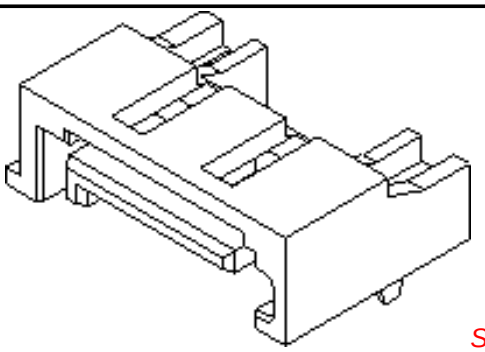
This document was generated on 05/26/2010

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number: 0470805001
Status: Active
Overview: serial_ata_signal_plugs
Description: 1.27mm (.050") Pitch Serial ATA Shrouded Signal Plug, Surface Mount, 7 Circuits, with Peg and Locking Latch, Color Nature, Gold (Au) Flash, Bright Tin, Lead-free



Series image - Reference only

Documents:

- 3D Model
- Drawing (PDF)
- Product Specification PS-67490-001 (PDF)
- RoHS Certificate of Compliance (PDF)

Agency Certification

CSA	LR 19980
UL	E29179

General

Product Family	PCB Headers
Series	47080
Application	Board-to-Board, Wire-to-Board
Overview	serial_ata_signal_plugs
Product Name	Serial ATA

Physical

Breakaway	No
Circuits (Loaded)	7
Circuits (maximum)	7
Durability (mating cycles max)	500
First Mate / Last Break	Yes
Flammability	94V-0
Glow-Wire Compliant	No
Lock to Mating Part	Yes
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	Embossed Tape on Reel
Pitch - Mating Interface (in)	0.050 In
Pitch - Mating Interface (mm)	1.27 mm
Polarized to Mating Part	Yes
Polarized to PCB	Yes
Shrouded	No
Stackable	No
Temperature Range - Operating	-35°C to +85°C
Termination Interface: Style	Surface Mount

Electrical

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

Solder Process Data

Lead-free Process Capability	Reflow Capable (SMT only)
Process Temperature max. C	230

Material Info

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
47080Series

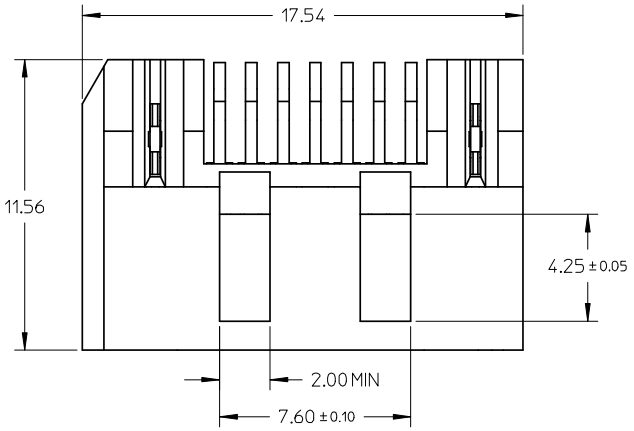
Mates With
67489 , 88750-5310 , 88750-5318 , 88750-5410 , 88750-54 18

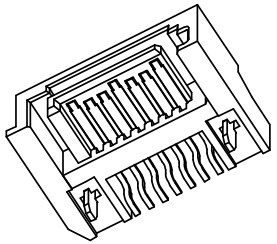
Reference - Drawing Numbers

Packaging Specification	PK-47080-001
Product Specification	PS-67490-001, RPS-67490-002
Sales Drawing	SD-47080-001

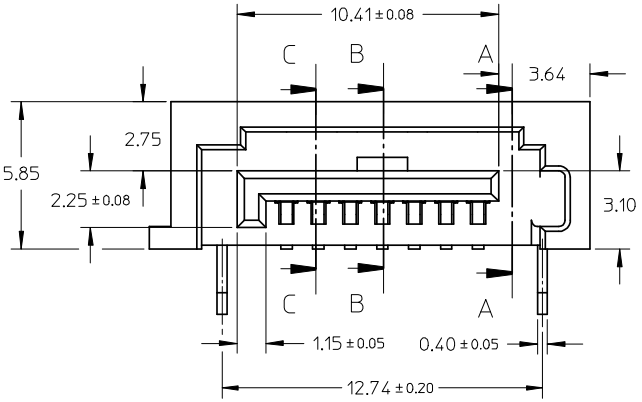
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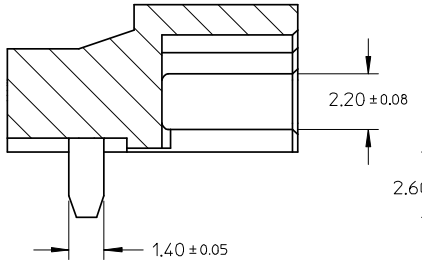
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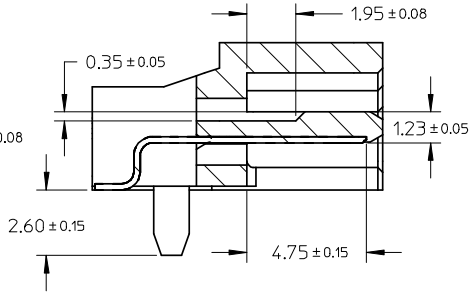


