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Part Number: [0877592414](#)
Status: **Active**
Overview: milligrd
Description: 2.00mm (.079") Pitch Milli-Grid™ Header, Surface Mount, Vertical, 24 Circuits, 0.38µm (15µ") Gold (Au) Selective Plating, without Press-fit Plastic Pegs, Lead-free

Documents:

[3D Model](#) [Product Specification PS-87761-100 \(PDF\)](#)
[Drawing \(PDF\)](#) [RoHS Certificate of Compliance \(PDF\)](#)

Agency Certification

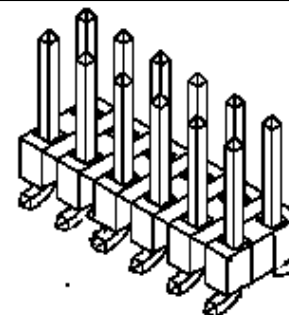
UL E29179

General

Product Family PCB Headers
 Series [87759](#)
 Application Board-to-Board
 Overview [milligrd](#)
 Product Name Milli-Grid™

Physical

Breakaway Yes
 Circuits (Loaded) 24
 Circuits (maximum) 24
 Color - Resin Black
 Durability (mating cycles max) 100
 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
 Mated Height (in) 0.150 In
 Mated Height (mm) 3.80 mm
 Material - Metal Phosphor Bronze
 Material - Plating Mating Gold
 Material - Plating Termination Tin
 Material - Resin Nylon
 Number of Rows 2
 Orientation Vertical
 PCB Locator No
 PCB Retention None
 Packaging Type Tube
 Pitch - Mating Interface (in) 0.079 In
 Pitch - Mating Interface (mm) 2.00 mm
 Pitch - Term. Interface (in) 0.079 In
 Pitch - Term. Interface (mm) 2.00 mm
 Plating min: Mating (µin) 15
 Plating min: Mating (µm) 0.38
 Polarized to Mating Part No
 Polarized to PCB No
 Shrouded No
 Stackable No
 Temperature Range - Operating -55°C to +105°C
 Termination Interface: Style Surface Mount



Series

image - Reference only

EU RoHS

**ELV and RoHS
 Compliant**
**REACH SVHC
 Contains SVHC: No**
**Halogen-Free
 Status**

China RoHS



Not Halogen-Free

**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

[87759Series](#)

Mates With

[79107](#) Milli-Grid™ Receptacle, Vertical,
 Through Hole. [79108](#) Milli-Grid™ Flex-to-
 Board, Vertical Receptacle. Milli-Grid™
 Receptacle, Surface Mount. [79109](#). [87381](#)

Electrical

Current - Maximum per Contact	2A
Voltage - Maximum	125V

Solder Process Data

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-89990-475
Product Specification	PS-87761-100
Sales Drawing	SD-87759-117

This document was generated on 05/25/2010

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F

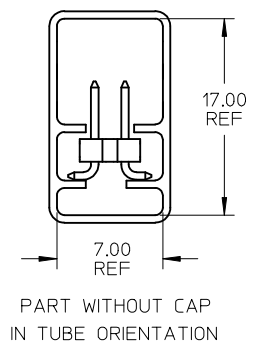
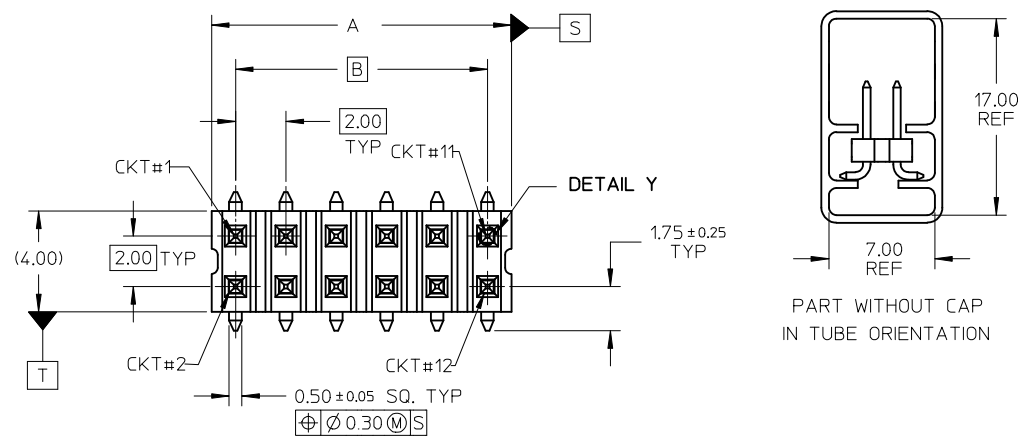
E

D

C

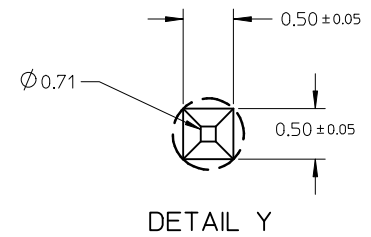
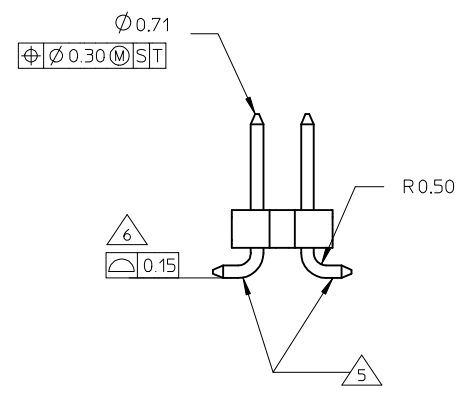
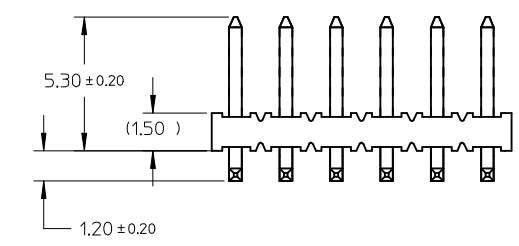
B

A

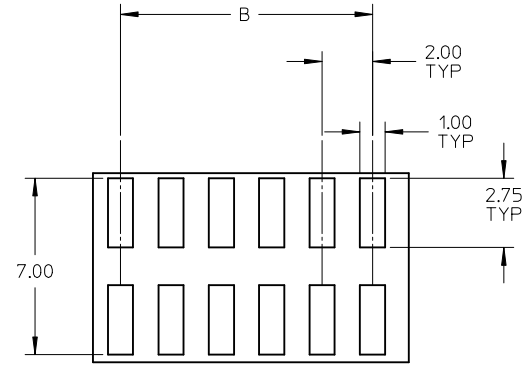
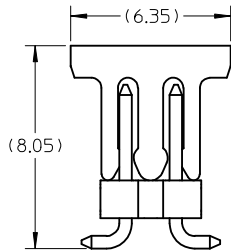


- NOTE:
- MATERIAL:
HSG & CAP - NYLON, GLASS FILLED
UL 94V-0, COLOUR BLACK

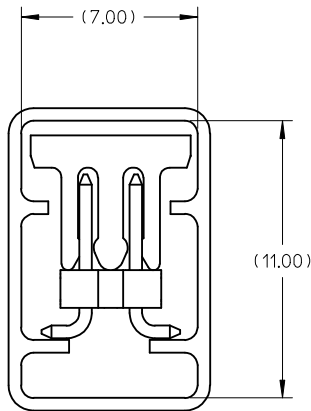
PIN - 0.50 SQ PHOSPHOR BRONZE
 - PLATING:
0.38um MIN GOLD PLATE AT CONTACT AREA,
TIN PLATE AT SOLDER AREA,
BOTH OVER NICKEL UNDERPLATE
 - PIN PUSHOUT FORCE: 1KG MIN IN EITHER DIRECTION
 - PRODUCT SPEC PS-87761-100 APPLIES.
 - BEND DEPRESSION IS ACCEPTABLE SO LONG AS IT DOES NOT AFFECT THE OVERALL COPLANARITY OF TAIL.
 - COPLANARITY IS TO BE MEASURED BY RESTING THE SOLDER TAIL ON A FLAT SURFACE.
 - CAP TO BE LOCATED AS CENTRAL OF PART AS POSSIBLE
TOP SURFACE OF CAP TO BE FLAT FOR THE PURPOSE OF PICK & PLACE BY VACUUM SUCTION NOZZLE.
 - FOR ILLUSTRATION PURPOSES, 12CKT IS SHOWN.
 - CKT 4 & 6 IS CUT FROM CKT 8 & 12 RESPECTIVELY
ROUGH EDGES ARE EXPECTED ALONG THE CUTTING EDGES.
 - PART TO BE PACKED IN TRAY ONLY.
 - TUBE LENGTH IS 560MM REF STANDARD.



ADD. OPTION EC NO: S2009-0510 DRWN:ATSEE CHKD:SKANG APPR:MLONG	REV DESCRIPTION	QUALITY SYMBOLS	GENERAL TOLERANCES (UNLESS SPECIFIED)	DIMENSION STYLE	SCALE	DESIGN UNITS	THIRD ANGLE PROJECTION													
		$\nabla=0$ $\square=0$	<table border="1"> <tr> <th></th> <th>mm</th> <th>INCH</th> </tr> <tr> <td>4 PLACES</td> <td>± ---</td> <td>± ---</td> </tr> <tr> <td>3 PLACES</td> <td>± ---</td> <td>± ---</td> </tr> <tr> <td>2 PLACES</td> <td>± 0.2</td> <td>± ---</td> </tr> <tr> <td>1 PLACE</td> <td>± ---</td> <td>± ---</td> </tr> </table>		mm	INCH	4 PLACES	± ---	± ---	3 PLACES	± ---	± ---	2 PLACES	± 0.2	± ---	1 PLACE	± ---	± ---	MM ONLY	N/T
	mm	INCH																		
4 PLACES	± ---	± ---																		
3 PLACES	± ---	± ---																		
2 PLACES	± 0.2	± ---																		
1 PLACE	± ---	± ---																		
B2			ANGULAR ± 3 °	DRAWN BY KSEE	DATE 2003/12/12	TITLE CUSTOM HEADER MGRID, 2MM DUAL ROW HDR. SMT														
			DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS	CHECKED BY KCL ING	DATE 2004/01/12	MATERIAL NO. SKTOH 2004/01/12														
				APPROVED BY SKTOH	DATE 2004/01/12	MOLEX INCORPORATED														
				SIZE A3	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION		SHEET NO. 1 OF 6													
						DOCUMENT NO. SD-87759-117														

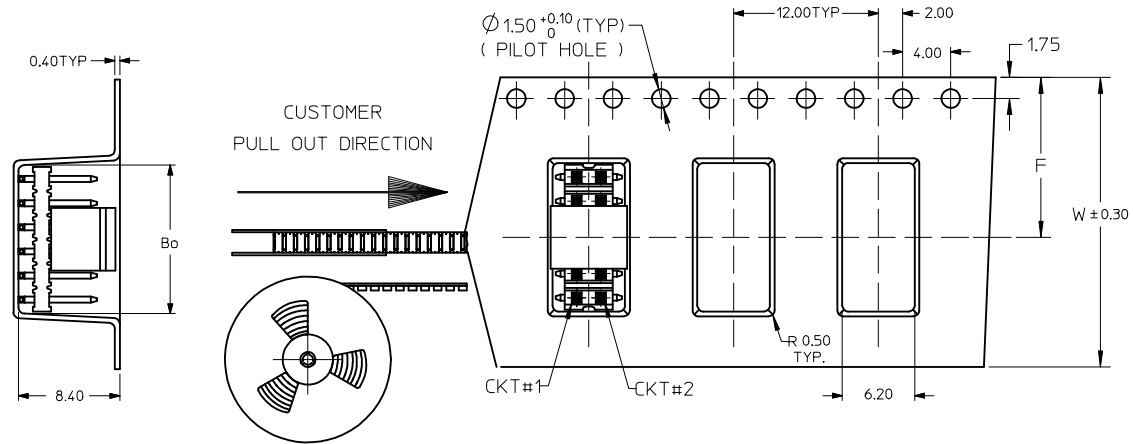


RECOMMENDED SOLDER PAD LAYOUT



ADD. OPTION EC NO: S2009-0510 DRWN:ATSEE 2009/01/23 CHKD:SKANG 2009/02/09 APPR:MLONG 2009/02/17	QUALITY SYMBOLS ▽=0 ◻=0	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY	SCALE NTS	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION																
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	ANGULAR ± 3 °	CHECKED BY KCLING	DATE 2004/01/12	MOLEX INCORPORATED																			
B2	DESCRIPTION REV	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		APPROVED BY SKTOH	DATE 2004/01/12	MATERIAL NO. SEE TABLE	DOCUMENT NO. SD-87759-117	SHEET NO. 2 OF 6															

EMBOSSED CARRIER TAPE TYPE "A"

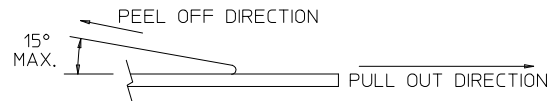


NOTES:

12. LEADER AND TRAILER TAPE



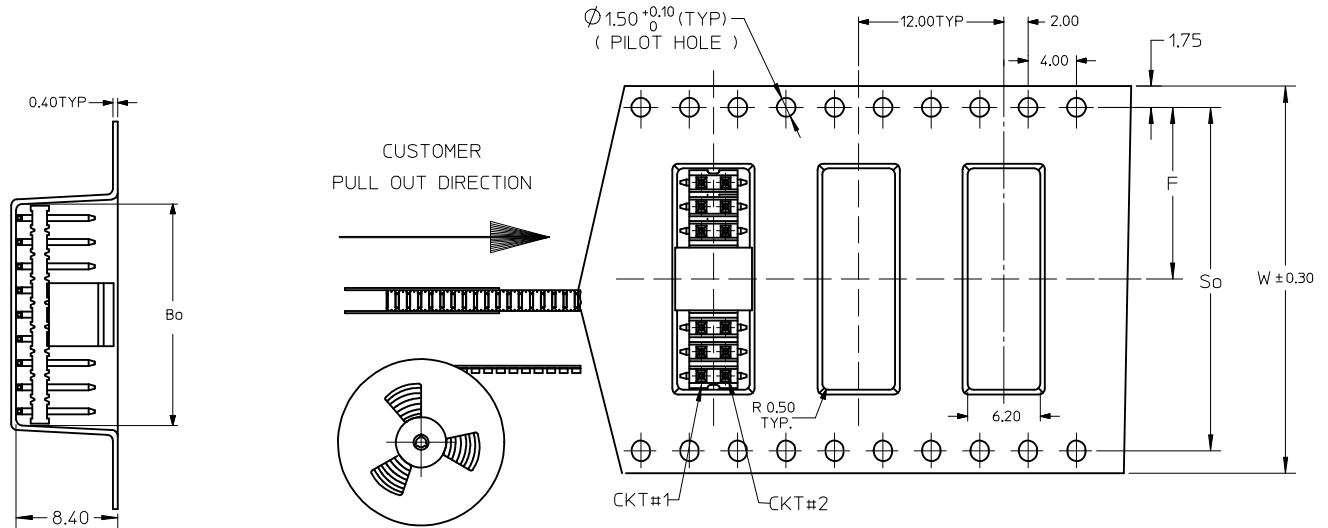
13. PEELING OFF FORCE OF THE TOP TAPE: 20-80gf.
(PEELING DIRECTION AS SHOWN IN FOLLOWING FIGURE)



- 14. PACKAGING STANDARD IS AS PER EIA-481.
- 15. TAPE & REEL QUANTITY = 750 PCS/REEL
- 16. THE TAPE IS TREATED FOR ANTI-STATIC

ADD. OPTION EC NO: S2009-0510 DRWN:ATSEE CHKD:SKANG APPR:MLONG	2009/01/23 2009/02/09 2009/02/17	DESCRIPTION REV	QUALITY SYMBOLS	GENERAL TOLERANCES (UNLESS SPECIFIED)	DIMENSION STYLE	SCALE	DESIGN UNITS	THIRD ANGLE PROJECTION
			$\nabla=0$ $\square=0$	mm INCH 4 PLACES ± --- ± --- 3 PLACES ± --- ± --- 2 PLACES ± 0.2 ± --- 1 PLACE ± --- ± --- ANGULAR ± 3°	MM ONLY	NTS	METRIC	
				DRAWN BY: KSEE DATE: 2003/12/12 CHECKED BY: DATE: 2004/01/12 APPROVED BY: DATE: 2004/01/12 SKTOH	TITLE	CUSTOM HEADER MGRID, 2MM DUAL ROW HDR. SMT		
			DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS	SEE TABLE THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION	MATERIAL NO. DOCUMENT NO.	MOLEX MOLEX INCORPORATED	SHEET NO. 3 OF 6	

EMBOSSED CARRIER TAPE TYPE "B"



ADD. OPTION EC NO: S2009-0510 DRWN:ATSEE 2009/01/23 CHKD:SKANG 2009/02/09 APPR:MLONG 2009/02/17	QUALITY SYMBOLS ▽=0 ◻=0	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 KSEE 2003/12/12 CHECKED BY DATE KCLING 2004/01/12 APPROVED BY DATE SKTOH 2004/01/12	SCALE NTS DESIGN UNITS METRIC THIRD ANGLE PROJECTION	TITLE CUSTOM HEADER MGRID, 2MM DUAL ROW HDR. SMT
	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS	MATERIAL NO. SEE TABLE	DOCUMENT NO. MOLEX INCORPORATED SD-87759-117	SHEET NO. 4 OF 6	
	SIZE A3	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION			
	REV B2				

THIS TYPE OF CARRIER IS FOR CKT SIZE 8 AND BELOW.

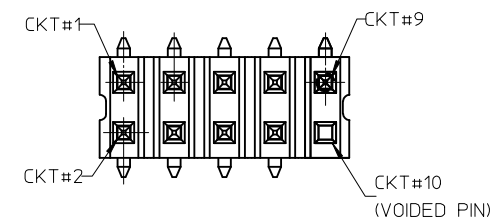


ADD. OPTION EC NO: S2009-0510 DRWN:ATSEE 2009/01/23 CHKD:SKANG 2009/02/09 APPR:MLONG 2009/02/17	DESCRIPTION REV	QUALITY SYMBOLS $\blacktriangledown = 0$ $\triangleleft = 0$	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY	SCALE NTS	DESIGN UNITS METRIC	$\odot \triangleleft$ THIRD ANGLE PROJECTION		
			mm	INCH	DRAWN BY	DATE	TITLE			
		4 PLACES	\pm ---	\pm ---	KSEE	2003/12/12	CUSTOM HEADER MGRID, 2MM DUAL ROW HDR. SMT			
		3 PLACES	\pm ---	\pm ---	CHECKED BY	DATE				
2 PLACES	± 0.2	\pm ---	KCLING	2004/01/12	MOLEX INCORPORATED					
1 PLACE	\pm ---	\pm ---	APPROVED BY	DATE						
		ANGULAR $\pm 3^\circ$		SKTOH	2004/01/12	MATERIAL NO.		DOCUMENT NO.		
		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SEE TABLE		SD-87759-117		SHEET NO. 5 OF 6		
				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		
	PART NUMBER WITHOUT CAP IN TUBE	PART NUMBER WITH CAP IN TUBE	PART NUMBER WITH CAP IN TAPE AND REEL.	CKT SIZE	VOID CKTS	A	B	Bo	F	So	W	EMBOSSED TYPE
F	87759-0414 $\triangle_9 \triangle_{10}$	87759-0464	87759-0474	4	--	NA	2.00	5.40	11.50	-	24.00	C
	87759-0614 \triangle_9	87759-0664	87759-0674	6	--	NA	4.00	7.20	11.50	-	24.00	C
	87759-0814	87759-0864	87759-0874	8	--	7.90	6.00	8.20	11.50	-	24.00	C
	87759-1014	87759-1064	87759-1074	10	--	9.90	8.00	10.20	11.50	-	24.00	A
	87759-1002 \triangle_A	87759-1003 \triangle_A	87759-1004 \triangle_A	10	10	9.90	8.00	10.20	11.50	-	24.00	A
	87759-1214	87759-1264	87759-1274	12	--	11.90	10.00	12.20	11.50	-	24.00	A
E	87759-1414	87759-1464	87759-1474	14	--	13.90	12.00	14.20	11.50	-	24.00	A
	87759-1614	87759-1664	87759-1674	16	--	15.90	14.00	16.20	14.20	28.40	32.00	B
	87759-1814	87759-1864	87759-1874	18	--	17.90	16.00	18.20	14.20	28.40	32.00	B
	87759-2014	87759-2064	87759-2074	20	--	19.90	18.00	20.20	14.20	28.40	32.00	B
	87759-2214	87759-2264	87759-2274	22	--	21.90	20.00	22.20	20.20	40.40	44.00	B
D	87759-2414	87759-2464	87759-2474	24	--	23.90	22.00	24.20	20.20	40.40	44.00	B
	87759-2614	87759-2664	87759-2674	26	--	25.90	24.00	26.20	20.20	40.40	44.00	B
	87759-2814	87759-2864	87759-2874	28	--	27.90	26.00	28.20	20.20	40.40	44.00	B
	87759-3014	87759-3064	87759-3074	30	--	29.90	28.00	30.20	20.20	40.40	44.00	B
	87759-3214	87759-3264	87759-3274	32	--	31.90	30.00	32.20	20.20	40.40	44.00	B
	87759-3414	87759-3464	87759-3474	34	--	33.90	32.00	34.20	26.20	52.40	56.00	B
	87759-3614	87759-3664	87759-3674	36	--	35.90	34.00	36.20	26.20	52.40	56.00	B
C	87759-3814	87759-3864	87759-3874	38	--	37.90	36.00	38.20	26.20	52.40	56.00	B
	87759-4014	87759-4064	87759-4074	40	--	39.90	38.00	40.20	26.20	52.40	56.00	B
	87759-4214	87759-4264	87759-4274	42	--	41.90	40.00	42.20	26.20	52.40	56.00	B
	87759-4414	87759-4464	87759-4474	44	--	43.90	42.00	44.20	26.20	52.40	56.00	B
	87759-4614	87759-4664	87759-4674	46	--	45.90	44.00	46.20	26.20	52.40	56.00	B
	87759-4814	87759-4864	87759-4874	48	--	47.90	46.00	48.20	26.20	52.40	56.00	B
B	87759-5014	87759-5064	87759-5074	50	--	49.90	48.00	50.20	34.20	68.40	72.00	B

NOTES:

\triangle_A VOIDED PIN CKT#10 FOR PART#87759-1002



ADD. OPTION EC NO: S2009-0510 DRWN:ATSEE CHKD:SKANG APPR:MLONG 2009/01/23 2009/02/09 2009/02/17	QUALITY SYMBOLS	GENERAL TOLERANCES (UNLESS SPECIFIED)	DIMENSION STYLE	SCALE	DESIGN UNITS	THIRD ANGLE PROJECTION
	$\nabla=0$	mm INCH	MM ONLY	NTS	METRIC	
	$\square=0$	4 PLACES \pm --- \pm ---	DRAWN BY DATE			TITLE
		3 PLACES \pm --- \pm ---	KSEE 2003/12/12			CUSTOM HEADER
	2 PLACES \pm 0.2 \pm ---	CHECKED BY DATE			MGRID, 2MM DUAL ROW HDR.	
	1 PLACE \pm --- \pm ---	KCL ING 2004/01/12			SMT	
	ANGULAR \pm 3 °	APPROVED BY DATE			MOLEX INCORPORATED	
		SKTOH 2004/01/12			DOCUMENT NO.	
		MATERIAL NO.			SHEET NO.	
		SEE TABLE			SD-87759-117	
		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS			6 OF 6	
			SIZE	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION		
			A3			