

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number:

0678005011

Status:

Active

Overview:

serial_ata_products

Description:

1.27mm (.050") Pitch Serial ATA High Speed Header, Vertical, Surface Mount, with Locking Latch, 7 Circuits, Gold (Au) Flash Plating, for 1.60mm (.063") PCB, with PCB Locator Pegs, Lead-free

Documents:

3D Model

Drawing (PDF)

RoHS Certificate of Compliance (PDF)

Agency Certification

CSA	LR 19980
UL	E29179

General

Product Family	PCB Headers
Series	67800
Application	Board-to-Board, Wire-to-Board
Comments	Staggered Solder Pin Metal Post Length 3.05mm (.120")
Overview	serial_ata_products
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
Flammability	94V-0
Glow-Wire Compliant	No
Guide to Mating Part	No
Keying to Mating Part	Yes
Lock to Mating Part	Yes
Material - Metal	Brass
Material - Plating Mating	Gold
Material - Plating Termination	Tin
Material - Resin	High Temperature Thermoplastic
Number of Rows	1
Orientation	Vertical
PCB Locator	Yes
PCB Retention	Yes
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)	75
Plating min: Termination (µm)	1.9
Polarized to Mating Part	Yes
Polarized to PCB	Yes
Shrouded	Fully
Stackable	No

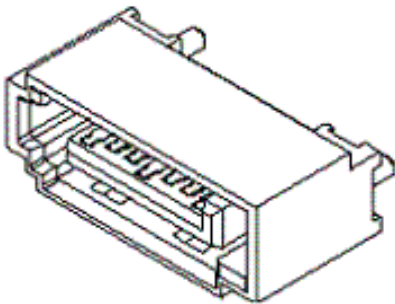


image - Reference only

Series

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

67800Series

Temperature Range - Operating	-35°C to +85°C
Termination Interface: Style	Surface Mount

Electrical

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

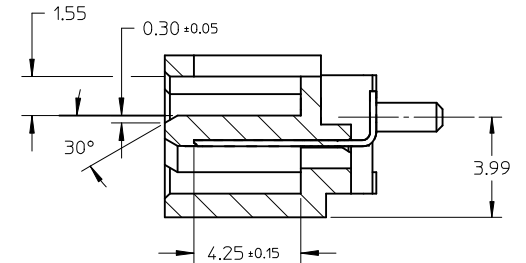
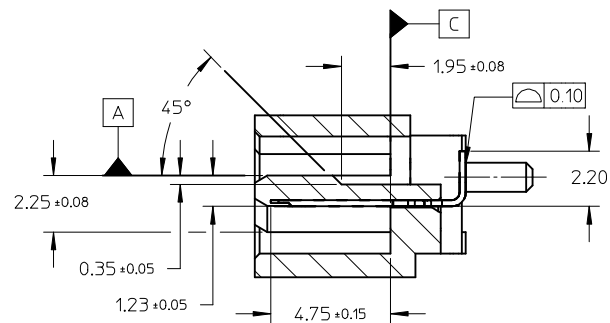
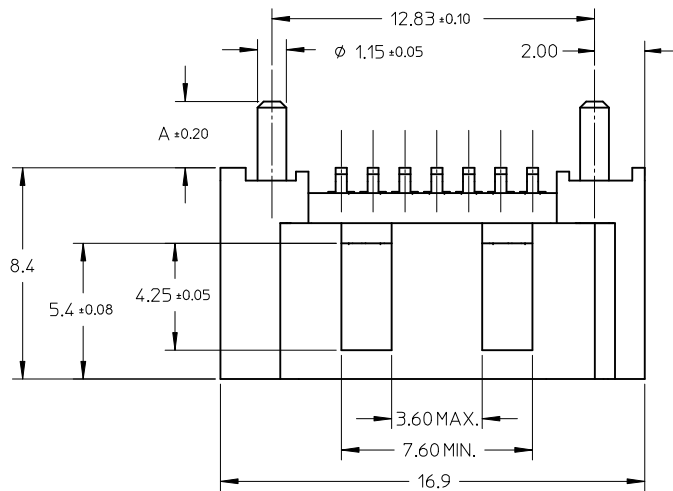
Material Info

