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Part Number: [0678005003](#)
Status: **Active**
Overview: [serial_ata_products](#)
Description: PURE TIN 1.27MM PITCH VERTICLE SMT

Documents:

[3D Model](#) [RoHS Certificate of Compliance \(PDF\)](#)
[Drawing \(PDF\)](#)

Agency Certification

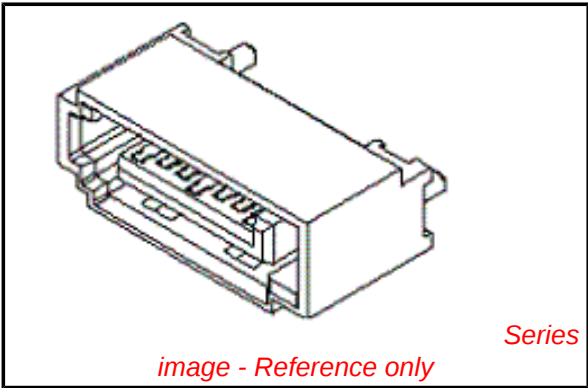
CSA LR 19980
UL E29179

General

Product Family PCB Headers
Series [67800](#)
Application Board-to-Board, Wire-to-Board
Comments Staggered Solder Pin|Metal Post Length 2.65mm (.104")
Overview [serial_ata_products](#)
Product Name Serial ATA

Physical

Breakaway No
Circuits (Loaded) 7
Circuits (maximum) 7
Color - Resin Blue
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) 15
Plating min: Mating (µm) 0.38
Plating min: Termination (µin) 75
Plating min: Termination (µm) 1.9
Polarized to Mating Part Yes
Polarized to PCB Yes
Shrouded Fully
Stackable No
Temperature Range - Operating -35°C to +85°C
Termination Interface: Style Surface Mount



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
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](#)

Electrical

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

Solder Process Data

Duration at Max. Process Temperature (seconds)	3
Lead-free Process Capability	Reflow Capable (SMT only)
Max. Cycles at Max. Process Temperature	1
Process Temperature max. C	255

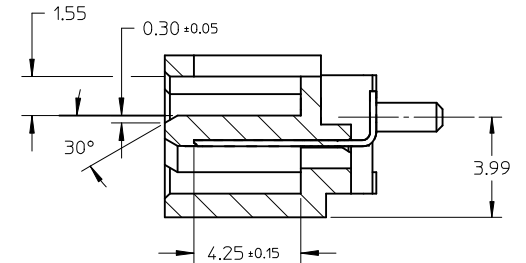
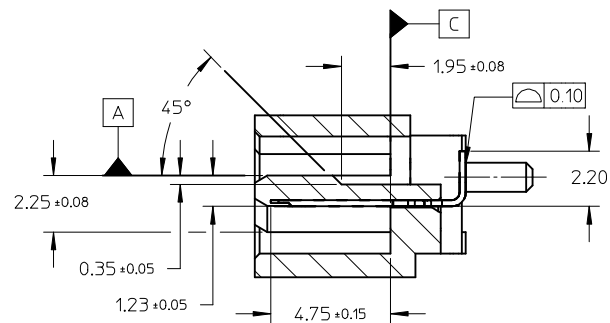
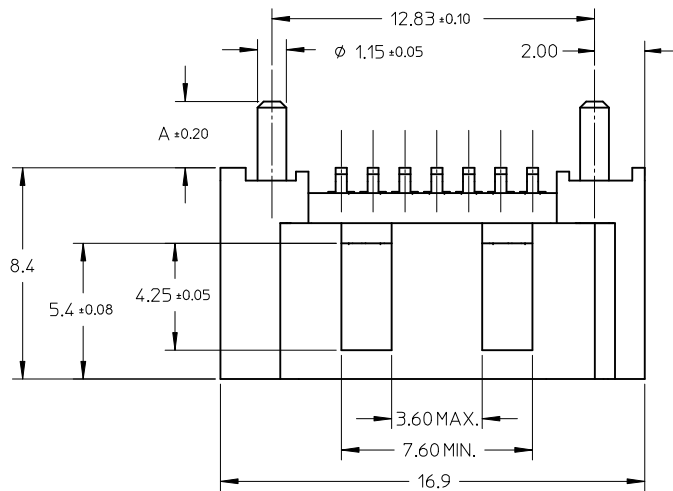
Material Info

