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Part Number: [0878912817](#)
Status: **Active**
Overview: [kk](#)
Description: 2.54mm (.100") Pitch KK® Header, Through Hole, Breakaway, Vertical, 28 Circuits, 2.50µm (100µ") Tin (Sn) Overall Plating, with Cap, Tape on Reel Packaging, Lead-free

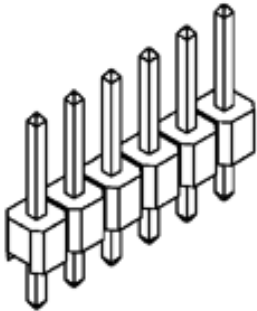
Documents:
[Drawing \(PDF\)](#) [RoHS Certificate of Compliance \(PDF\)](#)
[Product Specification PS-87920-019 \(PDF\)](#)

General

Product Family	PCB Headers
Series	87891
Application	Board-to-Board, Wire-to-Board
Comments	With Cap
Overview	kk
Product Name	KK®

Physical

Breakaway	Yes
Circuits (Loaded)	28
Circuits (maximum)	28
Color - Resin	Black
First Mate / Last Break	No
Glow-Wire Compliant	No
Guide to Mating Part	No
Keying to Mating Part	None
Lock to Mating Part	None
Mated Height (in)	0.520 In
Mated Height (mm)	13.21 mm
Material - Metal	Copper Alloy
Material - Plating Mating	Tin
Material - Plating Termination	Nickel
Material - Resin	Nylon
Number of Rows	1
Orientation	Vertical
PC Tail Length (in)	0.059 In
PC Tail Length (mm)	1.50 mm
PCB Locator	No
PCB Retention	None
PCB Thickness Recommended (in)	0.063 In
PCB Thickness Recommended (mm)	1.60 mm
Packaging Type	Embossed Tape on Reel
Pitch - Mating Interface (in)	0.100 In
Pitch - Mating Interface (mm)	2.54 mm
Pitch - Term. Interface (in)	0.100 In
Pitch - Term. Interface (mm)	2.54 mm
Plating min: Mating (µin)	100
Plating min: Mating (µm)	2.50
Plating min: Termination (µin)	50
Plating min: Termination (µm)	1.27
Polarized to Mating Part	No
Polarized to PCB	No
Shrouded	No
Stackable	No
Temperature Range - Operating	-55°C to +105°C



Series

image - Reference only

EU RoHS
ELV and RoHS
Compliant
REACH SVHC
Not Reviewed
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
[87891Series](#)

Mates With
KK® PCB Receptacles [4455](#). SL™ IDT
Housings [70430](#) , [7720](#), [70400](#). C-Grid®
PCB Receptacles [90147](#), [90148](#)

Termination Interface: Style	Through Hole
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Electrical

Current - Maximum per Contact	3A
Voltage - Maximum	250V

Solder Process Data

Duration at Max. Process Temperature (seconds)	12
Lead-free Process Capability	Wave Capable (TH only)
Max. Cycles at Max. Process Temperature	1
Process Temperature max. C	260

Material Info

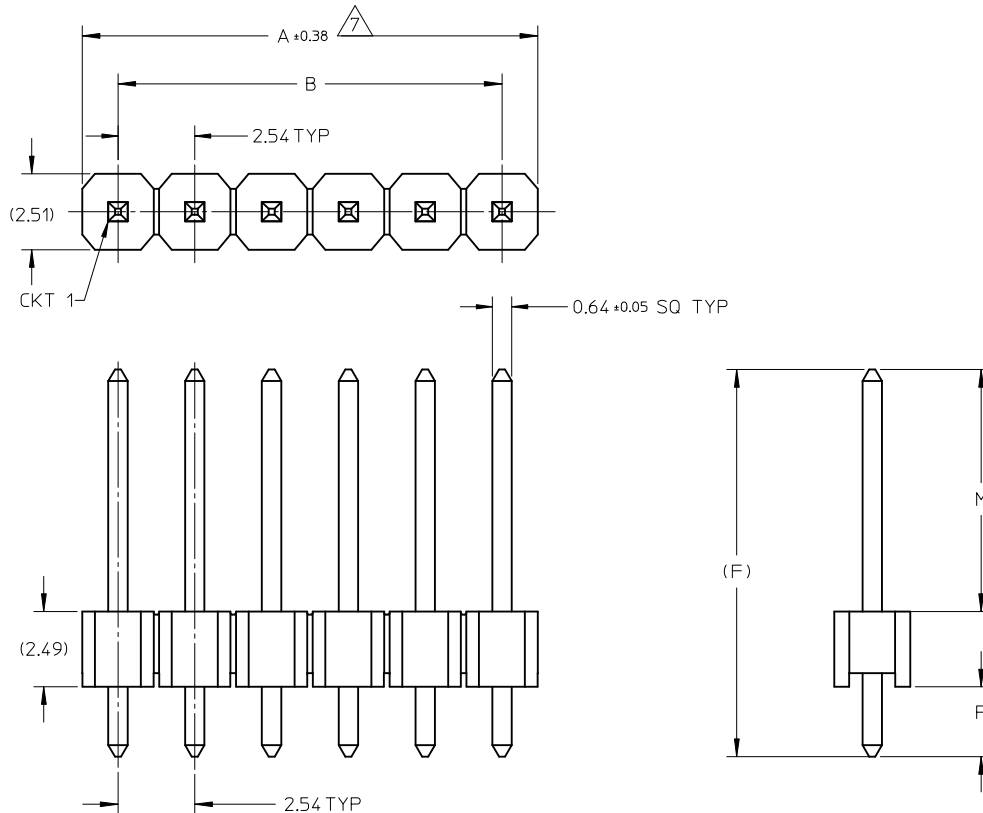
Reference - Drawing Numbers

Packaging Specification	PK-89990-489
Product Specification	PS-87920-019
Sales Drawing	SD-87891-001

This document was generated on 05/25/2010

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ASSEMBLY WITHOUT CAP



NOTES

1. MATERIAL:

HSG: NYLON, GLASS-FILLED, UL94V-0 COLOR: BLACK
PIN: 0.64MM SQ, COPPER ALLOY

2. PLATING TYPE:

- (1) GOLD FLASH OVER
1.25μm MIN. NICKEL OVERALL.
- (2) GOLD FLASH ON CONTACT AND
2.50μm MIN. TIN ON SOLDER TAIL OVER
1.25μm MIN. NICKEL OVERALL.
- (3) 0.38μm MIN. GOLD PLATE ON CONTACT AND
2.00μm MIN. TIN ON SOLDER TAIL OVER
1.25μm MIN. NICKEL OVERALL.
- (4) 0.75μm MIN. GOLD PLATE ON CONTACT AND
2.00μm MIN. TIN ON SOLDER TAIL OVER
1.25μm MIN. NICKEL OVERALL.
- (5) 2.50μm MIN TIN OVERALL
1.25μm MIN NICKEL OVERALL

3. PRODUCT SPECIFICATION: PS-87920-019

4. PACKAGING TYPE: SEE TABLE

5. WAFER TO BE FLAT WITHIN 0.003 mm/mm

6. RECOMMENDED PCB THICKNESS IS 1.60mm±0.10

△7. IRREGULAR CIRCUIT CUTOFF WITHIN BREAKAWAY SECTION IS PERMISSIBLE. CUTTING OR CHIPPING OF THE MAIN BODY IS NOT ACCEPTABLE

8. THE ABOVE CKT 6 IS FOR ILLUSTRATION PURPOSE ONLY

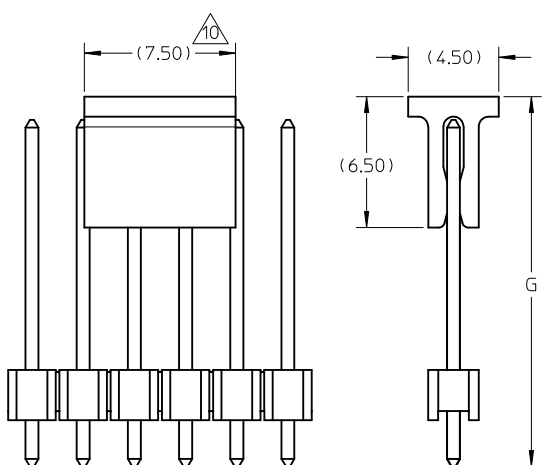
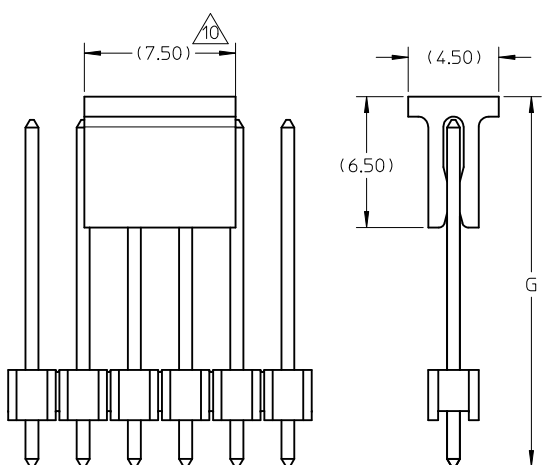
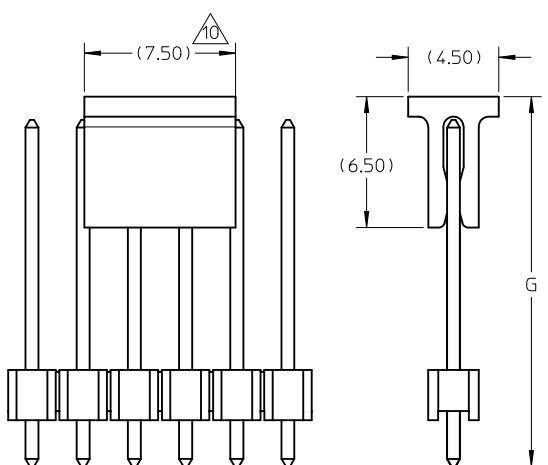
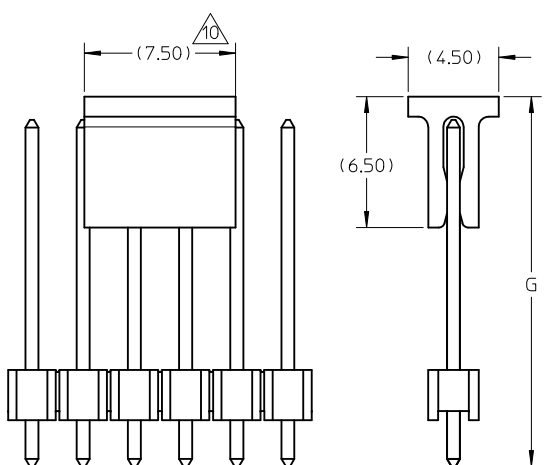
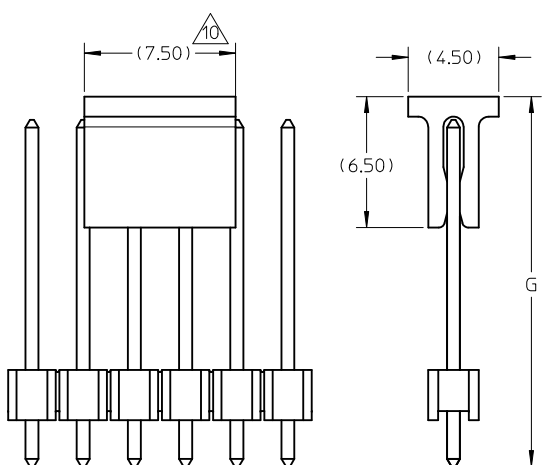
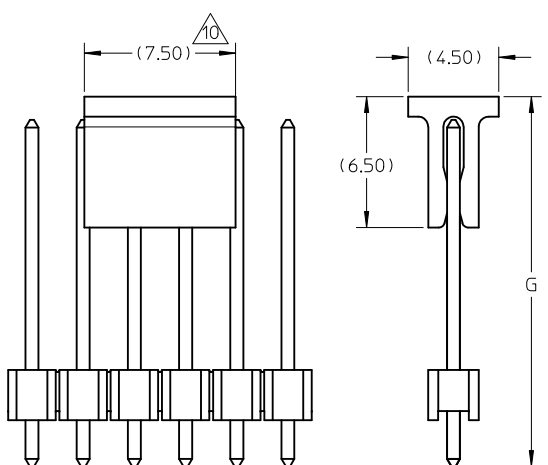
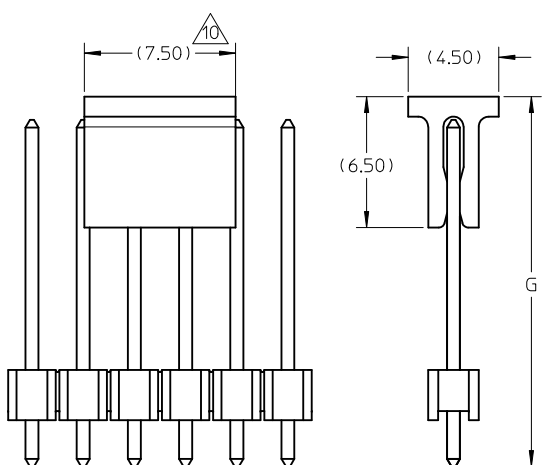
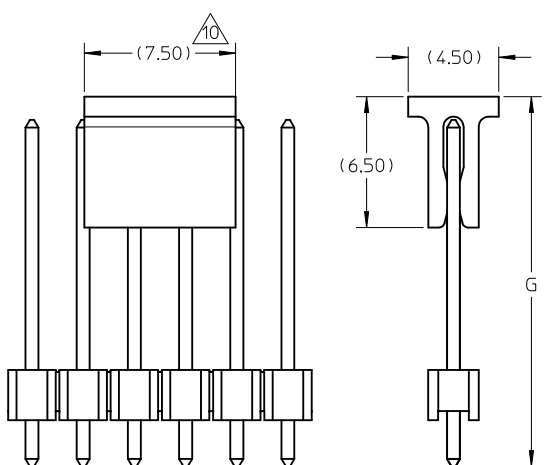
9. PACKAGING SPECIFICATION:

TRAY: PK-89990-489

BULK: PK-89990-491

△10. CAP TO BE PLACED AT THE CENTER OF THE CONNECTOR.

CN-0072.878910751/0851 EC NO: S2010-0506 2009/12/16 DRWN:SKANG 2010/04/26 CHKD:ATSEE 2010/04/27 APPR:MLONG	DESCRIPTION REV	QUALITY SYMBOLS $F_A=0$ $F_C=0$ $F_P=0$	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY	SCALE NTS	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION
					DRAWN BY KCHO	DATE 2004/03/24	CUSTOM HEADER 2.54MM PITCH, SINGLE ROW SINGLE WAFER, T/H HEADER MOLEX INCORPORATED SD-87891-001	
					CHECKED BY PTLIM	DATE 2004/04/02		
					APPROVED BY SCLOW	DATE 2004/04/08		
C8	REV	DESCRIPTION	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		MATERIAL NO. SEE TABLE	DOCUMENT NO. SD-87891-001	SHEET NO. 1 OF 3	
					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											
CKT SIZE	DIMENSION		ASSEMBLY WITH CAP				ASSY W/CAP IN T&R	PART NO. IN TRAY PACKAGING	PART NO. IN BULK PACKAGING	CKT SIZE	VOID PIN	KINK PIN	G	DIMENSION			PLATING TYPE					
	A	B												OAL	MATING END	SOLDER TAIL						
F														M	P							
F	02	5.08	2.54		-	87891-0200	-	02	-	-	-	11.76	6.09	3.18	5							
	03	7.62	5.08		-	87891-0207	-	02	-	-	-	9.80	4.00	3.31	5							
	04	10.16	7.62		-	87891-0208	-	02	-	-	-	7.49	4.00	1.00	2							
	05	12.70	10.16		-	87891-0209	-	02	-	-	-	10.80	5.08	3.23	5							
	06	15.24	12.70		-	87891-0210	-	02	-	-	-	31.00	25.54	2.97	5							
E	07	17.78	15.24			-	87891-0402	-	04	2	-	-	10.80	5.89	2.41	5						
	08	20.32	17.78			-	87891-0411	-	04	-	-	-	10.09	4.00	3.60	5						
	09	22.86	20.32			-	87891-0407	-	04	-	-	-	9.80	4.00	3.31	5						
	10	25.40	22.86			-	87891-0408	-	04	-	-	-	31.00	25.54	2.97	5						
	11	27.94	25.40			-	87891-0500	-	05	-	-	-	11.94	6.10	3.30	5						
D	12	30.48	27.94			-	87891-0501	-	05	-	-	-	13.62	8.08	3.05	5						
	13	33.02	30.48			-	87891-0502	-	05	2	-	-	10.80	5.89	2.41	5						
	14	35.56	33.02			-	87891-0503	-	05	2	-	-	45.00	13.51	29.00	5						
	15	38.10	35.56			-	87891-0504	-	05	2	-	-	45.00	13.51	29.00	3						
	16	40.64	38.10			-	87891-0507	-	05	4	-	-	10.92	5.84	2.59	3						
C	17	43.18	40.64			-	87891-0516	-	05	-	-	-	32.49	16.00	14.00	4						
	18	45.72	43.18			-	87891-0602	-	06	-	-	-	12.80	8.00	2.31	5						
	19	48.26	45.72			-	87891-0700	-	07	-	-	-	11.94	6.10	3.30	5						
	20	50.80	48.26			-	87891-0751	-	07	-	-	-	13.74	8.00	3.25	5						
	21	53.34	50.80			-	87891-0851	-	08	-	-	-	13.74	8.00	3.25	5						
B	22	55.88	53.34			-	-	87891-2601	26	4, 7, 17	-	-	11.13	5.59	3.05	3						
	23	58.42	55.88			87891-1817	-	-	18	-	-	18.36	17.20	13.21	1.50	5						
	24	60.96	58.42			87891-1818	-	-	18	-	-	18.36	17.20	13.21	1.50	3						
	25	63.50	60.96			87891-2817	-	-	28	-	-	18.36	17.20	13.21	1.50	5						
	26	66.04	63.50			87891-2818	-	-	28	-	-	18.36	17.20	13.21	1.50	3						
A	27	68.58	66.04																			
	28	71.12	68.58																			
	29	73.66	71.12																			
	30	76.20	73.66																			
	31	78.74	76.20																			
A	32	81.28	78.74																			
	33	83.82	81.28																			
	34	86.36	83.82																			
	35	88.90	86.36																			
	36	91.44	88.90																			
A	37	93.98	91.44																			
	38	96.52	93.98																			
	39	99.06	96.52																			
	40	101.60	99.06																			

RECOMMENDED P.C.B. HOLE LAYOUT

CKT 1

2.54 ±0.05 TYP
NON-ACCUM.

Ø1.14 ±0.05 TYP

CN-0072.878910751/0851
EC NO: S2010-0506
DRWN:SKANG
CHKD:ATSEE
APPR:MLONG

2009/12/16
2010/04/26
2010/04/27

DESCRIPTION

REV

QUALITY
SYMBOLS

⌵

F

=

0

⌵

F

=

0

⌵

F

=

0

DRAFT WHERE APPLICABLE
MUST REMAIN
WITHIN DIMENSIONS

GENERAL TOLERANCES
(UNLESS SPECIFIED)

mm

INCH

4 PLACES ± --- ± ---

3 PLACES ± --- ± ---

2 PLACES ± 0.2 ± ---

1 PLACE ± --- ± ---

ANGULAR ± 3 °

DIMENSION STYLE
MM ONLY

DRAWN BY

DATE

CHECKED BY

DATE

APPROVED BY

DATE

MATERIAL NO.

DOCUMENT NO.

SHEET NO.

SCALE
NTS

DESIGN UNITS
METRIC

THIRD ANGLE
PROJECTION

CUSTOM HEADER
2.54MM PITCH, SINGLE ROW
SINGLE WAFER, T/H HEADER

MOLEX INCORPORATED

SD-87891-001

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tb_frame_A3_P_AM.T
Rev. F 2009/06/18

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8

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6

5

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