Reference - Drawing Numbers

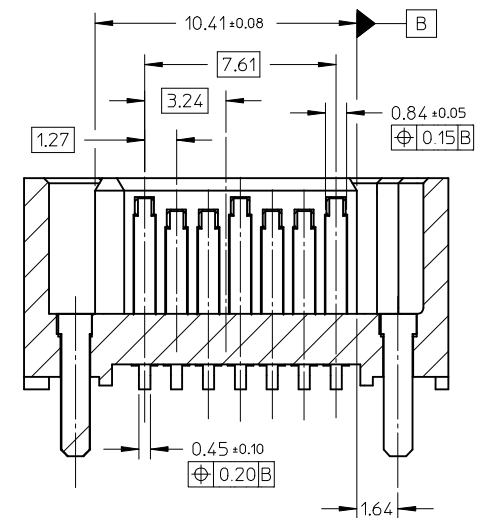
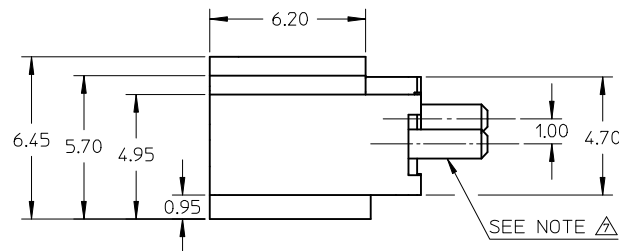
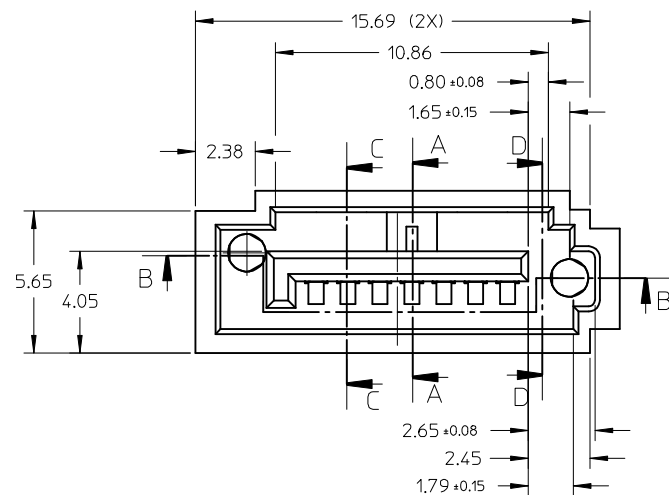
Packaging Specification	PK-67800-001
Sales Drawing	SD-67800-005

This document was generated on 05/26/2010

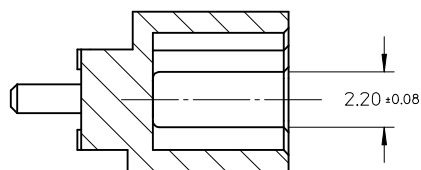
PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION



SECTION C-C



SECTION B-B



SECTION D-D

REVISED	EC NO: SH2010-0043	DRW:GILLI CHKD:XJONG APP:RZHANG	2009/08/07 2009/08/10 2009/09/13	DESCRIPTION	QUALITY SYMBOLS ▽=0 □=0	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE 5:1	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION				
							mm	INCH	DRAWN BY GRATE MA		DATE 2004/02/02	TITLE HIGH SPEED CONNECTOR 1.27MM PITCH VERTICAL SMT SOLDER TAIL				
						4 PLACES	± ---	± ---	CHECKED BY YAJUN		DATE 2004/02/02					
						3 PLACES	± ---	± ---	APPROVED BY SAM		DATE 2004/02/02	MOLEX INCORPORATED				
						2 PLACES	± 0.15	± ---	MATERIAL NO.		DOCUMENT NO.					
						1 PLACE	± 0.25	± ---	SEE SHEET 2		SD-67800-005		1 OF 2			
						ANGULAR ± 1 °										
						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						

10 9 8 7 6 5 4 3 2 1

NOTES:

1. MATERIAL:

HOUSING: HIGH TEMPERATURE THERMAL PLASTIC, GLASS FILLED,
UL94V-0, COLOR: REFER TO CHART.