NOTES:
1. MATERIAL:
   HOUSING: HIGH TEMPERATURE PLASTIC, GLASS FILLED, UL94V-0, COLOR: SEE CHART;
   TERMINAL\PEG: COPPER ALLOY;
   MYLAR: ADHENSIVE TAPE.
2. TERMINAL AND PEG PLATING:
   CONTACT AREA: GOLD PLATED ON 1.25 MICRONS MINIMUM NICKEL UNDER PLATE,
   REFERED TO PLATING TYPE LIST IN TABLE;
   SOLDER AREA: 1.27 MICRONS PURE TIN PLATED ON 1.25 MICRONS
   MINIMUM NICKEL UNDER PLATE, REFERED TO REMARK IN TABLE.
3. PRODUCT SPECIFICATION REFER TO PS-67490-001.
4. MATING PART: 67489.
5. PRODUCT COMPLIANT TO RoHS DIRECTIVE 2002/95/EC AND ELV 2000/53/EC.

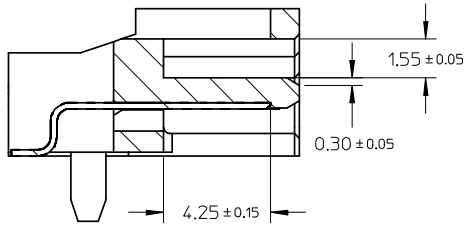




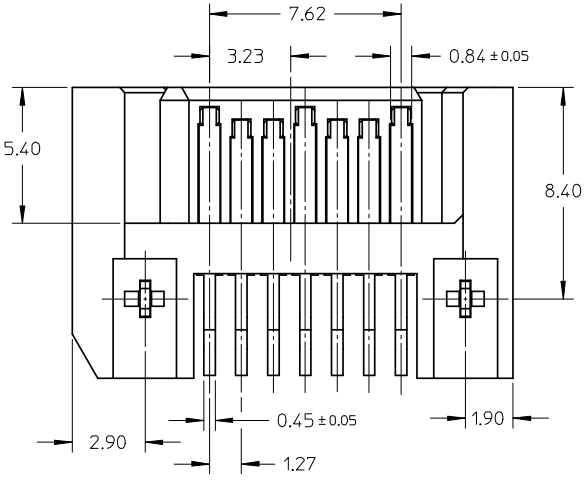
SECTION A-A



SECTION B-B



SECTION C-C



UPDATE DRAWING
EC NO: SH2009-0041
DRWN:LSONG09 2008/08/06
CHKD:XJSONG 2008/08/07
APPR:HWANG 2008/08/26
DESCRIPTION
REV

QUALITY SYMBOLS
▼=0
Ⓒ=0

GENERAL TOLERANCES (UNLESS SPECIFIED)

