

**PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION**

**Part Number:** [0674901220](#)  
**Status:** **Active**  
**Overview:** [serial\\_ata\\_products](#)  
**Description:** 1.27mm (.050") Pitch Serial ATA Header, Standard Type, Surface Mount, Right Angle, 7 Circuits, without Mylar, Gold (Au) Flash, Tray Package, Lead-free

**Documents:**

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

**General**

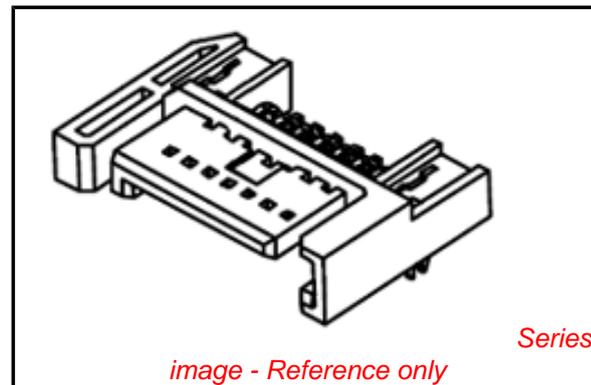
Product Family	PCB Headers
Series	<a href="#">67490</a>
Application	Board-to-Board, Wire-to-Board
Comments	Standard Type Without Mylar
MolexKits	Yes
Overview	<a href="#">serial_ata_products</a>
Product Name	Serial ATA

**Physical**

Breakaway	No
Circuits (Loaded)	7
Circuits (maximum)	7
Color - Resin	Black
Durability (mating cycles max)	50
First Mate / Last Break	Yes
Glow-Wire Compliant	No
Guide to Mating Part	Yes
Keying to Mating Part	Yes
Lock to Mating Part	No
Material - Plating Mating	Gold
Material - Plating Termination	Tin
Material - Resin	High Temperature Thermoplastic
Number of Rows	1
Orientation	Right Angle
PCB Locator	No
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
Pitch - Term. Interface (in)	0.050 In
Pitch - Term. Interface (mm)	1.27 mm
Plating min: Mating (µin)	2
Plating min: Mating (µm)	0.05
Plating min: Termination (µin)	50.8
Plating min: Termination (µm)	1.27
Polarized to Mating Part	No
Shrouded	No
Stackable	No
Temperature Range - Operating	-35°C to +85°C
Termination Interface: Style	Surface Mount

**Electrical**

Current - Maximum per Contact	1.5A
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**EU RoHS**

**ELV and RoHS  
Compliant**  
**REACH SVHC  
Contains SVHC: No**  
**Halogen-Free  
Status**

**China RoHS**



**Need more information on product  
environmental compliance?**

Email [productcompliance@molex.com](mailto: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**

[67490Series](#)

**Mates With**

Serial ATA Signal Connector [67489](#) , [88755](#)

Voltage - Maximum

15V DC

**Material Info**

**Reference - Drawing Numbers**

Packaging Specification

PK-67490-001

Product Specification

PS-67490-001

Sales Drawing

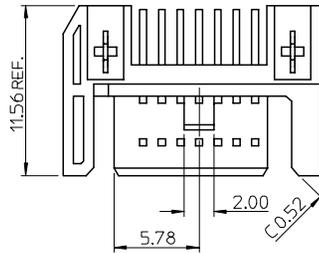
SD-67490-002

This document was generated on 06/07/2010

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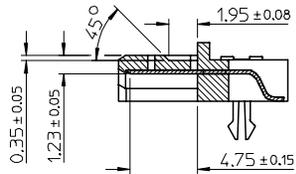
P/N	CONTACT AREA PLATEING	PACKAGE METHOD	REMARK
67490-1220	GOLD FLASH	WITHOUT MYLAR	PURE TIN
67490-1221	0.76 MICRONS GOLD PLATED	TRAY PACKAGE	
67490-1225	0.38 MICRONS GOLD PLATED	PK-67490-001	
67490-1230	GOLD FLASH	WITH MYLAR	
67490-1231	0.76 MICRONS GOLD PLATED	TAPE REEL	
67490-1235	0.38 MICRONS GOLD PLATED	PK-67490-000	
67490-1240	GOLD FLASH	WITH MYLAR	
67490-1241	0.76 MICRONS GOLD PLATED	TUBE PACKAGE	
67490-1245	0.38 MICRONS GOLD PLATED	PK-67490-002	

▽

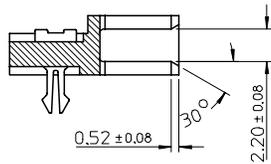


NOTES:

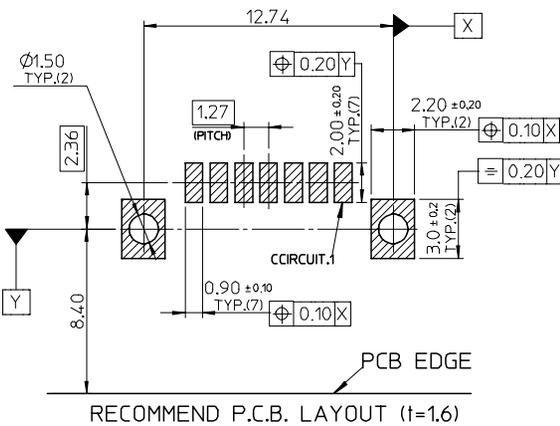
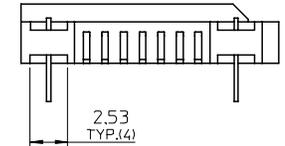
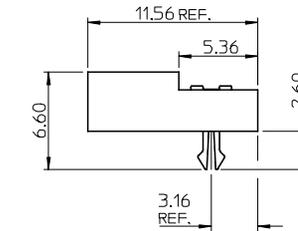
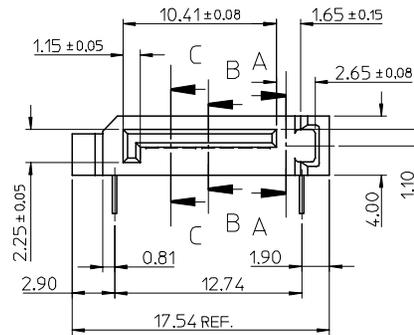
- MATERIAL:  
HOUSING: HIGH TEMPERATURE THERMAL PLASTIC  
GLASS FILLED, UL94V-0, COLOR: BLACK  
TERMINAL/FORKLOCK: COPPER ALLOY  
MYLAR: ADHENSIVE MYLAR 4.5MM X 15.5MM
- TERMINAL PLATING:  
CONTACT AREA: GOLD PLATED  
SOLDERING TAIL: 1.27 MICRONS MINIMUM TIN PLATED  
UNDER PLATE: NICKEL 1.27 MICRONS MINIMUM NICKEL PLATED
- FORKLOCK PLATING:  
1.27 MICRONS MINIMUM TIN PLATED OVERALL 1.27 MICRONS MINIMUM NICKEL UNDER-PLATED
- PACKAGING SPECIFICATION REFER TO TABLE
- PRODUCT SPECIFICATION REFER TO PS-67490-001
- MATING PART: 67538, 67489



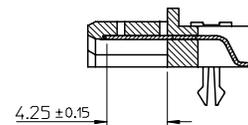
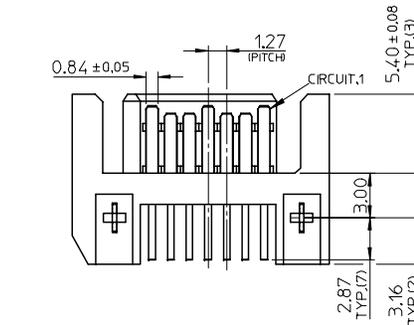
SECTION B-B  
SCALE 3:1



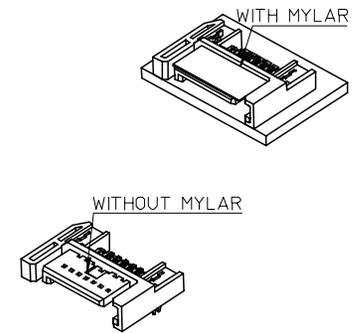
SECTION A-A  
SCALE 3:1



RECOMMEND P.C.B. LAYOUT (t=1.6)



SECTION C-C  
SCALE 3:1



OBSCOLESC PART	EC NO: SH2006-0566	2006/05/29
DRWN: BCHENZ6	2006/05/29	
CHKD: GRATE MA	2006/05/29	
APPR: INCHEM	2006/05/30	

QUALITY SYMBOLS	DESCRIPTION
▽=0	
▽=0	

GENERAL TOLERANCES (UNLESS SPECIFIED)	
mm	INCH
4 PLACES ± ---	± ---
3 PLACES ± ---	± ---
2 PLACES ± 0.15	± ---
1 PLACE ± 0.25	± ---
ANGULAR ± 3°	
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS	

DIMENSION STYLE	
MM ONLY	
DRAWN BY	DATE
RICHARD	'01/08/08
CHECKED BY	DATE
VINCENT	'01/08/08
APPROVED BY	DATE
ERICK	'01/08/08
MATERIAL NO.	DOCUMENT NO.
SEE TABLE	SD-67490-002
SIZE	SHEET NO.
A3	1 OF 1

SCALE	DESIGN UNITS	THIRD ANGLE PROJECTION
4:1	METRIC	
TITLE		
SATA SYSTEM PLUG R/A STANDARD TYPE		
MOLEX INCORPORATED		
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