALLOY.
 - TERMINAL PLATING:
 - CONTACT AREA:
 - (a) GOLD FLASH,
 - (b) GOLD, THICKNESS=0.76 MICRONS MINIMUM,
 - (c) GOLD, THICKNESS=0.38 MICRONS MINIMUM,
 - SOLDER AREA: TIN, THICKNESS=2.00 MICRONS MINIMUM,
 - UNDER PLATE: NICKEL, THICKNESS=1.27 MICRONS MINIMUM.
 - FORKLOCK PLATING:
 - SOLDER AREA: TIN, THICKNESS=2.00 MICRONS MINIMUM,
 - UNDER PLATING: NICKEL, THICKNESS=1.27 MICRONS MINIMUM.
 - PRODUCT SPECIFICATION: PS-67492-001.
 - PACKAGING METHOD: 47018-400*, TAPE REEL. DETAIL REFER TO PK-47018-003; OTHERS, TRAY, DETAIL REFER TO PK-67492-001.
 - MATING PARTS: 87703/87672.
 - PRODUCT COMPLIANT TO RoSH DIRECTIVE 2002/95/EC AND 2000/53/EC.

ADD PART NO EC NO: SH2007-0187 TIDRWNHZHQ06 CHIKO-JIAN APPR: JINCHEN 2006/09/15 2006/09/19 2006/10/17	QUALITY SYMBOLS ▽=0 ▽=0	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE 2:1	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION	
		mm	INCH	DRAWN BY TOM LI	DATE 2004/10/25	TITLE SERIAL ATA DOCKING CONNECTOR TOP MOUNT TYPE MOLEX INCORPORATED			
		4 PLACES ± ---	± ---	CHECKED BY GRATE MA	DATE 2004/10/25				
		3 PLACES ± ---	± ---	APPROVED BY VINCENT	DATE 2004/10/25	MATERIAL NO.	DOCUMENT NO.	SHEET NO.	
2 PLACES ± 0.25	± ---	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SEE SHEET 2	SD-47018-001	1 OF 2			
1 PLACE ± 0.25	± ---	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION							
ANGULAR ± 3 °									



NOTES:
 1. RECOMMENDED P.C.B THICKNESS: 1.60+/-0.05.
 △ 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)
47018-4001	NOTES 2 (B) OF SHEET 1						WITH CAP
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 TIDRW: HZH006 CHK: JILIAN APPR: JICHEN 2006/09/15 2006/09/19 2006/10/17	QUALITY SYMBOLS ▽=0 ▽=0	GENERAL TOLERANCES (UNLESS SPECIFIED) mm INCH 4 PLACES ± --- ± --- 3 PLACES ± --- ± --- 2 PLACES ± 0.25 ± --- 1 PLACE ± 0.25 ± --- ANGULAR ± 3°	DIMENSION STYLE MM ONLY DRAWN BY: TOM LI DATE: 2004/10/25 CHECKED BY: GRATE MA DATE: 2004/10/25 APPROVED BY: VINCENT DATE: 2004/10/25	SCALE: 1:1 DESIGN UNITS: METRIC THIRD ANGLE PROJECTION	SERIAL ATA DOCKING CONNECTOR TOP MOUNT TYPE MOLEX INCORPORATED
	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS	SEE TABLE	MATERIAL NO. SD-47018-001	DOCUMENT NO. SD-47018-001	SHEET NO. 2 OF 2
	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION				
	MOLEX INCORPORATED				