	mm	INCH
4 PLACES	± ---	± ---
3 PLACES	± ---	± ---
2 PLACES	± 0.15	± ---
1 PLACE	± 0.25	± ---
ANGULAR ± 1 °		

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

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

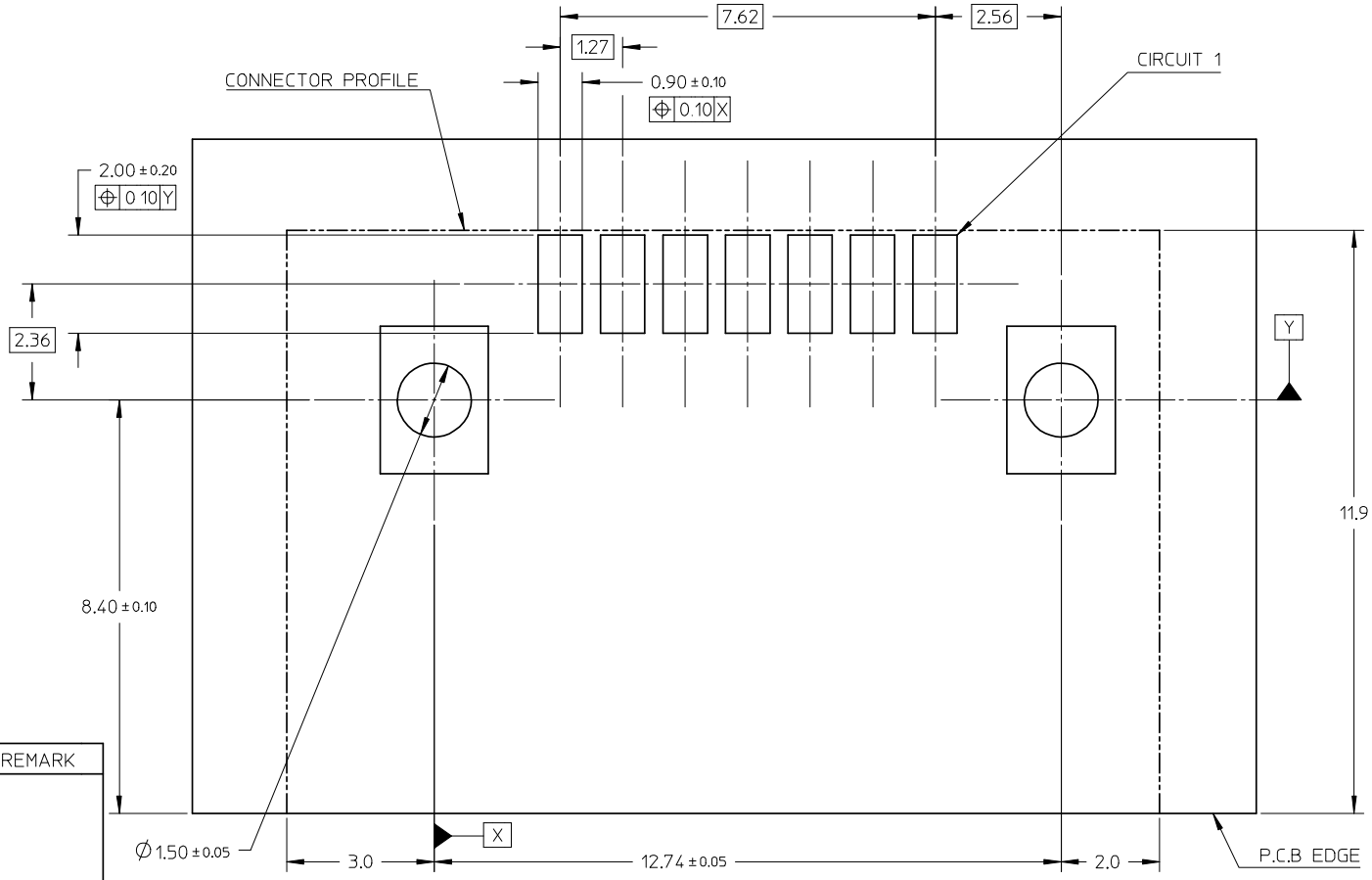
DRAWN BY: GRATE MA DATE: 2004/06/14
CHECKED BY: GRATE MA DATE: 2004/06/14
APPROVED BY: VINCENT DATE: 2004/06/14

TITLE: SATA SYSTEM PLUG PEG INSERT TYPE WITH SHROUD

MOLEX INCORPORATED

MATERIAL NO.: SEE SHEET 2
DOCUMENT NO.: SD-47080-001
SHEET NO.: 1 OF 2
SIZE: A3

THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION



RECOMMENDED P.C.B LAYOUT

THICKNESS: 1.60+/- 0.05

PART NO	PLATING TYPE	PLASTIC COLOR	REMARK
47080-4001	GOLD FLASH	BLACK	BRIHGT TIN
47080-4002	GOLD PLATED 0.76 MICRONS		
47080-4005	GOLD PLATED 0.38 MICRONS		
47080-5001	GOLD FLASH	NATURE COLOR	
47080-5002	GOLD PLATED 0.76 MICRONS		
47080-5005	GOLD PLATED 0.38 MICRONS		
47080-6001	GOLD FLASH	PROCESS BLUE C DELTA E<3	
47080-6002	GOLD PLATED 0.76 MICRONS		
47080-6005	GOLD PLATED 0.38 MICRONS		
47080-1010	GOLD FLASH	BLACK	MATTE TIN
47080-1020	GOLD PLATED 0.76 MICRONS		
47080-1030	GOLD PLATED 0.38 MICRONS		
47080-2010	GOLD FLASH	NATURE COLOR	
47080-2020	GOLD PLATED 0.76 MICRONS		
47080-2030	GOLD PLATED 0.38 MICRONS		
47080-3010	GOLD FLASH	PROCESS BLUE C DELTA E<3	
47080-3020	GOLD PLATED 0.76 MICRONS		
47080-3030	GOLD PLATED 0.38 MICRONS		

UPDATE DRAWING
EC NO: SH2009-0041 2008/08/06
DRWN:LSONG09 2008/08/07
CH'KD:XJSONG 2008/08/26
APPR:HWWANG
DESCRIPTION
REV

QUALITY SYMBOLS
▼=0
Ⓒ▽=0

GENERAL TOLERANCES (UNLESS SPECIFIED)

	mm	INCH
4 PLACES	± ---	± ---
3 PLACES	± ---	± ---
2 PLACES	± 0.15	± ---
1 PLACE	± 0.25	± ---
ANGULAR ± 1 °		

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

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

DRAWN BY: GRATE MA DATE: 2004/06/14
CHECKED BY: GRATE MA DATE: 2004/06/14
APPROVED BY: VINCENT DATE: 2004/06/14

TITLE: SATA SYSTEM PLUG PEG INSERT TYPE WITH SHROUD

molex MOLEX INCORPORATED

MATERIAL NO.: SEE TABLE
DOCUMENT NO.: SD-47080-001
SHEET NO.: 2 OF 2
SIZE: A3

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