Reference - Drawing Numbers

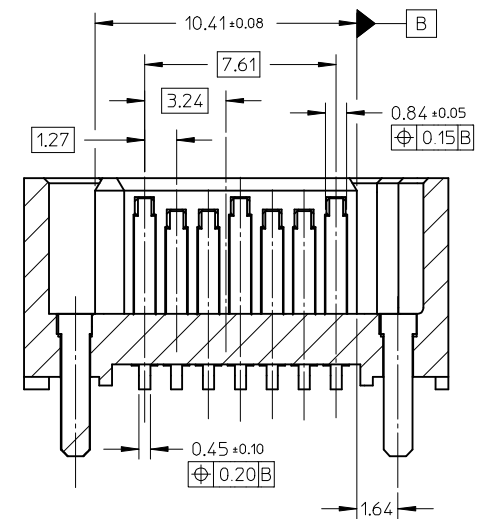
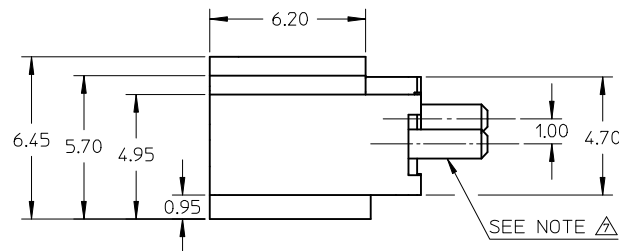
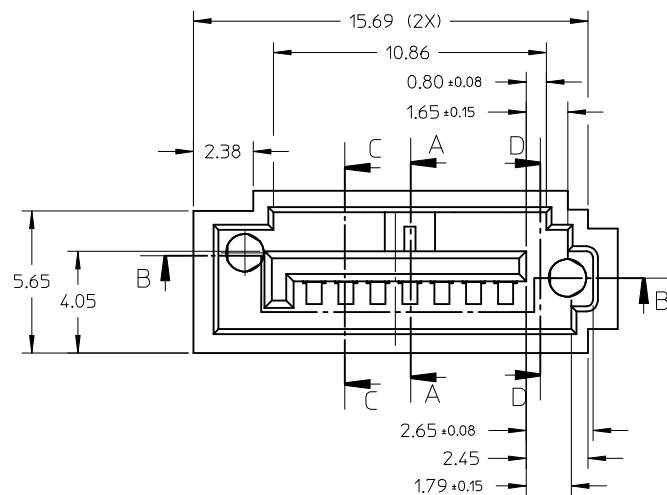
Packaging Specification	PK-67800-001
Sales Drawing	SD-67800-005

This document was generated on 05/26/2010

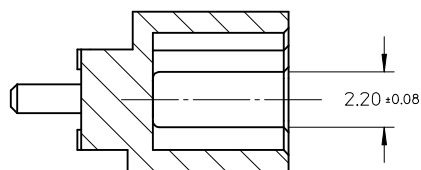
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SECTION C-C



SECTION B-B



SECTION D-D

REVISED EC NO: SH2010-0043 DRAWN:GLLI CHK'D:XJONG APPR: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 MOLEX INCORPORATED	
				2 PLACES	± 0.15	± ---	MATERIAL NO.		DOCUMENT NO.			
				1 PLACE	± 0.25	± ---	SEE SHEET 2		SD-67800-005		1 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			

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

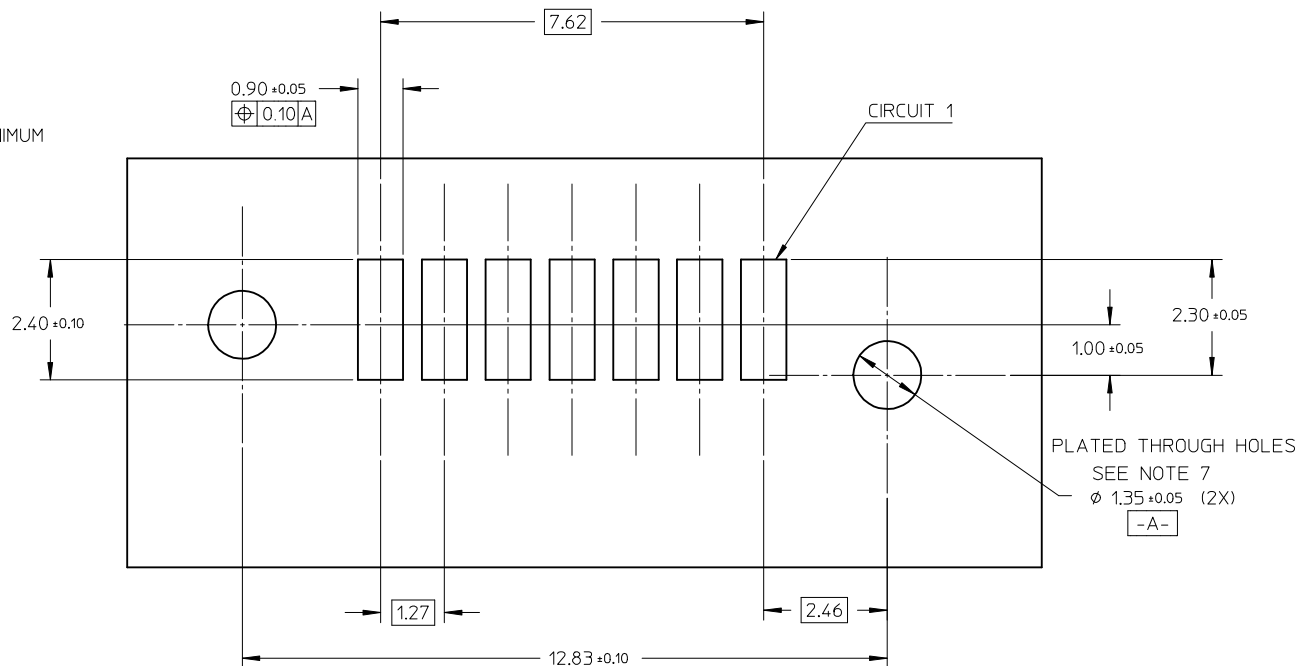
TIN, THICKNESS=1.9 MICRON MINIMUM OVER ALL

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 DRAWN:GLLI CHKD:XJSONG APPR:RZHANG 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				
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			2 PLACES	± 0.15	± ---								
			1 PLACE	± 0.25	± ---	ANGULAR ± 1 °		DOCUMENT NO. SD-67800-005		SHEET NO. 2 OF 2			
REV	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS			MATERIAL NO. SEE CHART									
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