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Part Number: [0877594465](#)
Status: **Active**
Overview: [milligrd](#)
Description: 2.00mm (.079") Pitch Milli-Grid™ Header, Surface Mount, Vertical, 44 Circuits, 0.76µm (30µ") Gold (Au) Selective Plating, without Press-fit Plastic Pegs, with 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 [milligrd](#)
Product Name Milli-Grid™

Physical

Breakaway Yes
Circuits (Loaded) 44
Circuits (maximum) 44
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 High Temperature Thermoplastic
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) 30
Plating min: Mating (µm) 0.76
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

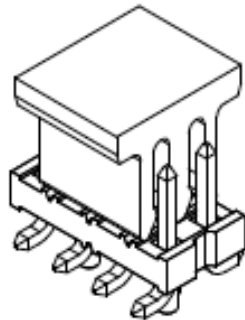


image - Reference only

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-87759-118

This document was generated on 05/25/2010

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10 9 8 7 6 5 4 3 2 1

F

E

D

C

B

A

F

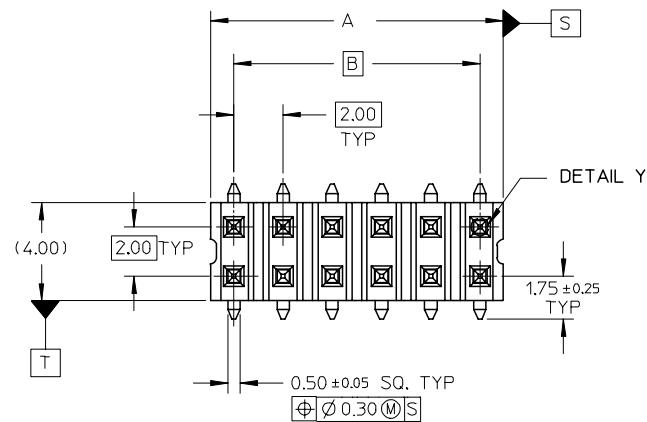
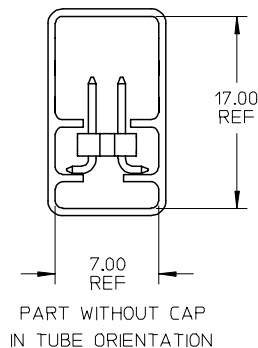
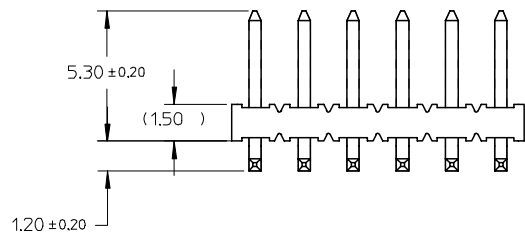
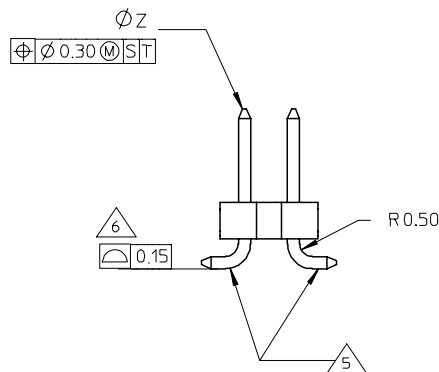
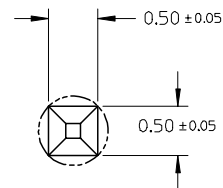
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DETAIL Y

NOTE:

1. MATERIAL:
HSG & CAP - LCP,
UL 94V-0, COLOUR BLACK

PIN - 0.50 SQ PHOSPHOR BRONZE

2. PLATING:
0.76um 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 FLAT 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, 12CKT IS SHOWN.

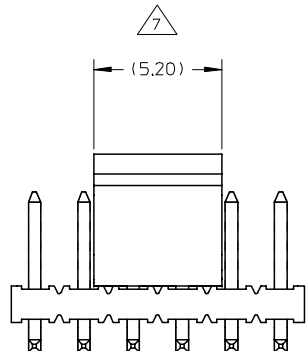
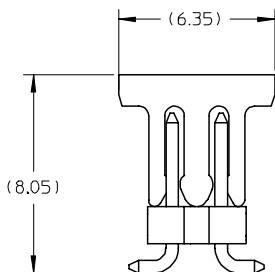
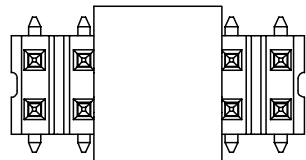
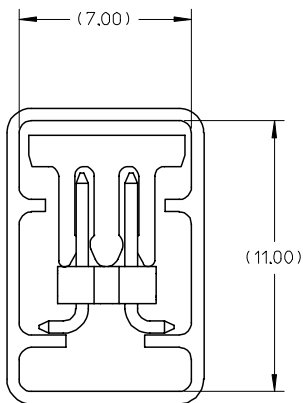
9. CKT 4 & 6 IS CUT FROM CKT 8 & 12 RESPECTIVELY
ROUGH EDGES ARE EXPECTED ALONG THE CUTTING EDGES.

10. PART TO BE PACKED IN TRAY 10 ONLY.

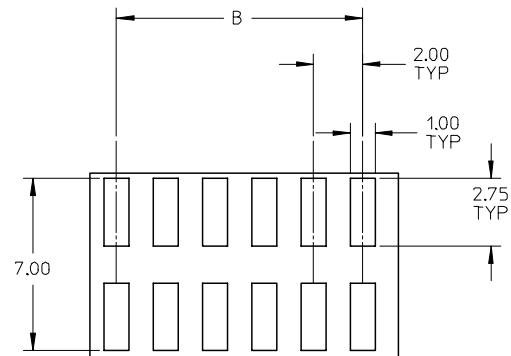
11. TUBE LENGTH IS 560MM REF STANDARD.

REVISED TUBE SPEC		QUALITY SYMBOLS		GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE NTS		DESIGN UNITS METRIC		THIRD ANGLE PROJECTION	
EC NO: S2007-0829		▽=0		mm		DRAWN BY		DATE		TITLE		MGRID, 2MM DUAL ROW HEADER, SMT	
2007/04/10		▽C=0		INCH		KSEE		2003/12/17					
DRWN:SKLM01				4 PLACES ± --- ± ---		CHECKED BY		DATE					
2007/04/12				3 PLACES ± --- ± ---		KCLING		2004/01/12					
CHKD:CLAM				2 PLACES ± 0.2 ± ---		APPROVED BY		DATE					
2007/04/17				1 PLACE ± --- ± ---		SKTOH		2004/01/12		molex		MOLEX INCORPORATED	
APPR:KMLEE				ANGULAR ± 3 °		MATERIAL NO.		DOCUMENT NO.				SHEET NO.	
				DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SEE TABLE		SD-87759-118				1 OF 4	
B		REV				SIZE A3		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION					

9 8 7 6 5 4 3 2 1



PART WITH CAP IN
TUBE ORIENTATION



RECOMMENDED SOLDER PAD LAYOUT

REVISED TUBE SPEC	EC NO: S2007-0829	2007/04/10
	DRWN:SKLIM01	2007/04/12
	CHKD:CLAM	2007/04/12
	APPR:KWLEE	2007/04/17
B	REV	DESCRIPTION

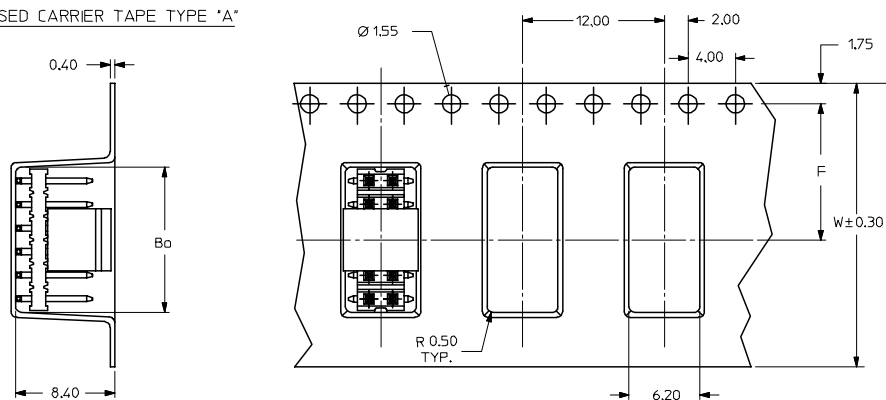
QUALITY SYMBOLS
▽=0
▽C=0

GENERAL TOLERANCES (UNLESS SPECIFIED)		
	mm	INCH
4 PLACES	± ---	± ---
3 PLACES	± ---	± ---
2 PLACES	± 0.2	± ---
1 PLACE	± ---	± ---
ANGULAR ± 3 °		
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		

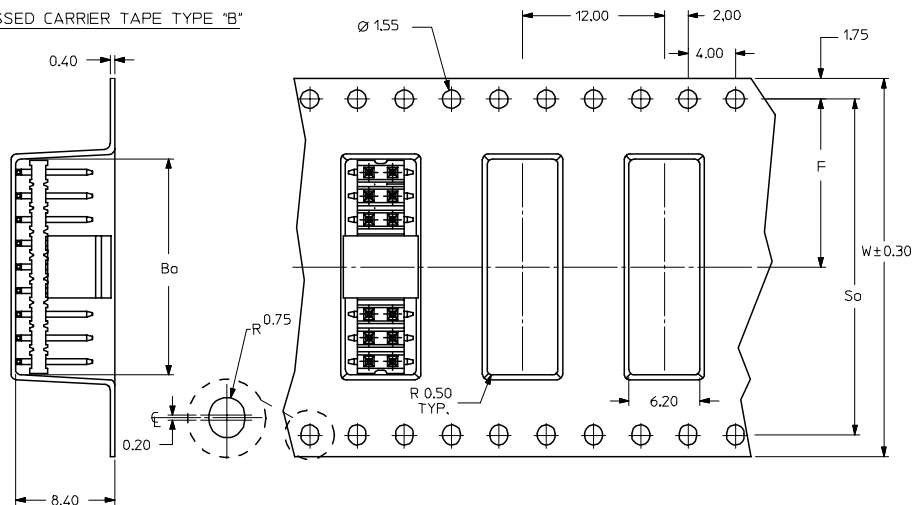
DIMENSION STYLE	
MM ONLY	
DRAWN BY	DATE
KSEE	2003/12/17
CHECKED BY	DATE
KCLING	2004/01/12
APPROVED BY	DATE
SKTOH	2004/01/12
MATERIAL NO.	
SEE TABLE	
SIZE	A3

SCALE	NTS	DESIGN UNITS	METRIC	THIRD ANGLE PROJECTION
TITLE				
MGRID, 2MM DUAL ROW HEADER, SMT				
MOLEX INCORPORATED				
DOCUMENT NO.				SHEET NO.
SD-87759-118				2 OF 4
THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION				

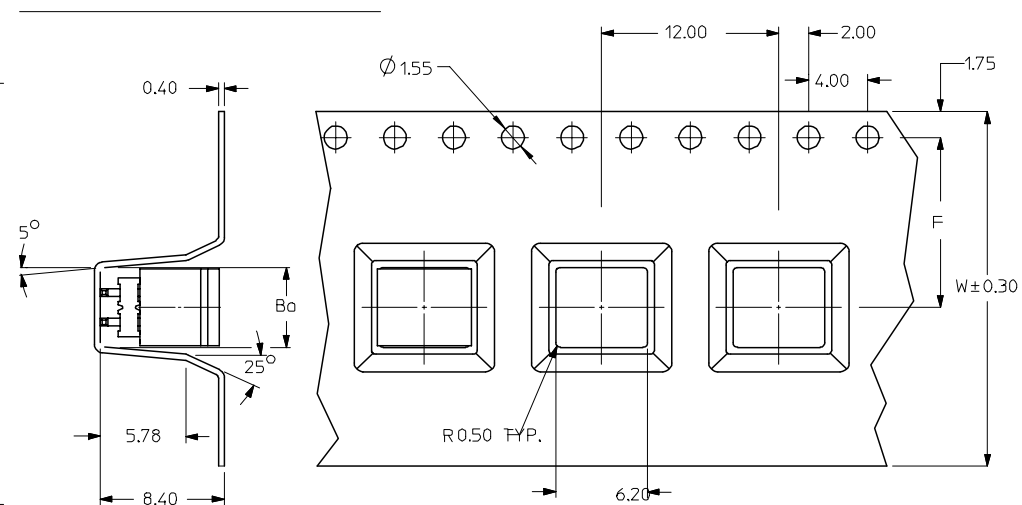
EMBOSSED CARRIER TAPE TYPE "A"



EMBOSSED CARRIER TAPE TYPE "B"



EMBOSSED CARRIER TAPE TYPE "C"



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

REVISED TUBE SPEC	2007/04/10
EC NO: S2007-0829	2007/04/12
DRWN:SKL/M01	2007/04/12
CHKD:CLAM	2007/04/12
APPR:KWLEE	2007/04/17
REV	DESCRIPTION
B	

QUALITY SYMBOLS
▽=0
▽C=0

GENERAL TOLERANCES (UNLESS SPECIFIED)		
	mm	INCH
4 PLACES	± ---	± ---
3 PLACES	± ---	± ---
2 PLACES	± 0.2	± ---
1 PLACE	± ---	± ---
ANGULAR ± 3 °		
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		

DIMENSION STYLE	
MM ONLY	
DRAWN BY	DATE
KSEE	2003/12/17
CHECKED BY	DATE
KCLING	2004/01/12
APPROVED BY	DATE
SKTOH	2004/01/12
MATERIAL NO.	
SEE TABLE	
SIZE	A3

SCALE NTS	DESIGN UNITS METRIC		THIRD ANGLE PROJECTION
TITLE			
MGRID, 2MM DUAL ROW HEADER, SMT			
 MOLEX INCORPORATED			
DOCUMENT NO.			SHEET NO.
SD-87759-118			3 OF 4
THIS INFORMATION THAT IS PROPRIETARY TO MOLEX SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION			