TERMINAL: BRASS

POST: BRASS

2. TERMINAL PLATING:

CONTACT AREA: (a) GOLD FLASH

(b) GOLD, THICKNESS=0.76 MICRON MINIMUM

(C) GOLD, THICKNESS=0.38 MICRON MINIMUM

SOLDER TAIL: TIN, THICKNESS=1.27 MICRON MINIMUM

UNDER PLATE: NICKEL PLATED, THICKNESS=1.27 MICRON MINIMUM

3. POST PLATING: UNDER PLATE: NICKEL, THICKNESS=1.25 MICRON MINIMUM

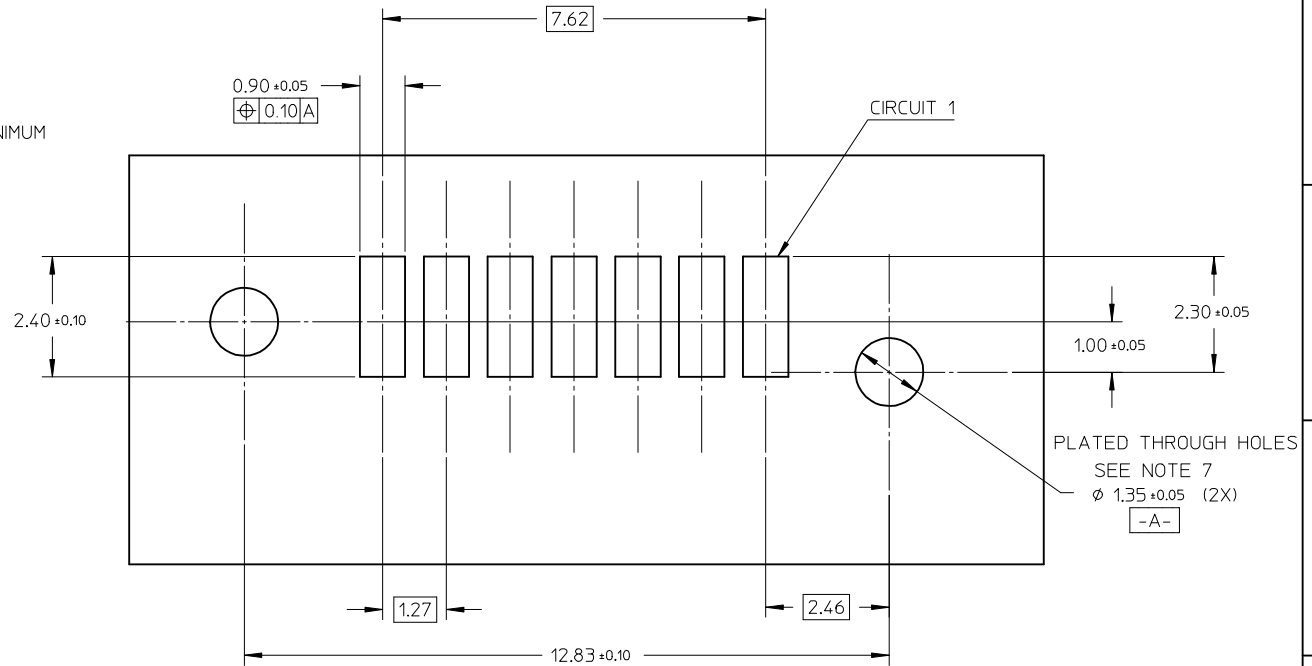
TIN, THICKNESS=1.9 MICRON MINIMUM OVER ALL

4. PACKAGING: PK-67800-001

5. PRODUCT SPECIFICATION REFER TO PS-67491-001

6. RECOMMENDED SOLDERING PROCESS: IR PROCESS

△ METAL POSTS TO BE SOLDERED TO PCB



RECOMMENDED P.C.B LAYOUT
CONNECTOR SIDE

678005025	SEE NOTE2(c)	BLACK	3.45	PURE TIN
678005022	SEE NOTE2(b)			
678005021	SEE NOTE2(a)			
678005015	SEE NOTE2(c)	BLACK	3.05	
678005012	SEE NOTE2(b)			
678005011	SEE NOTE2(a)			
678005005	SEE NOTE2(c)	BLACK	2.65	
678005004	SEE NOTE2(c)	YELLOW		
678005003	SEE NOTE2(c)	BLUE		
678005002	SEE NOTE2(b)	BLACK		
678005001	SEE NOTE2(a)			
MATERIAL NO	PLATING TYPE	HOUSING COLOR	DIM A	REMARK

REVISED EC NO: SH2010-0043 2009/08/07 TDRWN:ELLI CHKD:XJONG APPR:RZHANG 2009/08/10 2009/09/13	DESCRIPTION	QUALITY SYMBOLS ▽=0 C=0	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE 5:1	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION 			
			4 PLACES 3 PLACES 2 PLACES 1 PLACE	± mm	± INCH	DRAWN BY GRATE MA	DATE 2004/02/02	TITLE HIGH SPEED CONNECTOR 1.27MM PITCH VERTICAL SMT SOLDER TAIL				
				± ---	± ---	CHECKED BY	DATE					
				± 0.15	± ---	YA JUN	2004/02/02	MOLEX INCORPORATED				
				± 0.25	± ---	APPROVED BY	DATE					
ANGULAR ± 1 °		SAM	2004/02/02	DOCUMENT NO.		SD-67800-005		SHEET NO. 2 OF 2				
REV	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								