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Part Number: [0878980368](#)
Status: **Active**
Overview: [kk](#)
Description: 2.54mm (.100") Pitch KK® Header, Surface Mount, Breakaway, Vertical, 3 Circuits, 2.54µm (100µ") Tin (Sn) Plating, Tape on Reel Packaging, with Cap, Lead-free

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

Agency Certification

UL E29179

General

Product Family PCB Headers
Series [87898](#)
Application Board-to-Board, Wire-to-Board
Overview [kk](#)
Product Name KK®

Physical

Breakaway Yes
Circuits (Loaded) 3
Circuits (maximum) 3
Color - Resin Black
First Mate / Last Break No
Flammability 94V-0
Glow-Wire Compliant No
Guide to Mating Part No
Keying to Mating Part None
Lock to Mating Part None
Material - Metal Copper Alloy
Material - Plating Mating Tin
Material - Plating Termination Tin
Material - Resin Nylon
Number of Rows 1
Orientation Vertical
PCB Locator No
PCB Retention None
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
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

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

Solder Process Data

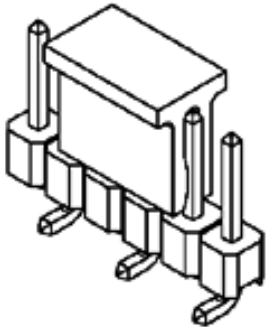


image - Reference only

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
[87898Series](#)

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

Duration at Max. Process Temperature (seconds)	10
Lead-free Process Capability	Reflow Capable (SMT only)
Max. Cycles at Max. Process Temperature	3
Process Temperature max. C	260

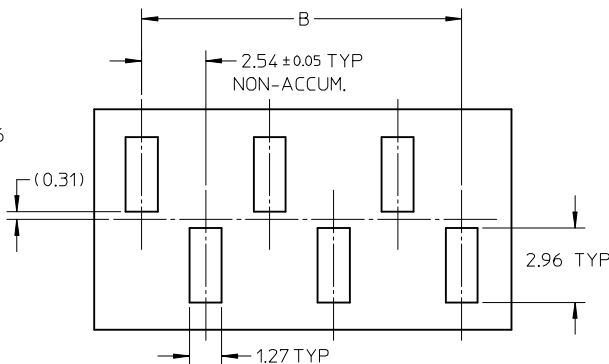
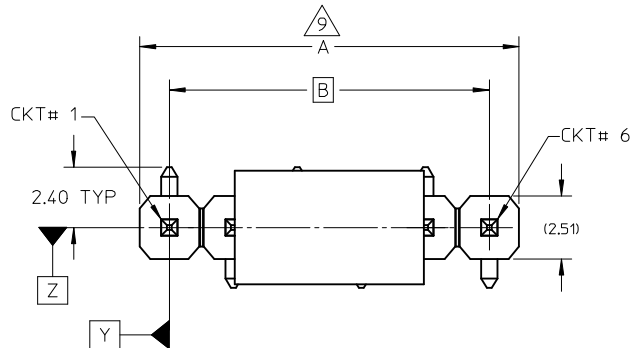
Material Info