	10	9	8	7	6	5	4	3	2	1																																																																						
F	PART NUMBER WITHOUT CAP IN TUBE	PART NUMBER WITH CAP IN TUBE	PART NUMBER WITH CAP IN TAPE AND REEL.	CKT SIZE	A	B	Bo	F	So	W	EMBOSSED TYPE	F																																																																				
	87759-0415  	87759-0465	87759-0475	4	NA	2.00	5.40	11.50	-	24.00	C																																																																					
	87759-0615 	87759-0665	87759-0675	6	NA	4.00	7.20	11.50	-	24.00	C																																																																					
	87759-0815	87759-0865	87759-0875	8	7.90	6.00	8.20	11.50	-	24.00	C																																																																					
	87759-1015	87759-1065	87759-1075	10	9.90	8.00	10.20	11.50	-	24.00	A																																																																					
	87759-1215	87759-1265	87759-1275	12	11.90	10.00	12.20	11.50	-	24.00	A																																																																					
E	87759-1415	87759-1465	87759-1475	14	13.90	12.00	14.20	11.50	-	24.00	A	E																																																																				
	87759-1615	87759-1665	87759-1675	16	15.90	14.00	16.20	14.20	28.40	32.00	B																																																																					
	87759-1815	87759-1865	87759-1875	18	17.90	16.00	18.20	14.20	28.40	32.00	B																																																																					
	87759-2015	87759-2065	87759-2075	20	19.90	18.00	20.20	14.20	28.40	32.00	B																																																																					
	87759-2215	87759-2265	87759-2275	22	21.90	20.00	22.20	20.20	40.40	44.00	B																																																																					
	87759-2415	87759-2465	87759-2475	24	23.90	22.00	24.20	20.20	40.40	44.00	B																																																																					
D	87759-2615	87759-2665	87759-2675	26	25.90	24.00	26.20	20.20	40.40	44.00	B	D																																																																				
	87759-2815	87759-2865	87759-2875	28	27.90	26.00	28.20	20.20	40.40	44.00	B																																																																					
	87759-3015	87759-3065	87759-3075	30	29.90	28.00	30.20	20.20	40.40	44.00	B																																																																					
	87759-3215	87759-3265	87759-3275	32	31.90	30.00	32.20	20.20	40.40	44.00	B																																																																					
	87759-3415	87759-3465	87759-3475	34	33.90	32.00	34.20	26.20	52.40	56.00	B																																																																					
	87759-3615	87759-3665	87759-3675	36	35.90	34.00	36.20	26.20	52.40	56.00	B																																																																					
	87759-3815	87759-3865	87759-3875	38	37.90	36.00	38.20	26.20	52.40	56.00	B																																																																					
C	87759-4015	87759-4065	87759-4075	40	39.90	38.00	40.20	26.20	52.40	56.00	B	C																																																																				
	87759-4215	87759-4265	87759-4275	42	41.90	40.00	42.20	26.20	52.40	56.00	B																																																																					
	87759-4415	87759-4465	87759-4475	44	43.90	42.00	44.20	26.20	52.40	56.00	B																																																																					
	87759-4615	87759-4665	87759-4675	46	45.90	44.00	46.20	26.20	52.40	56.00	B																																																																					
	87759-4815	87759-4865	87759-4875	48	47.90	46.00	48.20	26.20	52.40	56.00	B																																																																					
B	87759-5015	87759-5065	87759-5075	50	49.90	48.00	50.20	34.20	68.40	72.00	B	B																																																																				
	<table><tr><td rowspan="5">REVISED TUBE SPEC EC NO: S2007-0829 DRWN:SKL IM01 2007/04/10 CHKD:CWLM 2007/04/12 APPR:KWLEE 2007/04/17</td><td rowspan="5">DESCRIPTION REV</td><td rowspan="5">QUALITY SYMBOLS ▽=0 ▽C=0</td><td colspan="2" rowspan="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>mm</td><td>INCH</td><td>TITLE</td><td colspan="3">MGRID, 2MM DUAL ROW HEADER, SMT</td></tr><tr><td>4 PLACES</td><td>± ---</td><td>± ---</td><td>DRAWN BY KSEE</td><td>DATE 2003/12/17</td><td colspan="3" rowspan="2">MOLEX INCORPORATED</td></tr><tr><td>3 PLACES</td><td>± ---</td><td>± ---</td><td>CHECKED BY</td><td>DATE</td></tr><tr><td>2 PLACES</td><td>± 0.2</td><td>± ---</td><td>KCL ING</td><td>2004/01/12</td><td colspan="3" rowspan="2">SD-87759-118</td></tr><tr><td>1 PLACE</td><td>± ---</td><td>± ---</td><td>APPROVED BY SKTOH</td><td>DATE 2004/01/12</td></tr><tr><td colspan="3">ANGULAR ± 3 °</td><td colspan="2">MATERIAL NO.</td><td colspan="2">DOCUMENT NO.</td><td>SHEET NO.</td></tr><tr><td colspan="3">DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS</td><td colspan="2">SEE TABLE</td><td colspan="2">SD-87759-118</td><td>4 OF 4</td></tr><tr><td colspan="3">SIZE A3</td><td colspan="5">THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION</td><td colspan="2"></td></tr></table>											REVISED TUBE SPEC EC NO: S2007-0829 DRWN:SKL IM01 2007/04/10 CHKD:CWLM 2007/04/12 APPR:KWLEE 2007/04/17	DESCRIPTION REV	QUALITY SYMBOLS ▽=0 ▽C=0	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE NTS	DESIGN UNITS METRIC	 THIRD ANGLE PROJECTION		mm	INCH	TITLE	MGRID, 2MM DUAL ROW HEADER, SMT			4 PLACES	± ---	± ---	DRAWN BY KSEE	DATE 2003/12/17	MOLEX INCORPORATED			3 PLACES	± ---	± ---	CHECKED BY	DATE	2 PLACES	± 0.2	± ---	KCL ING	2004/01/12	SD-87759-118			1 PLACE	± ---	± ---	APPROVED BY SKTOH	DATE 2004/01/12	ANGULAR ± 3 °			MATERIAL NO.		DOCUMENT NO.		SHEET NO.	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS			SEE TABLE		SD-87759-118		4 OF 4	SIZE A3			THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION						
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