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Part Number: [0877591414](#)
Status: **Active**
Overview: [Milli-Grid™](#)
Description: 2.00mm (.079") Pitch Milli-Grid™ Header, Surface Mount, Vertical, 14 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

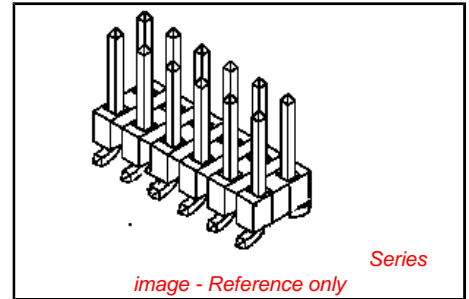
UL E29179

General

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

Physical

Breakaway Yes
 Circuits (Loaded) 14
 Circuits (maximum) 14
 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



<p>EU RoHS ELV and RoHS Compliant REACH SVHC Contains SVHC: No Halogen-Free Status Not Reviewed</p>	<p>China RoHS</p>
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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

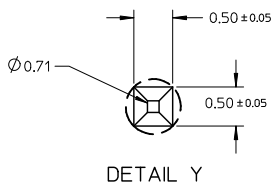
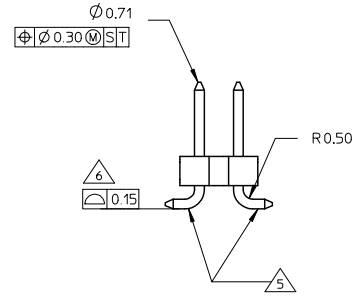
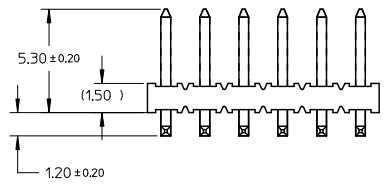
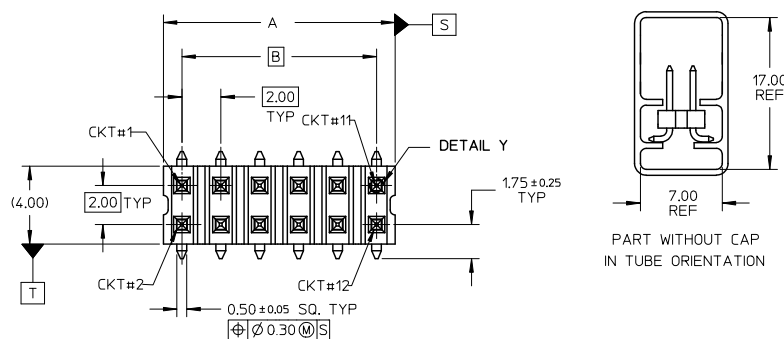
Material Info**Reference - Drawing Numbers**

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

This document was generated on 04/07/2010

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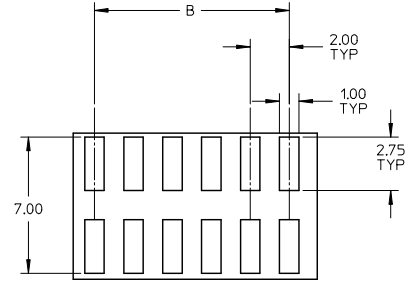
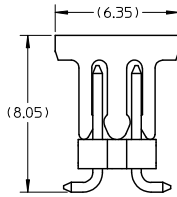
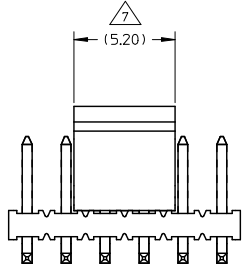
10 9 8 7 6 5 4 3 2 1



