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Part Number: [0877592876](#)
Status: **Active**
Overview: [milligrid](#)
Description: 2.00mm (.079") Pitch Milli-Grid™ Header, Surface Mount, Vertical, 28 Circuits, 0.38μm (15μ") Gold (Au) Selective Plating, with Press-fit Plastic Pegs, Pick-and-Place Cap, Tube Packaging, 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 [milligrid](#)
Product Name Milli-Grid™

Physical

Breakaway Yes
Circuits (Loaded) 28
Circuits (maximum) 28
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 Yes
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
Robotic Placement Pick and Place Cap
Shrouded No
Stackable Yes
Temperature Range - Operating -55°C to +105°C

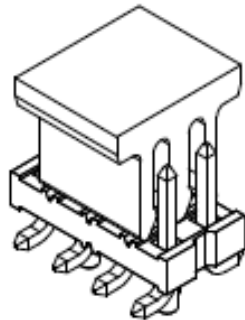


image - Reference only

Series

EU RoHS

**ELV and RoHS
Compliant**
**REACH SVHC
Contains SVHC: No**
**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.

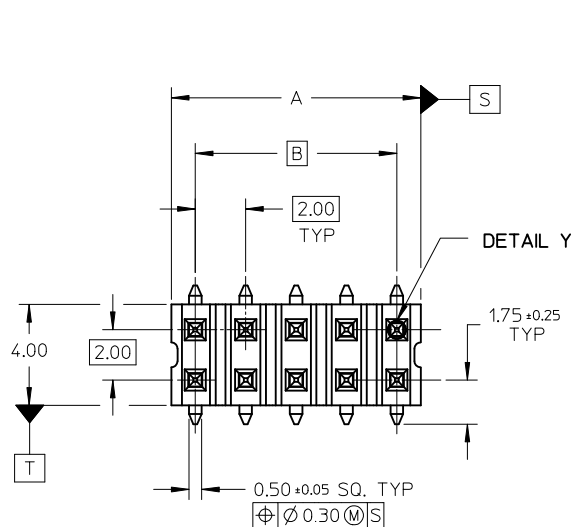
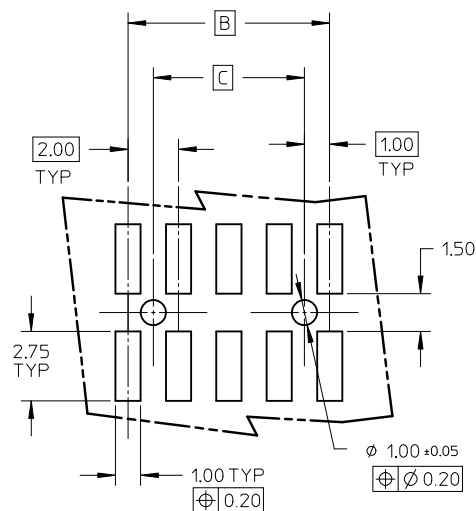
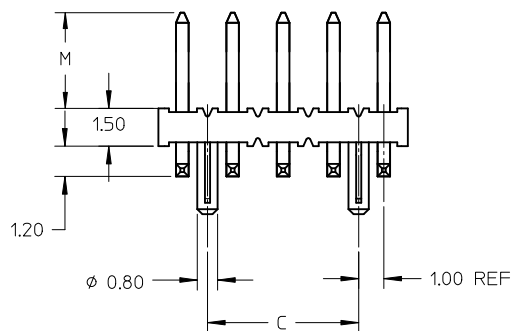
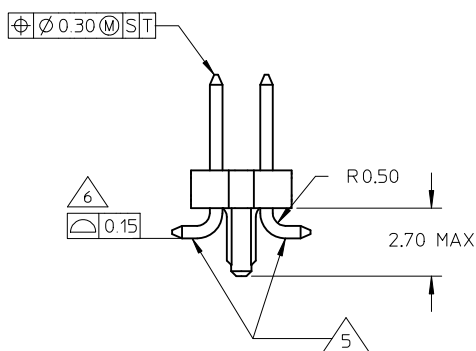
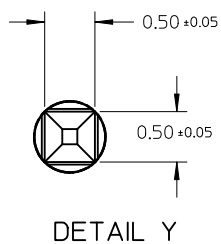
Search Parts in this Series
[87759Series](#)

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

Termination Interface: Style	Surface Mount
Electrical	
Current - Maximum per Contact	2A
Voltage - Maximum	125V
Material Info	
Reference - Drawing Numbers	
Packaging Specification	PK-89990-476
Product Specification	PS-87761-100
Sales Drawing	SD-87759-208

This document was generated on 05/25/2010

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NOTE:

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

PIN - 0.50 SQ PHOSPHOR BRONZE

2. PLATING:
0.38um MIN GOLD PLATE AT CONTACT AREA,
TIN PLATE AT SOLDER AREA,
BOTH OVER NICKEL UNDERPLATE

3. PIN PUSHOUT FORCE: 1KG MIN IN EITHER DIRECTION

4. PRODUCT SPEC PS-87761-100 APPLIES.

5. BEND DEPRESSION IS ACCEPTABLE SO LONG AS IT DOES NOT AFFECT THE OVERALL COPLANARITY OF TAIL.

6. COPLANARITY IS TO BE MEASURED BY RESTING THE SOLDER TAIL ON A GAUGE SURFACE.

7. 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.

8. FOR ILLUSTRATION PURPOSES, 10CKT IS SHOWN (WITH
TAPE & REEL ON 2ND SHEET). SHT 3 INDICATES THE TYPE
OF EMBOSSED USED IN GENERAL.

9. TUBE LENGTH IS 560MM REF STANDARD.

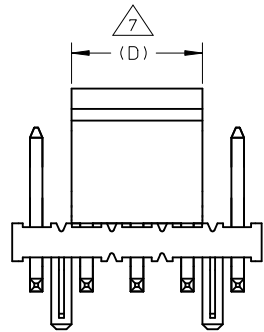
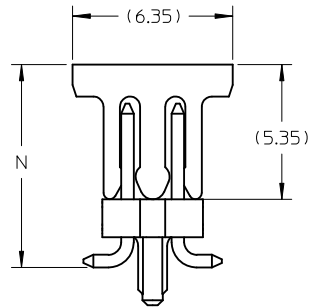
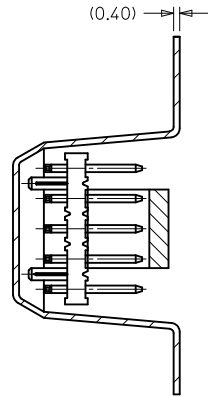
10. RECOMMENDED PCB BOARD THK IS 1.60±0.10 MM.

CHG DIM M. EWR#1191 EC NO: S2010-0237 DRW:ATSEE 2009/12/16 CHKD:SKANG 2009/12/17 APPR:MLONG 2009/12/21	QUALITY SYMBOLS <div><div><div><div></div></div><div><div></div></div><div><div></div></div></div><div><div><div><div></div></div><div><div></div></div><div><div></div></div></div><div><div><div><div></div></div><div><div></div></div><div><div></div></div></div></div></div></div>	DESCRIPTION REV	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE NTS	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION			
				mm	INCH	DRAWN BY KSEE	DATE 2003/12/22	TITLE CUSTOM HEADER MGRID, 2MM DUAL ROW HDR WITH PEG, SMT				
			4 PLACES	± ---	± ---	CHECKED BY KCLING	DATE 2004/01/12					
			3 PLACES	± ---	± ---	APPROVED BY MLONG	DATE 2009/12/17	MOLEX INCORPORATED				
			2 PLACES	± 0.2	± ---	MATERIAL NO.						
D3			1 PLACE	± ---	± ---	SEE TABLE		SD-87759-208		1 OF 4		
			ANGULAR ± 3 °									
			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					

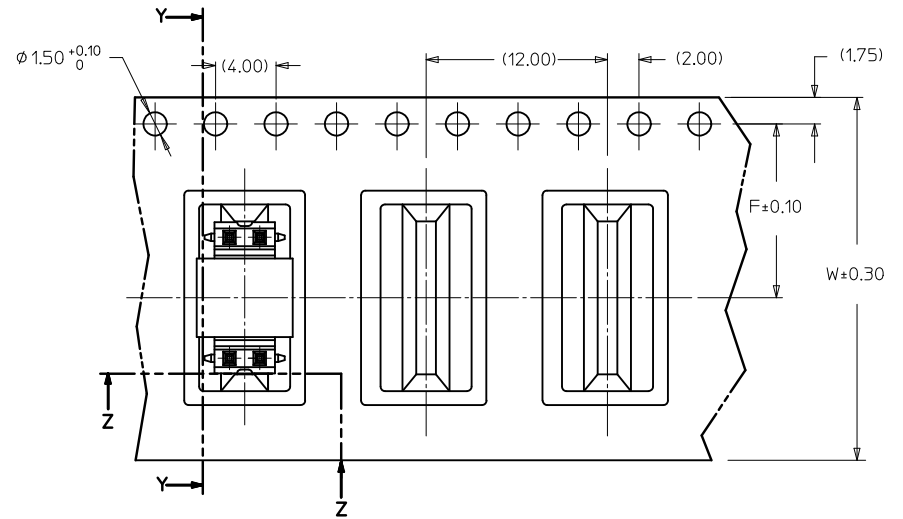
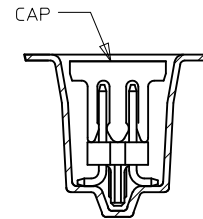
CAP TYPE	D
C1	5.20
C2	4.60

EMBOSSED TYPE "A"

PART WITH CAP IN TAPE & REEL ORIENTATION

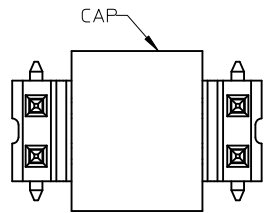
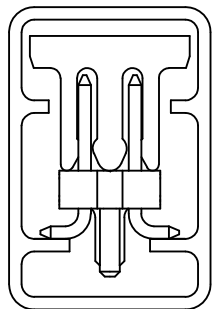


SECTION Y-Y



SECTION Z-Z

CUSTOMER PULL OUT
DIRECTION

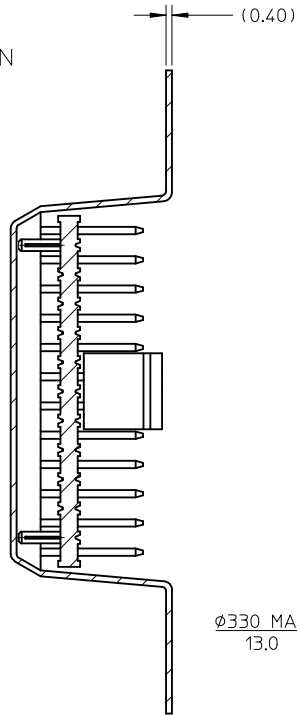
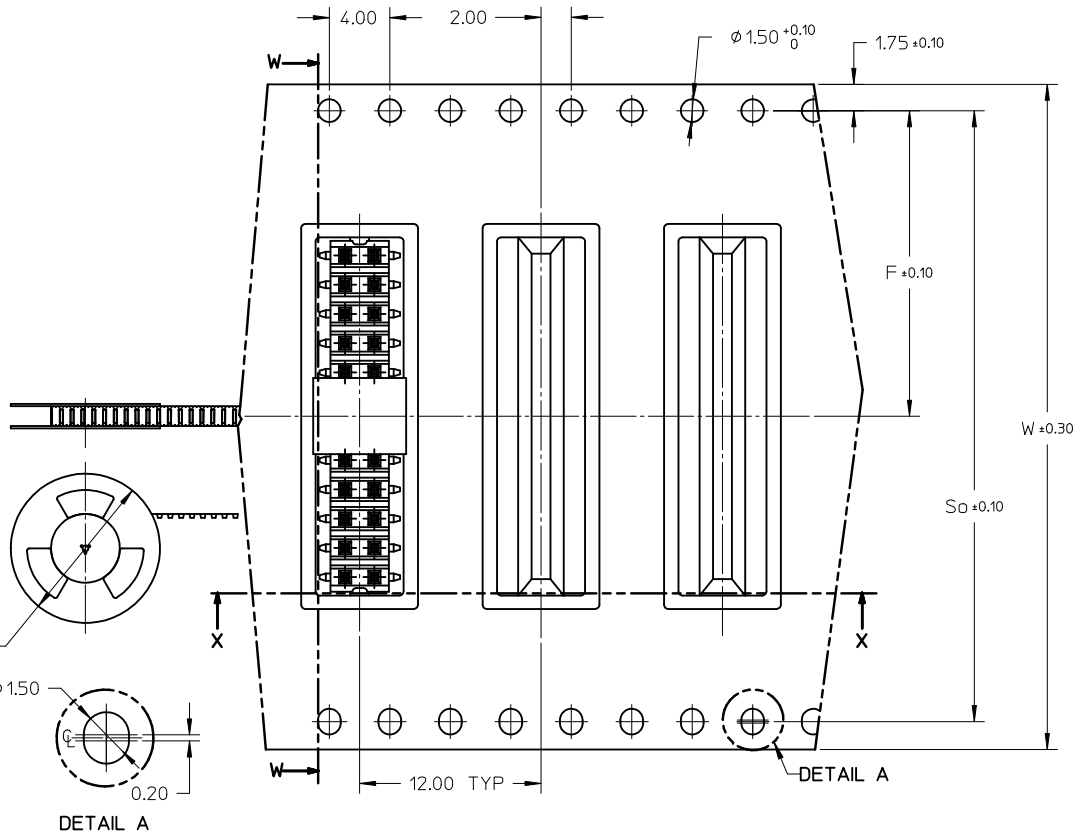


PART WITH CAP IN
TUBE ORIENTATION

CHG DIM M. EWR#1191 EC NO: S2010-0237 DRAWN AT SEE CHKD:SKANG APPR:MLONG REV D3	DESCRIPTION	QUALITY SYMBOLS <div>F_A=0</div> <div>F_B=0</div> <div>F_C=0</div>	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE NTS	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION			
					DRAWN BY KSEE	DATE 2003/12/22	TITLE CUSTOM HEADER MGRID, 2MM DUAL ROW HDR WITH PEG, SMT <div>MOLEX</div> MOLEX INCORPORATED					
					CHECKED BY KCL ING	DATE 2004/01/12						
					APPROVED BY MLONG	DATE 2009/12/17						
					ANGULAR ± 3 °		MATERIAL NO.		DOCUMENT NO.		SHEET NO.	
					DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SEE TABLE		SD-87759-208		2 OF 4	
							SIZE A3		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION			

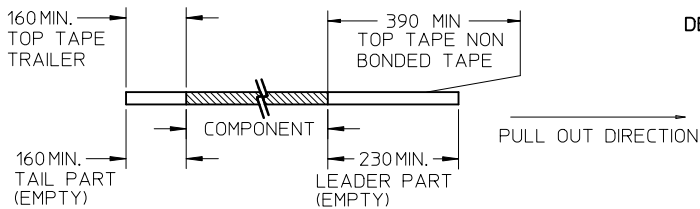
EMBOSSED TYPE "B"

PART WITH CAP IN
TAPE & REEL ORIENTATION

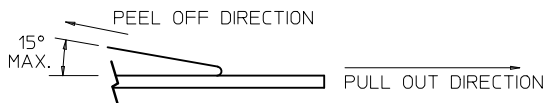


NOTES:

1. LEADER AND TRAILER TAPE



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



- TAPE AND REEL SPECIFICATION IS AS PER EIA-481.
- TAPE AND REEL QUANTITY : 500 PCS/ REEL.
- THE TAPE IS TREATED FOR ANTI-STATIC.

CHG DIM M. EWR#1191			DESCRIPTION	QUALITY SYMBOLS	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE NTS	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION		
EC NO: S2010-0237		2009/12/16			2009/12/17		2009/12/21		CUSTOM HEADER MGRID, 2MM DUAL ROW HDR WITH PEG, SMT				
DRW:N/ATSEE		CHKD:SKANG			APPR:MLONG								
D3		REV											
				 =0	4 PLACES	± ---	± ---	DRAWN BY KSEE	DATE 2003/12/22	MOLEX INCORPORATED			
				 =0	3 PLACES	± ---	± ---	CHECKED BY KCLING	DATE 2004/01/12				
				 =0	2 PLACES	± 0.2	± ---	APPROVED BY MLONG	DATE 2009/12/17				
					1 PLACE	± ---	± ---			SD-87759-208			
					ANGULAR ± 3 °			DOCUMENT NO.					SHEET NO. 3 OF 4
					DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS			MATERIAL NO.		SEE TABLE			
				SIZE A3									
					THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION								

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F	PART NUMBER WITH CAP IN TUBE	PART NUMBER WITH CAP IN TAPE & REEL	CKT SIZE	A	B	C	M	N	F	So	W	EMBOSSSED TYPE	CAP TYPE			F																																																														
	87759-0876	87759-7626	08	7.90	6.00	4.00	3.80	8.05	11.50	-	24.00	A	C1																																																																	
	87759-5276	87759-7648	08	7.90	6.00	4.00	8.80	13.00	11.50	-	24.00	A	C2																																																																	
	87759-1076	87759-7627	10	9.90	8.00	6.00	3.80	8.05	11.50	-	24.00	A	C1																																																																	
	87759-1276	87759-7628	12	11.90	10.00	8.00	3.80	8.05	11.50	-	24.00	A																																																																		
	87759-1476	87759-7629	14	13.90	12.00	10.00	3.80	8.05	11.50	-	24.00	A																																																																		
E	87759-1676	87759-7630	16	15.90	14.00	12.00	3.80	8.05	14.20	28.40	32.00	B																																																																		
	87759-1876	87759-7631	18	17.90	16.00	14.00	3.80	8.05	14.20	28.40	32.00	B																																																																		
	87759-2076	87759-7632	20	19.90	18.00	16.00	3.80	8.05	20.20	40.40	44.00	B																																																																		
	87759-2276	87759-7633	22	21.90	20.00	18.00	3.80	8.05	20.20	40.40	44.00	B																																																																		
	87759-2476	87759-7634	24	23.90	22.00	20.00	3.80	8.05	20.20	40.40	44.00	B																																																																		
	87759-2676	87759-7635	26	25.90	24.00	22.00	3.80	8.05	20.20	40.40	44.00	B																																																																		
D	87759-2876	87759-7636	28	27.90	26.00	24.00	3.80	8.05	20.20	40.40	44.00	B																																																																		
	87759-3076	87759-7637	30	29.90	28.00	26.00	3.80	8.05	20.20	40.40	44.00	B																																																																		
	87759-3276	87759-7638	32	31.90	30.00	28.00	3.80	8.05	26.20	52.40	56.00	B																																																																		
	87759-3476	87759-7639	34	33.90	32.00	30.00	3.80	8.05	26.20	52.40	56.00	B																																																																		
	87759-3676	87759-7640	36	35.90	34.00	32.00	3.80	8.05	26.20	52.40	56.00	B																																																																		
	87759-3876	87759-7641	38	37.90	36.00	34.00	3.80	8.05	26.20	52.40	56.00	B																																																																		
C	87759-4076	87759-7642	40	39.90	38.00	36.00	3.80	8.05	26.20	52.40	56.00	B																																																																		
	87759-4276	87759-7643	42	41.90	40.00	38.00	3.80	8.05	26.20	52.40	56.00	B																																																																		
	87759-4476	87759-7644	44	43.90	42.00	40.00	3.80	8.05	26.20	52.40	56.00	B																																																																		
	87759-4676	87759-7645	46	45.90	44.00	42.00	3.80	8.05	34.20	68.40	72.00	B																																																																		
	87759-4876	87759-7646	48	47.90	46.00	44.00	3.80	8.05	34.20	68.40	72.00	B																																																																		
B	87759-5076	87759-7647	50	49.90	48.00	46.00	3.80	8.05	34.20	68.40	72.00	B																																																																		
A	<table><tr><td rowspan="4">CHG DIM M. EWR#1191 EC NO: S2010-0237 2009/12/16 DRWN:ATSEE CHKD:SKANG APPR:MLONG D3</td><td rowspan="4">REV</td><td>QUALITY SYMBOLS</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="3">DESCRIPTION</td><td rowspan="3">F_A=0 F_G=0 F_P=0</td><td rowspan="3">mm</td><td rowspan="3">INCH</td><td>DRAWN BY</td><td>DATE</td><td rowspan="3">TITLE</td></tr><tr><td>KSEE</td><td>2003/12/22</td></tr><tr><td>CHECKED BY</td><td>DATE</td></tr><tr><td colspan="2"></td><td>2 PLACES</td><td>±0.2</td><td>±---</td><td>KCL ING</td><td>2004/01/12</td><td rowspan="2">MOLEX INCORPORATED</td></tr><tr><td colspan="2"></td><td>1 PLACE</td><td>±---</td><td>±---</td><td>APPROVED BY</td><td>DATE</td></tr><tr><td colspan="2"></td><td colspan="2">ANGULAR ± 3 °</td><td colspan="2">MLONG</td><td>2009/12/17</td><td rowspan="2">DOCUMENT NO.</td><td rowspan="2">SD-87759-208</td><td rowspan="2">SHEET NO. 4 OF 4</td></tr><tr><td colspan="2"></td><td colspan="2">DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS</td><td colspan="2">SEE TABLE</td></tr><tr><td colspan="2"></td><td colspan="2"></td><td colspan="2">SIZE A3</td><td colspan="4">THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION</td></tr></table>														CHG DIM M. EWR#1191 EC NO: S2010-0237 2009/12/16 DRWN:ATSEE CHKD:SKANG APPR:MLONG D3	REV	QUALITY SYMBOLS	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE NTS	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION		DESCRIPTION	F _A =0 F _G =0 F _P =0	mm	INCH	DRAWN BY	DATE	TITLE	KSEE	2003/12/22	CHECKED BY	DATE			2 PLACES	±0.2	±---	KCL ING	2004/01/12	MOLEX INCORPORATED			1 PLACE	±---	±---	APPROVED BY	DATE			ANGULAR ± 3 °		MLONG		2009/12/17	DOCUMENT NO.	SD-87759-208	SHEET NO. 4 OF 4			DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SEE TABLE						SIZE A3		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION				
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