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Part Number: [0879331007](#)
Status: **Active**
Description: 1.27mm (.050") Pitch Wire-to-Board Header, Dual Row, SMT, Vertical, 10 Circuits, 0.05µm (2µ") Gold (Au) Plating, Mating Pin Length 1.65mm (0.065"), with Cap, without Peg, Tube Packaging, Lead-free

Documents:
[3D Model](#) [Product Specification PS-87933-001 \(PDF\)](#)
[Drawing \(PDF\)](#) [RoHS Certificate of Compliance \(PDF\)](#)

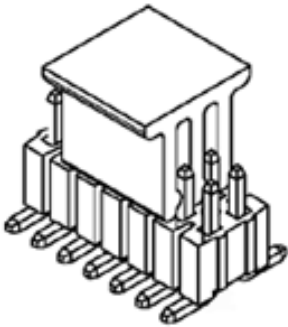
General

Product Family	PCB Headers
Series	87933
Application	Wire-to-Board
Comments	With Cap
Product Name	N/A

Physical

Breakaway	Yes
Circuits (Loaded)	10
Circuits (maximum)	10
Color - Resin	Black
Durability (mating cycles max)	100
First Mate / Last Break	No
Glow-Wire Compliant	No
Guide to Mating Part	No
Keying to Mating Part	None
Lock to Mating Part	No
Mated Height (in)	0.065 In
Mated Height (mm)	1.65 mm
Material - Metal	Copper Alloy
Material - Plating Mating	Gold
Material - Plating Termination	Nickel
Material - Resin	High Temperature Thermoplastic
Number of Rows	2
Orientation	Vertical
PCB Locator	No
PCB Retention	None
Packaging Type	Tube
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
Plating min: Termination (µm)	1.27
Polarized to Mating Part	No
Polarized to PCB	No
Robotic Placement	Pick and Place Cap
Shrouded	No
Stackable	No
Temperature Range - Operating	-55°C to +105°C
Termination Interface: Style	Surface Mount

Electrical



Series

image - Reference only

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
[87933Series](#)

Mates With
[78120](#) Wire-to-Board Receptacles

Current - Maximum per Contact	1.75A
Voltage - Maximum	125V

Solder Process Data

Duration at Max. Process Temperature (seconds)	14
Lead-free Process Capability	Wave Capable (TH only)
Max. Cycles at Max. Process Temperature	3
Process Temperature max. C	260

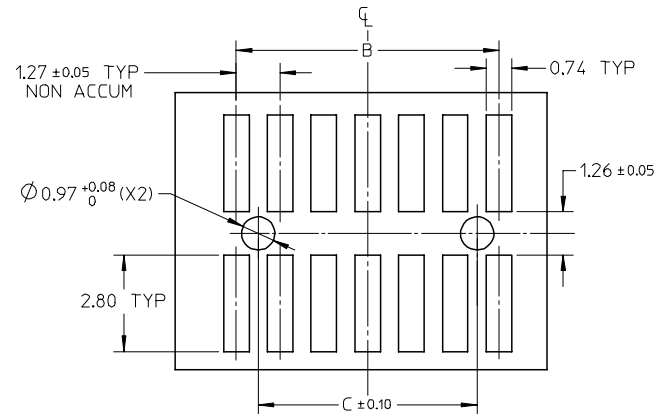
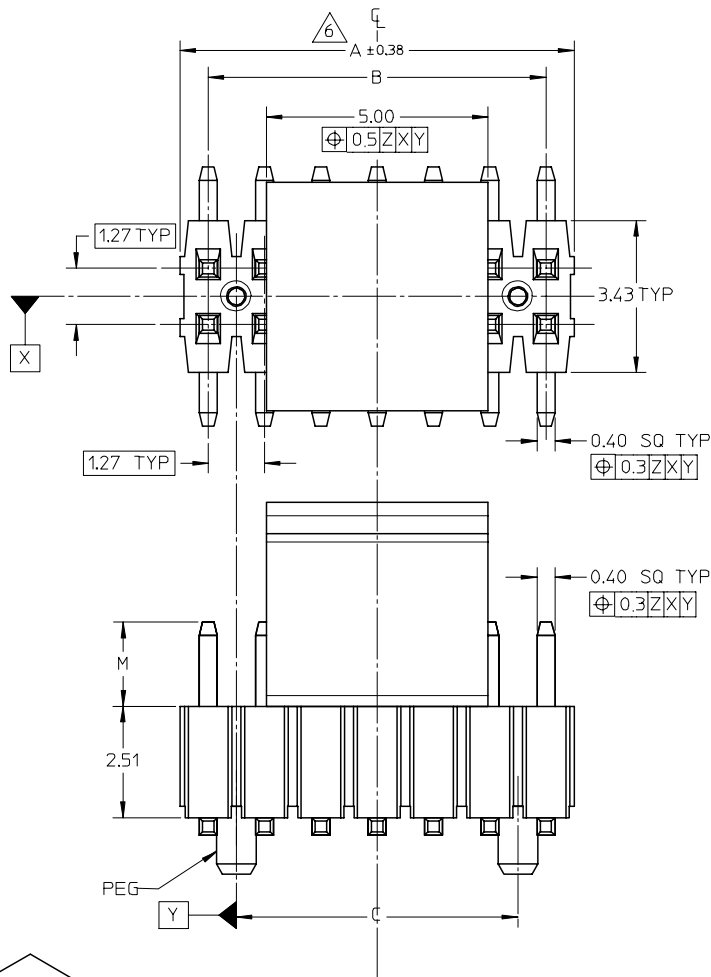
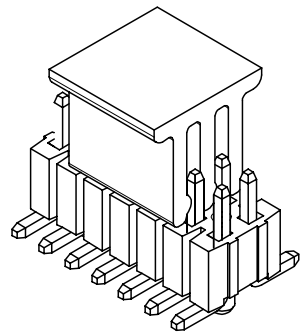
Material Info