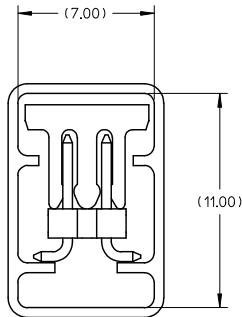
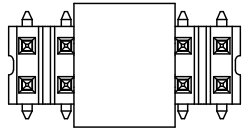
- NOTE:
- MATERIAL:
HSG & CAP - NYLON, GLASS FILLED UL 94V-0, COLOUR BLACK
PIN - 0.50 SQ PHOSPHOR BRONZE
 - PLATING:
0.38um MIN GOLD PLATE AT CONTACT AREA,
TIN PLATE AT SOLDER AREA,
BOTH OVER NICKEL UNDERPLATE
 - PIN PUSHOUT FORCE: 1KG MIN IN EITHER DIRECTION
 - PRODUCT SPEC PS-87761-100 APPLIES.
 - 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 ELEC NO: S22009-0510 DRAWN BY: CHIRNATSEE CHECKED BY: CHYKSKANG APPROVED BY: APPR:MLONG B2	DESCRIPTION 2009/01/23 2009/02/09 2009/02/17	QUALITY SYMBOLS	GENERAL TOLERANCES (UNLESS SPECIFIED)	DIMENSION STYLE	SCALE	DESIGN UNITS	THIRD ANGLE PROJECTION
		$\nabla=0$ $\nabla=0$	mm INCH 4 PLACES ± --- ± --- 3 PLACES ± --- ± --- 2 PLACES ± 0.2 ± --- 1 PLACE ± --- ± --- ANGULAR ± 3°	MM ONLY	NTS	METRIC	
		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS	DRAWN BY: KSEE CHECKED BY: KCLING APPROVED BY: SKTOH DATE: 2003/12/12 DATE: 2004/01/12 DATE: 2004/01/12	TITLE	CUSTOM HEADER MGRID, 2MM DUAL ROW HDR. SMT		
		MATERIAL NO. SEE TABLE	MOLEX INCORPORATED SD-87759-117	SHEET NO. 1 OF 6			

10 9 8 7 6 5 4 3 2 1



RECOMMENDED SOLDER PAD LAYOUT

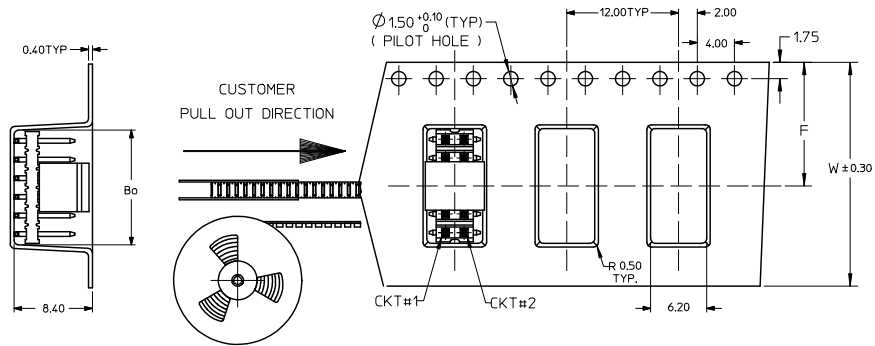


ADD. OPTION EEC NO: S22009-0510 DRAWN BY: CHRWATSEE CHECKED BY: CHYKSKANG APPROVED BY: APPR:MLONG DATE: 2009/01/23 DATE: 2009/02/09 DATE: 2009/02/17	DESCRIPTION B2	QUALITY SYMBOLS	GENERAL TOLERANCES (UNLESS SPECIFIED)	DIMENSION STYLE	SCALE	DESIGN UNITS	THIRD ANGLE PROJECTION															
		$\nabla=0$ $\sphericalangle=0$	<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	NTS	METRIC	
			mm	INCH																		
		4 PLACES	± ---	± ---																		
3 PLACES	± ---	± ---																				
2 PLACES	± 0.2	± ---																				
1 PLACE	± ---	± ---																				
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS	DRAWN BY: KSEE CHECKED BY: KCLING APPROVED BY: SKTOH DATE: 2003/12/12 DATE: 2004/01/12 DATE: 2004/01/12	TITLE	CUSTOM HEADER MGRID, 2MM DUAL ROW HDR. SMT																			
			MATERIAL NO. SEE TABLE	MOLEX INCORPORATED	DOCUMENT NO. SD-87759-117	SHEET NO. 2 OF 6																

9 8 7 6 5 4 3 2 1

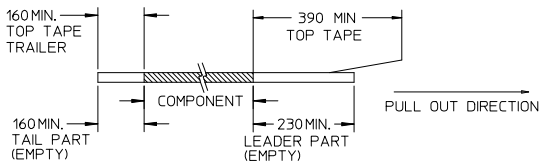
10 9 8 7 6 5 4 3 2 1

EMBOSSED CARRIER TAPE TYPE "A"

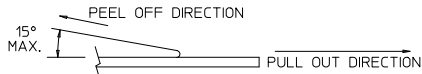


NOTES:

12. LEADER AND TRAILER TAPE



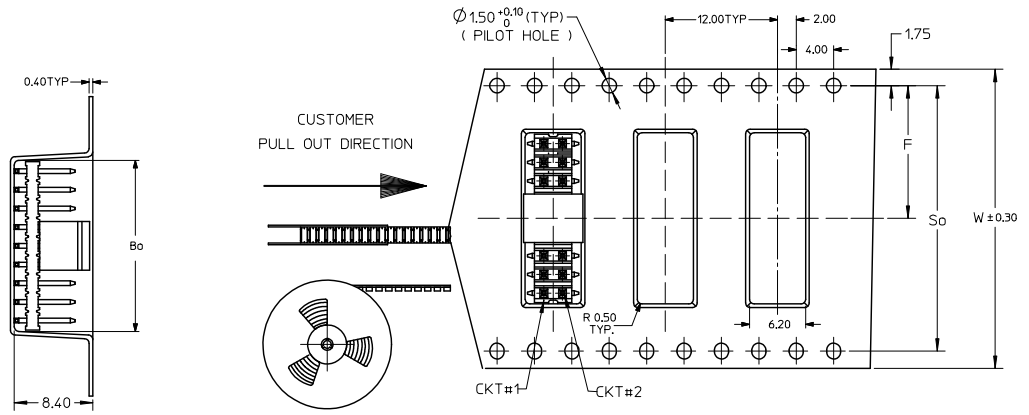
13. PEELING OFF FORCE OF THE TOP TAPE: 20-80gf.
(PEELING DIRECTION AS SHOWN IN FOLLOWING FIGURE)



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

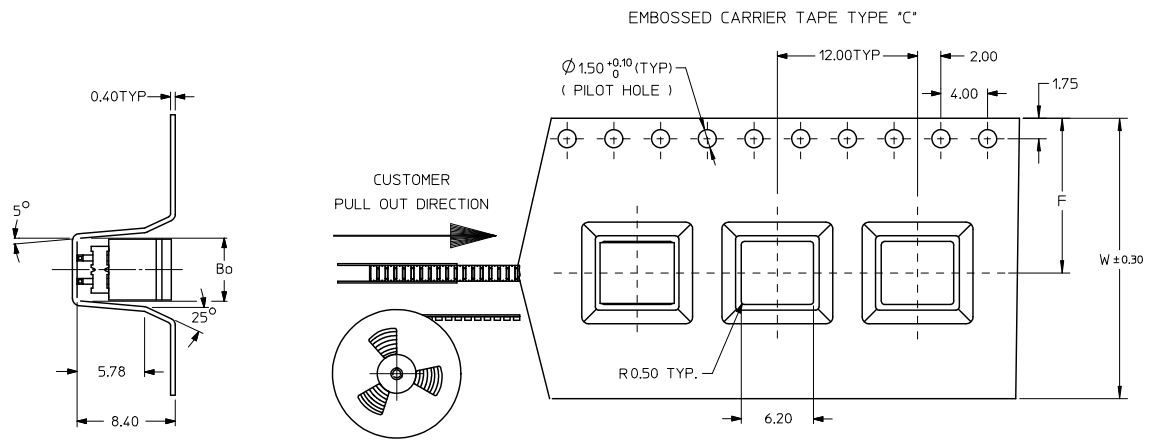
ADD. OPTION IEC NO: SZ2009-0510 CHUNWATSEE 2009/01/23 CHKO:SKANG 2009/02/09 APPR:MLONG 2009/02/17	QUALITY SYMBOLS	GENERAL TOLERANCES (UNLESS SPECIFIED)	DIMENSION STYLE	SCALE	DESIGN UNITS	THIRD ANGLE PROJECTION
	▽=0	mm INCH	MM ONLY	NTS	METRIC	
	▽=0	4 PLACES ± --- ± ---	DRAWN BY DATE	TITLE		
		3 PLACES ± --- ± ---	KSEE 2003/12/12	CUSTOM HEADER		
	2 PLACES ± 0.2 ± ---	CHECKED BY DATE	MGRID, 2MM DUAL ROW HDR.			
	1 PLACE ± --- ± ---	KCL ING 2004/01/12	SMT			
	ANGULAR ± 3 °	APPROVED BY DATE	MOLEX INCORPORATED			
	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS	SKTOH 2004/01/12	MATERIAL NO.	DOCUMENT NO.	SHEET NO.	
B2		SEE TABLE		SD-87759-117	3 OF 6	
			THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION			

EMBOSED CARRIER TAPE TYPE "B"