Reference - Drawing Numbers

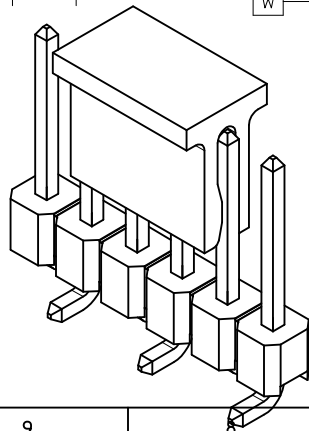
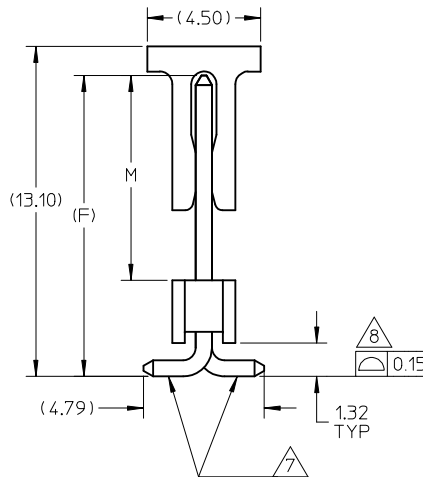
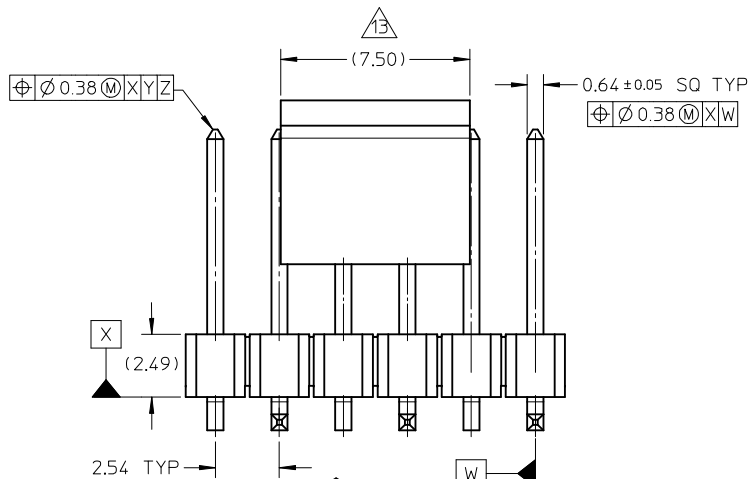
Packaging Specification	PK-89990-489
Product Specification	PS-87920-019
Sales Drawing	SD-87898-003

This document was generated on 05/25/2010

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RECOMMENDED PCB LAYOUT



NOTES:

- MATERIAL:
HSG: NYLON, GLASS-FILLED, UL94V-0, COLOR: BLACK
PIN: 0.64MM SQ, COPPER ALLOY
- 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.
(4) 0.38µm MIN. GOLD PLATE ON CONTACT AND
2.00µm MIN. TIN ON SOLDER TAIL OVER
1.25µm MIN. NICKEL OVERALL.
(5) 0.75µm MIN. GOLD PLATE ON CONTACT AND
2.00µm MIN. TIN ON SOLDER TAIL OVER
1.25µm MIN. NICKEL OVERALL.
(6) 2.50µm MIN. TIN OVERALL
1.25µm MIN. NICKEL OVERALL
- PRODUCT SPECIFICATION: PS-87920-019
- PACKAGING TYPE: SEE TABLE
- PACKAGING SPEC: PK-89990-545
- WAFER TO BE FLAT WITHIN 0.003 mm/mm
- BEND DEPRESSION IS ACCEPTED SO LONG AS IT DOES NOT AFFECT THE OVERALL COPLANARITY OF TAIL
- COPLANARITY IS TO BE MEASURED BY RESTING THE SOLDER TAIL ON A FLAT SURFACE
- IRREGULAR CIRCUIT CUTOFF WITHIN BREAKAWAY SECTION IS PERMISSIBLE. CUTTING OR CHIPPING OF THE MAIN BODY IS NOT ACCEPTABLE
- TUBE LENGTH AS PER STANDARD 560mm
- RECOMMENDED PCB THICKNESS IS 1.60mm ± 0.10
- THE ABOVE CKT 6 IS FOR ILLUSTRATION PURPOSE ONLY
- CAP LOCATION IS CENTERED ALONG THE MATING ENDS AS SHOWN. TOP SURFACE OF CAP TO BE FLAT FOR THE PURPOSE OF PICK & PLACE BY VACUUM SUCTION NOZZLE.

REVISE T&R QTY EC NO: S2009-0327 DRWN:SKANG CHKD:ATSEE APPR:MLONG 2008/11/26 2008/11/27 2008/11/28		QUALITY SYMBOLS ▽=0 ◻=0	DESCRIPTION	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE NTS	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION		
				mm	INCH	DRAWN BY SKLIM01	DATE 2005/10/26	TITLE CUSTOM HEADER 2.54MM PITCH SINGLE ROW SINGLE WAFER SMT HEADER				
				3 PLACES	± ---	± ---	CHECKED BY NAGESHKN					
				2 PLACES	± 0.2	± ---	APPROVED BY PTLIM	DATE 2005/11/07	MOLEX INCORPORATED			
B2		REV		ANGULAR ± 3 °		MATERIAL NO.		DOCUMENT NO.		SHEET NO.		
				DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SEE TABLE		SD-87898-003		1 OF 17		
THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION												

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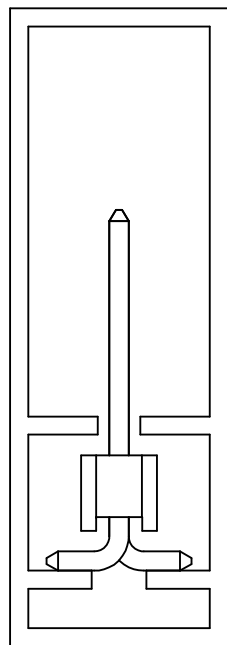
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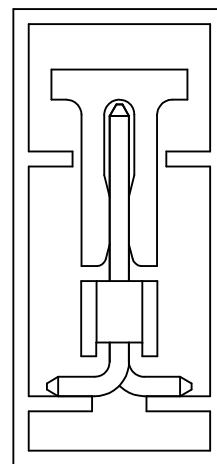
2

1

PART WITHOUT CAP IN TUBE ORIENTATION



PART WITH CAP IN TUBE ORIENTATION



REVISE T&R QTY				EC NO: S2009-0327				2008/11/126				2008/11/27				2008/11/28				DESCRIPTION				QUALITY SYMBOLS		GENERAL TOLERANCES (UNLESS SPECIFIED)				DIMENSION STYLE MM ONLY				SCALE NTS		DESIGN UNITS METRIC		THIRD ANGLE PROJECTION	
B2				DRWN:SKANG CHKD:ATSEE APPR:MLONG				2008/11/126				2008/11/27				2008/11/28				DESCRIPTION				=0 =0		mm		INCH		DRAWN BY		DATE		TITLE CUSTOM HEADER 2.54MM PITCH SINGLE ROW SINGLE WAFER SMT HEADER					
																										4 PLACES		± ---		± ---		SKL1M01				2005/10/26			
																										3 PLACES		± ---		± ---		CHECKED BY				DATE			
																										2 PLACES		± 0.2		± ---		NAGESHKN				2005/10/30			
																										1 PLACE		± ---		± ---		APPROVED BY				DATE			
REV				B2				DRWN:SKANG				CHKD:ATSEE				APPR:MLONG				DESCRIPTION				=0 =0		ANGULAR ± 3 °				PTLIM		2005/11/07		MOLEX INCORPORATED					
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																														SEE TABLE		SD-87898-003		2 OF 17					
B2				DRWN:SKANG				CHKD:ATSEE				APPR:MLONG				DESCRIPTION				=0 =0		SIZE		A3		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION													

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D

C

B

A

[illegible]

	10	9	8	7	6	5	4	3	2	1				
	PACKAGING OPTION PART NO.						CKT SIZE	VOID POSITION	PLATING TYPE	DIMENSION				
F	TRY WITHOUT CAP	TRY WITH CAP	TUBE WITHOUT CAP	TUBE WITH CAP	TAPE & REEL WITHOUT CAP	TAPE & REEL WITH CAP				A	B	F	M	
	-----	-----	87898-0461	-----	-----	-----	4	-----	1	10.16	7.62	11.94	8.13	
	-----	-----	87898-0462	-----	-----	-----	4	-----	2	10.16	7.62	11.94	8.13	
	-----	-----	87898-0464	-----	-----	-----	4	-----	4	10.16	7.62	11.94	8.13	
	-----	-----	87898-0465	-----	-----	-----	4	-----	5	10.16	7.62	11.94	8.13	
	-----	-----	87898-0466	-----	-----	-----	4	-----	6	10.16	7.62	11.94	8.13	
E														
	-----	-----	87898-0561	-----	-----	-----	5	-----	1	12.70	10.16	11.94	8.13	
	-----	-----	87898-0562	-----	-----	-----	5	-----	2	12.70	10.16	11.94	8.13	
	-----	-----	87898-0564	-----	-----	-----	5	-----	4	12.70	10.16	11.94	8.13	
	-----	-----	87898-0565	-----	-----	-----	5	-----	5	12.70	10.16	11.94	8.13	
D	-----	-----	87898-0566	87898-0567	-----	87898-0568	5	-----	6	12.70	10.16	11.94	8.13	
	-----	-----	87898-0661	-----	-----	-----	6	-----	1	15.24	12.70	11.94	8.13	
	-----	-----	87898-0662	-----	-----	-----	6	-----	2	15.24	12.70	11.94	8.13	
	-----	-----	87898-0664	-----	-----	-----	6	-----	4	15.24	12.70	11.94	8.13	
C	-----	-----	87898-0665	-----	-----	-----	6	-----	5	15.24	12.70	11.94	8.13	
	-----	-----	87898-0666	-----	-----	-----	6	-----	6	15.24	12.70	11.94	8.13	
B														
A														

	10	9	8	7	6	5	4	3	2	1																																												
	PACKAGING OPTION PART NO.						CKT SIZE	VOID POSITION	PLATING TYPE	DIMENSION																																												
F	TRY WITHOUT CAP	TRY WITH CAP	TUBE WITHOUT CAP	TUBE WITH CAP	TAPE & REEL WITHOUT CAP	TAPE & REEL WITH CAP				A	B	F	M																																									
	-----	-----	87898-07261	-----	-----	-----	7	----	1	17.78	15.24	11.94	8.13																																									
	-----	-----	87898-0762	-----	-----	-----	7	----	2	17.78	15.24	11.94	8.13																																									
	-----	-----	87898-0764	-----	-----	-----	7	----	4	17.78	15.24	11.94	8.13																																									
	-----	-----	87898-0765	-----	-----	-----	7	----	5	17.78	15.24	11.94	8.13																																									
	-----	-----	87898-0766	-----	-----	-----	7	----	6	17.78	15.24	11.94	8.13																																									
E																																																						
	-----	-----	87898-0861	-----	-----	-----	8	----	1	20.32	17.78	11.94	8.13																																									
	-----	-----	87898-0862	-----	-----	-----	8	----	2	20.32	17.78	11.94	8.13																																									
	-----	-----	87898-0864	-----	-----	-----	8	----	4	20.32	17.78	11.94	8.13																																									
	-----	-----	87898-0865	-----	-----	-----	8	----	5	20.32	17.78	11.94	8.13																																									
D	-----	-----	87898-0866	-----	-----	-----	8	----	6	20.32	17.78	11.94	8.13																																									
	-----	-----	87898-0961	-----	-----	-----	9	----	1	22.86	20.32	11.94	8.13																																									
	-----	-----	87898-0962	-----	-----	-----	9	----	2	22.86	20.32	11.94	8.13																																									
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tb_frame_A3_P_AM_T
Rev. E 2006/04/15

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	-----	-----	87898-2966	-----	-----	-----	29	----	6	73.66	71.12	11.94	8.13																																																		
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	-----	-----	87898-3061	-----	-----	-----	30	----	1	76.20	73.66	11.94	8.13																																																		
	-----	-----	87898-3062	-----	-----	-----	30	----	2	76.20	73.66	11.94	8.13																																																		
	-----	-----	87898-3064	-----	-----	-----	30	----	4	76.20	73.66	11.94	8.13																																																		
	-----	-----	87898-3065	-----	-----	-----	30	----	5	76.20	73.66	11.94	8.13																																																		
C	-----	-----	87898-3066	-----	-----	-----	30	----	6	76.20	73.66	11.94	8.13																																																		
B																																																															
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<table><tr><td rowspan="5">REVISE T&R QTY EC NO: S2009-0327 2008/11/26 DRWN:SKANG CHKD:ATSEE 2008/11/27 APPR:MLONG 2008/11/28</td><td rowspan="5">QUALITY SYMBOLS ▽=0 ◻=0</td><td colspan="2">GENERAL TOLERANCES (UNLESS SPECIFIED)</td><td colspan="2">DIMENSION STYLE MM ONLY</td><td>SCALE NTS</td><td>DESIGN UNITS METRIC</td><td colspan="2">THIRD ANGLE PROJECTION</td></tr><tr><td rowspan="4">4 PLACES 3 PLACES 2 PLACES 1 PLACE</td><td>mm</td><td>INCH</td><td>DRAWN BY SKL IM01</td><td>DATE 2005/10/26</td><td colspan="4" rowspan="2">TITLE CUSTOM HEADER 2.54MM PITCH SINGLE ROW SINGLE WAFER SMT HEADER</td></tr><tr><td>± ---</td><td>± ---</td><td>CHECKED BY NAGESHKN</td><td>DATE 2005/10/30</td></tr><tr><td>± 0.2</td><td>± ---</td><td>APPROVED BY PTL IM</td><td>DATE 2005/11/07</td><td colspan="4" rowspan="2">MOLEX INCORPORATED</td></tr><tr><td>± ---</td><td>± ---</td><td colspan="2">MATERIAL NO. SEE TABLE</td><td>DOCUMENT NO. SD-87898-003</td><td>SHEET NO. 13 OF 17</td></tr><tr><td colspan="2">DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS</td><td>SIZE A3</td><td colspan="10">THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION</td></tr></table>														REVISE T&R QTY EC NO: S2009-0327 2008/11/26 DRWN:SKANG CHKD:ATSEE 2008/11/27 APPR:MLONG 2008/11/28	QUALITY SYMBOLS ▽=0 ◻=0	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE NTS	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION		4 PLACES 3 PLACES 2 PLACES 1 PLACE	mm	INCH	DRAWN BY SKL IM01	DATE 2005/10/26	TITLE CUSTOM HEADER 2.54MM PITCH SINGLE ROW SINGLE WAFER SMT HEADER				± ---	± ---	CHECKED BY NAGESHKN	DATE 2005/10/30	± 0.2	± ---	APPROVED BY PTL IM	DATE 2005/11/07	MOLEX INCORPORATED				± ---	± ---	MATERIAL NO. SEE TABLE		DOCUMENT NO. SD-87898-003	SHEET NO. 13 OF 17	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									
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fb_frame_A3_P_AM_T Rev. E 2006/04/15	9	8	7	6	5	4	3	2	1																																																						

	10	9	8	7	6	5	4	3	2	1				
F	PACKAGING OPTION PART NO.						CKT SIZE	VOID POSITION	PLATING TYPE	DIMENSION				
	TRY WITHOUT CAP	TRY WITH CAP	TUBE WITHOUT CAP	TUBE WITH CAP	TAPE & REEL WITHOUT CAP	TAPE & REEL WITH CAP				A	B	F	M	
	-----	-----	87898-3161	-----	-----	-----	31	----	1	78.74	76.20	11.94	8.13	
	-----	-----	87898-3162	-----	-----	-----	31	----	2	78.74	76.20	11.94	8.13	
	-----	-----	87898-3164	-----	-----	-----	31	----	4	78.74	76.20	11.94	8.13	
E	-----	-----	87898-3165	-----	-----	-----	31	----	5	78.74	76.20	11.94	8.13	
	-----	-----	87898-3166	-----	-----	-----	31	----	6	78.74	76.20	11.94	8.13	
	-----	-----	87898-3261	-----	-----	-----	32	----	1	81.28	78.74	11.94	8.13	
	-----	-----	87898-3262	-----	-----	-----	32	----	2	81.28	78.74	11.94	8.13	
D	-----	-----	87898-3264	-----	-----	-----	32	----	4	81.28	78.74	11.94	8.13	
	-----	-----	87898-3265	-----	-----	-----	32	----	5	81.28	78.74	11.94	8.13	
	-----	-----	87898-3266	-----	-----	-----	32	----	6	81.28	78.74	11.94	8.13	
	-----	-----	87898-3361	-----	-----	-----	33	----	1	83.82	81.28	11.94	8.13	
C	-----	-----	87898-3362	-----	-----	-----	33	----	2	83.82	81.28	11.94	8.13	
	-----	-----	87898-3364	-----	-----	-----	33	----	4	83.82	81.28	11.94	8.13	
	-----	-----	87898-3365	-----	-----	-----	33	----	5	83.82	81.28	11.94	8.13	
	-----	-----	87898-3366	-----	-----	-----	33	----	6	83.82	81.28	11.94	8.13	
B														
A														

	10	9	8	7	6	5	4	3	2	1				
F	PACKAGING OPTION PART NO.						CKT SIZE	VOID POSITION	PLATING TYPE	DIMENSION				
	TRY WITHOUT CAP	TRY WITH CAP	TUBE WITHOUT CAP	TUBE WITH CAP	TAPE & REEL WITHOUT CAP	TAPE & REEL WITH CAP				A	B	F	M	
	-----	-----	87898-3461	-----	-----	-----	34	----	1	86.36	83.82	11.94	8.13	
	-----	-----	87898-3462	-----	-----	-----	34	----	2	86.36	83.82	11.94	8.13	
	-----	-----	87898-3464	-----	-----	-----	34	----	4	86.36	83.82	11.94	8.13	
	-----	-----	87898-3465	-----	-----	-----	34	----	5	86.36	83.82	11.94	8.13	
	-----	-----	87898-3466	-----	-----	-----	34	----	6	86.36	83.82	11.94	8.13	
		-----	-----	87898-3561	-----	-----	-----	35	----	1	88.90	86.36	11.94	
	-----	-----	87898-3562	-----	-----	-----	35	----	2	88.90	86.36	11.94	8.13	
D		-----	87898-3564	-----	-----	-----	35	----	4	88.90	86.36	11.94	8.13	
		-----	87898-3565	-----	-----	-----	35	----	5	88.90	86.36	11.94	8.13	
		-----	87898-3566	-----	-----	-----	35	----	6	88.90	86.36	11.94	8.13	
		-----	-----	87898-3661	-----	-----	-----	36	----	1	91.44	88.90	11.94	8.13
C		-----	87898-3662	-----	-----	-----	36	----	2	91.44	88.90	11.94	8.13	
		-----	87898-3664	-----	-----	-----	36	----	4	91.44	88.90	11.94	8.13	
		-----	87898-3665	-----	-----	-----	36	----	5	91.44	88.90	11.94	8.13	
		-----	87898-3666	-----	-----	-----	36	----	6	91.44	88.90	11.94	8.13	
B														
A														

	10	9	8	7	6	5	4	3	2	1																																																																	
	PACKAGING OPTION PART NO.						CKT SIZE	VOID POSITION	PLATING TYPE	DIMENSION																																																																	
F	TRY WITHOUT CAP	TRY WITH CAP	TUBE WITHOUT CAP	TUBE WITH CAP	TAPE & REEL WITHOUT CAP	TAPE & REEL WITH CAP				A	B	F	M																																																														
	-----	-----	87898-3761	-----	-----	-----	37	----	1	93.98	91.44	11.94	8.13																																																														
	-----	-----	87898-3762	-----	-----	-----	37	----	2	93.98	91.44	11.94	8.13																																																														
	-----	-----	87898-3764	-----	-----	-----	37	----	4	93.98	91.44	11.94	8.13																																																														
	-----	-----	87898-3765	-----	-----	-----	37	----	5	93.98	91.44	11.94	8.13																																																														
	-----	-----	87898-3766	-----	-----	-----	37	----	6	93.98	91.44	11.94	8.13																																																														
E																																																																											
	-----	-----	87898-3861	-----	-----	-----	38	----	1	96.52	93.98	11.94	8.13																																																														
	-----	-----	87898-3862	-----	-----	-----	38	----	2	96.52	93.98	11.94	8.13																																																														
	-----	-----	87898-3864	-----	-----	-----	38	----	4	96.52	93.98	11.94	8.13																																																														
	-----	-----	87898-3865	-----	-----	-----	38	----	5	96.52	93.98	11.94	8.13																																																														
D	-----	-----	87898-3866	-----	-----	-----	38	----	6	96.52	93.98	11.94	8.13																																																														
	-----	-----	87898-3961	-----	-----	-----	39	----	1	99.06	96.52	11.94	8.13																																																														
	-----	-----	87898-3962	-----	-----	-----	39	----	2	99.06	96.52	11.94	8.13																																																														
	-----	-----	87898-3964	-----	-----	-----	39	----	4	99.06	96.52	11.94	8.13																																																														
C	-----	-----	87898-3965	-----	-----	-----	39	----	5	99.06	96.52	11.94	8.13																																																														
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