Reference - Drawing Numbers

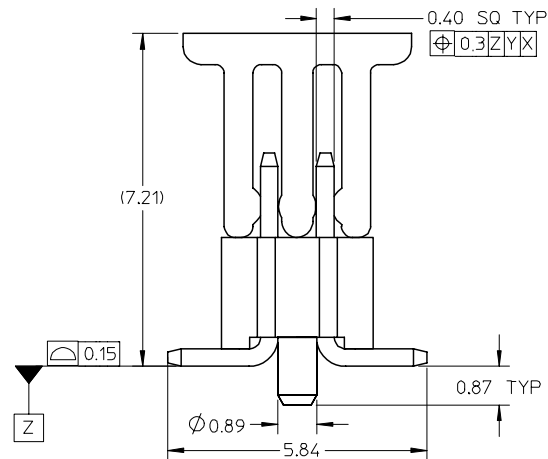
Product Specification	PS-87933-001
Sales Drawing	SD-87933-014

This document was generated on 03/29/2010

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RECOMMENDED P.C.B. LAYOUT



ADD. OPTION	2007/10/10
EC NO: S2008-0216	2007/10/11
DRWN: CWL	2007/10/11
CHKD: KWLEE	2007/10/29
APPR: KWLEE	2007/10/29
REV	DESCRIPTION
A2	

QUALITY SYMBOLS
$\nabla = 0$
$\nabla = 0$

GENERAL TOLERANCES (UNLESS SPECIFIED)		
	mm	INCH
4 PLACES	$\pm$ ---	$\pm$ ---
3 PLACES	$\pm$ ---	$\pm$ ---
2 PLACES	± 0.20	$\pm$ ---
1 PLACE	$\pm$ ---	$\pm$ ---
ANGULAR $\pm 3^\circ$		
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		

DIMENSION STYLE	
MM ONLY	
DRAWN BY	DATE
LNG	2006/02/14
CHECKED BY	DATE
BOKOK	2006/03/27
APPROVED BY	DATE
PTL IM	2006/03/29
MATERIAL NO.	
SEE TABLE	
SIZE	A3

SCALE NTS	DESIGN UNITS METRIC		THIRD ANGLE PROJECTION
TITLE			
1.27MM PITCH SMT HEADER WITH PEG AND CAP PACKED IN TUBE			
 MOLEX INCORPORATED			
DOCUMENT NO. SD-87933-014			SHEET NO. 1 OF 5

10					9		8		7		6		5		4		3		2		1				
F	P/N WITH CAP PACKED IN TUBE	PEG	CKT SIZE	PLATING OPTIONS	DIM. M						P/N WITH CAP PACKED IN TUBE	PEG	CKT SIZE	PLATING OPTIONS	DIM. M						P/N WITH CAP PACKED IN TUBE	PEG	CKT SIZE	PLATING OPTIONS	DIM. M
	87933-1007	N	10	1	1.65						87933-2007	N	20	1	1.65						87933-3007	N	30	1	1.65
	87933-1008	N	10	2	1.65						87933-2008	N	20	2	1.65						87933-3008	N	30	2	1.65
	87933-1009	N	10	3	1.65						87933-2009	N	20	3	1.65						87933-3009	N	30	3	1.65
	87933-1010	N	10	4	1.65						87933-2010	N	20	4	1.65						87933-3010	N	30	4	1.65
E	87933-1011	N	10	1	1.91						87933-2011	N	20	1	1.91						87933-3011	N	30	1	1.91
	87933-1012	N	10	2	1.91						87933-2012	N	20	2	1.91						87933-3012	N	30	2	1.91
	87933-1013	N	10	3	1.91						87933-2013	N	20	3	1.91						87933-3013	N	30	3	1.91
	87933-1014	N	10	4	1.91						87933-2014	N	20	4	1.91						87933-3014	N	30	4	1.91
	87933-1015	N	10	1	3.05						87933-2015	N	20	1	3.05						87933-3015	N	30	1	3.05
D	87933-1016	N	10	2	3.05						87933-2016	N	20	2	3.05						87933-3016	N	30	2	3.05
	87933-1017	N	10	3	3.05						87933-2017	N	20	3	3.05						87933-3017	N	30	3	3.05
	87933-1018	N	10	4	3.05						87933-2018	N	20	4	3.05						87933-3018	N	30	4	3.05
C	P/N WITH CAP PACKED IN TUBE	PEG	CKT SIZE	PLATING OPTIONS	DIM. M																				
	87933-4007	N	40	1	1.65																				
	87933-4008	N	40	2	1.65																				
	87933-4009	N	40	3	1.65																				
	87933-4010	N	40	4	1.65																				
B	87933-4011	N	40	1	1.91																				
	87933-4012	N	40	2	1.91																				
	87933-4013	N	40	3	1.91																				
	87933-4014	N	40	4	1.91																				
	87933-4015	N	40	1	3.05																				
A	87933-4016	N	40	2	3.05																				
	87933-4017	N	40	3	3.05																				
	87933-4018	N	40	4	3.05																				
tb_frame_A3_P_AM_T Rev. E 2006/04/15					9		8		7		6		5		4		3		2		1				

ADD. OPTION EC NO: S2008-0216 DRWN:CLAM 2007/10/10 CHKD:KMLEE 2007/10/11 APPR:KMLEE 2007/10/29	REV DESCRIPTION	QUALITY SYMBOLS	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE NTS	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION	
		▽=0 ▽=0		mm	INCH	DRAWN BY LNG	DATE 2006/02/14	TITLE 1.27MM PITCH SMT HEADER WITH PEG AND CAP PACKED IN TUBE		
			4 PLACES	± ---	± ---	CHECKED BY BOKOK	DATE 2006/03/27			
			3 PLACES	± ---	± ---	APPROVED BY PTLIM	DATE 2006/03/29			
			2 PLACES	± 0.20	± ---	MATERIAL NO.	DOCUMENT NO.			
		1 PLACE	± ---	± ---	SEE TABLE		SD-87933-014		SHEET NO. 3 OF 5	
		ANGULAR ± 3 °		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		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				
F	P/N WITH CAP PACKED IN TUBE	PEG	CKT SIZE	PLATING OPTIONS	DIM. M						P/N WITH CAP PACKED IN TUBE	PEG	CKT SIZE	PLATING OPTIONS	DIM. M						P/N WITH CAP PACKED IN TUBE	PEG	CKT SIZE	PLATING OPTIONS	DIM. M																								
	87933-5007	Y	50	1	1.65						87933-6007	N	60	1	1.65						87933-6807	N	68	1	1.65																								
	87933-5008	Y	50	2	1.65						87933-6008	N	60	2	1.65						87933-6808	N	68	2	1.65																								
	87933-5009	Y	50	3	1.65						87933-6009	N	60	3	1.65						87933-6809	N	68	3	1.65																								
	87933-5010	Y	50	4	1.65						87933-6010	N	60	4	1.65						87933-6810	N	68	4	1.65																								
E	87933-5011	Y	50	1	1.91						87933-6011	N	60	1	1.91						87933-6811	N	68	1	1.91																								
	87933-5012	Y	50	2	1.91						87933-6012	N	60	2	1.91						87933-6812	N	68	2	1.91																								
	87933-5013	Y	50	3	1.91						87933-6013	N	60	3	1.91						87933-6813	N	68	3	1.91																								
	87933-5014	Y	50	4	1.91						87933-6014	N	60	4	1.91						87933-6814	N	68	4	1.91																								
	87933-5015	Y	50	1	3.05						87933-6015	N	60	1	3.05						87933-6815	N	68	1	3.05																								
D	87933-5016	Y	50	2	3.05						87933-6016	N	60	2	3.05						87933-6816	N	68	2	3.05																								
	87933-5017	Y	50	3	3.05						87933-6017	N	60	3	3.05						87933-6817	N	68	3	3.05																								
	87933-5018	Y	50	4	3.05						87933-6018	N	60	4	3.05						87933-6818	N	68	4	3.05																								
C	P/N WITH CAP PACKED IN TUBE	PEG	CKT SIZE	PLATING OPTIONS	DIM. M																																												
	87933-7007	N	70	1	1.65																																												
	87933-7008	N	70	2	1.65																																												
	87933-7009	N	70	3	1.65																																												
	87933-7010	N	70	4	1.65																																												
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	87933-7018	N	70	4	3.05																																												

ADD. OPTION EC NO: S2008-0216 2007/10/10 DRWN:CNLW CHKD:KMLEE 2007/10/11 APPR:KMLEE 2007/10/29	DESCRIPTION REV	QUALITY SYMBOLS	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE NTS	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION			
		 		mm	INCH	DRAWN BY LNG	DATE 2006/02/14	TITLE 1.27MM PITCH SMT HEADER WITH PEG AND CAP PACKED IN TUBE				
			4 PLACES	± ---	± ---	CHECKED BY BOKOK	DATE 2006/03/27					
			3 PLACES	± ---	± ---	APPROVED BY PTL IM	DATE 2006/03/29					
			2 PLACES	± 0.20	± ---	MATERIAL NO. SEE TABLE	DOCUMENT NO. SD-87933-014					
			1 PLACE	± ---	± ---							
		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				
							SHEET NO. 4 OF 5					

tb_frame_A3_P_AM_T Rev. E 2006/04/15					9					8					7					6					5					4					3					2					1				
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