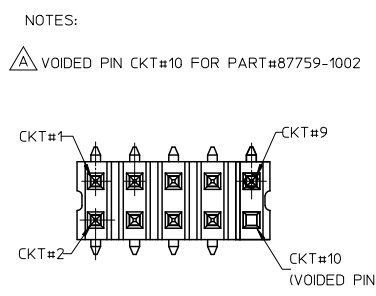
ADD. OPTION IEC NO: S2009-0510 DRAWN BY: CHIRNATSEE 2009/01/23 CHECKED BY: CHYKSKANG 2009/02/09 APPROVED BY: APPR:MLONG 2009/02/17	QUALITY SYMBOLS ▽=0 ▽=0	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE NTS	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION	
		4 PLACES ± --- ± ---	mm INCH	DRAWN BY KSEE	DATE 2003/12/12	TITLE CUSTOM HEADER MGRID, 2MM DUAL ROW HDR. SMT			
		3 PLACES ± --- ± ---		CHECKED BY KCLING	DATE 2004/01/12	MOLEX INCORPORATED			
		2 PLACES ± 0.2 ± ---		APPROVED BY SKTOH	DATE 2004/01/12	MATERIAL NO. SEE TABLE	DOCUMENT NO. SD-87759-117	SHEET NO. 4 OF 6	
1 PLACE ± --- ± ---		ANGULAR ± 3°		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS					

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



ADD. OPTION ELEC NO: S22009-0510 DRAWN BY: CHRWATSEE CHECKED BY: CHYKSKANG APPROVED BY: APPR:MLONG DATE: 2009/01/23 DATE: 2009/02/09 DATE: 2009/02/17	DESCRIPTION B2	QUALITY SYMBOLS	GENERAL TOLERANCES (UNLESS SPECIFIED)	DIMENSION STYLE	SCALE	DESIGN UNITS	THIRD ANGLE PROJECTION
		$\nabla=0$ $\sphericalangle=0$	mm INCH 4 PLACES ± --- ± --- 3 PLACES ± --- ± --- 2 PLACES ± 0.2 ± --- 1 PLACE ± --- ± --- ANGULAR ± 3°	MM ONLY	NTS	METRIC	
		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS	DRAWN BY: KSEE CHECKED BY: KCLING APPROVED BY: SKTOH DATE: 2003/12/12 DATE: 2004/01/12 DATE: 2004/01/12	TITLE	CUSTOM HEADER MGRID, 2MM DUAL ROW HDR. SMT		
		MATERIAL NO. SEE TABLE	MOLEX INCORPORATED SD-87759-117	SHEET NO. 5 OF 6			

	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 \triangle \triangle	87759-0464	87759-0474	4	--	NA	2.00	5.40	11.50	-	24.00	C
	87759-0614 \triangle	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	87759-1003 \triangle	87759-1004 \triangle	10	10	9.90	8.00	10.20	11.50	-	24.00	A
E	87759-1214	87759-1264	87759-1274	12	--	11.90	10.00	12.20	11.50	-	24.00	A
	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
	87759-2414	87759-2464	87759-2474	24	--	23.90	22.00	24.20	20.20	40.40	44.00	B
D	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



ADD. OPTION E.C. NO: S2009-0510 DRAWN BY: CHIRNATSEE CHECKED BY: CHYKSKANG APPROVED BY: APPR:MLONG B2 REV	DESCRIPTION 2009/01/23 2009/02/09 2009/02/17	QUALITY SYMBOLS	GENERAL TOLERANCES (UNLESS SPECIFIED)	DIMENSION STYLE	SCALE	DESIGN UNITS	THIRD ANGLE PROJECTION
		$\nabla=0$ $\nabla=0$	mm INCH 4 PLACES ± --- ± --- 3 PLACES ± --- ± --- 2 PLACES ± 0.2 ± --- 1 PLACE ± --- ± --- ANGULAR ± 3°	MM ONLY	NTS	METRIC	\odot \square
		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS	DRAWN BY: KSEE DATE: 2003/12/12 CHECKED BY: DATE: APPROVED BY: DATE: 2004/01/12 SKTOH: DATE: 2004/01/12	TITLE	CUSTOM HEADER MGRID, 2MM DUAL ROW HDR. SMT		MOLEX INCORPORATED
		MATERIAL NO. SEE TABLE SIZE: $\frac{A}{3}$	DOCUMENT NO. SD-87759-117 SHEET NO. 6 OF 6	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION			