

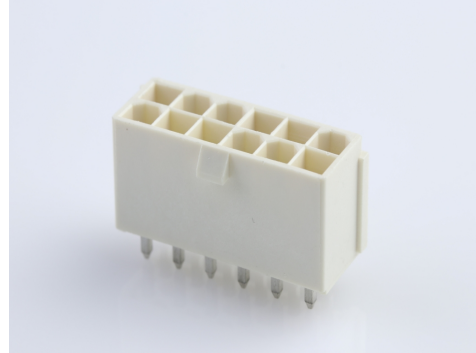
产品编号 : [874271242](#)

Product Description : Mini-Fit Jr. Header, 4.20mm Pitch, Vertical, Nylon, without Flange, 12 Circuits, Tin (Sn) over Nickel (Ni) Plating, Bulk Packaging

系列号 : 87427

状态 : Active

Product Category : PCB Headers and Receptacles



## 文件和资源

### 图纸

[图纸 874271242\\_sd.pdf](#)

[包装设计图 PK-87427-004-001.pdf](#)

### 3D 模型和设计文件

[3D模型 874271242\\_stp.zip](#)


### 规格

[产品规格 PS-87427-0001-001.pdf](#)

[产品规格 PS-45750-001-001.pdf](#)

## 产物环境合规

### 合规

GADSL/IMDS	Not Relevant
China RoHS	
EU ELV	Not Relevant
Low-Halogen Status	Not Low-Halogen per IEC 61249-2-21
REACH SVHC	Not Contained per D(2023)8585-DC (23 Jan 2024)
EU RoHS	Compliant per EU 2015/863

### 多部分产品合规性声明

- Eu RoHS
- REACH SVHC
- Low-Halogen

多部分行业合规性文件

- IPC 1752A Class C
- IPC 1752A Class D
- Molex Product Compliance Declaration
- IEC-62474
- chemSHERPA (xml)

欧盟 RoHS 合格证书

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产品详情

常规

状态	活动
类别	PCB Headers and Receptacles
系列	87427
说明	Mini-Fit Jr. Header, 4.20mm Pitch, Vertical, Nylon, without Flange, 12 Circuits, Tin (Sn) over Nickel (Ni) Plating, Bulk Packaging
应用	Power, Wire-to-Board
个评论	Current = 13A max. per circuit when header is mated to a receptacle loaded with 45750 Mini-Fit Plus HCS Crimp Terminal Crimped to 16 AWG wire. See Molex product specification PS-45750-001 for additional current de-rating information.
元件类型	PCB Header
产品系列	Mini-Fit Family Power Connectors
产品名称	Mini-Fit Jr.
UPC	800756563756

机构

CSA	LR19980
UL	E29179

电气

每触点最大电流	13.0A
电压 - 最大	600V

物理

断开	否
回路数 (已载入)	12
电路数 (最多)	12
颜色-树脂	米黄色
耐用性(插拔次数) - 最多次数	30
先接后断	否
阻燃性	94V-0
符合灼热丝规范	否
锁定插接部位	是
材料 - 金属	Brass
材料 - 接合部位电镀	Tin
材料 - 终端电镀	Tin
材料 - 树脂	Nylon
净重	4.194/g
行数	2
方向	垂直
包装形式	Bag
PC 焊脚长度	3.30mm
PCB 定位器	否
PCB 保持力	无
推荐的 PCB 厚度	1.60mm
间距 - 插配接口	4.20mm
间距 - 终端界面	4.20mm
最薄镀层 - 接合部位	2.540µm
最薄镀层 - 端接	2.540µm
有极性的插配件	是
PCB 极性	否
有护墙的	Fully
可堆叠的	否
运行温度范围	-40° to +105° C
终端界面类型	Through Hole

进程

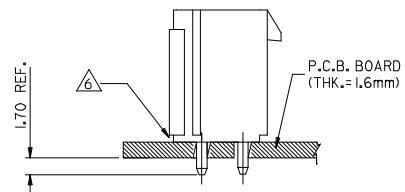
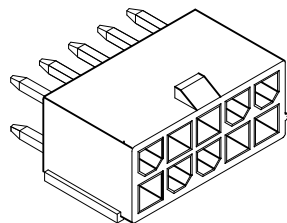
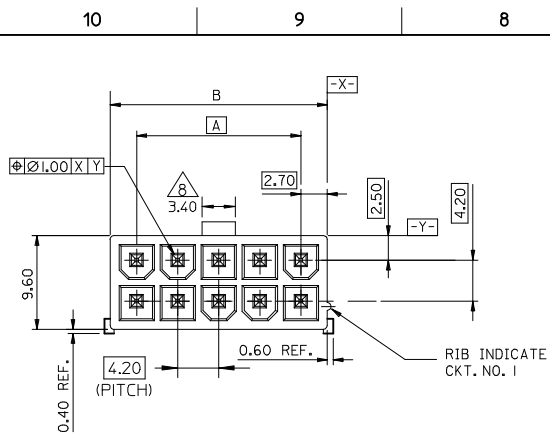
最长持续时间	5
无铅	WAVE
最大周期	1
最高温度	260

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## 可配插/可连接使用的产品

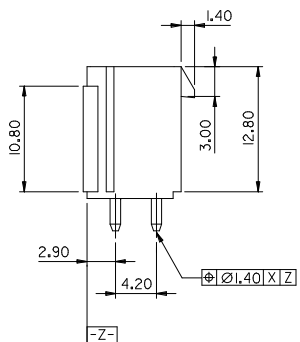
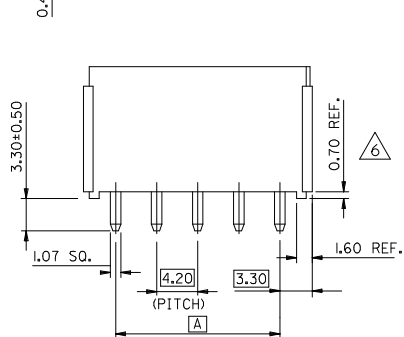
### 可配插部件

描述	产品编号
Mini-Fit Jr. Receptacle Housings	<u>5557</u>
Mini-Fit Jr.-to-Mini-Fit Jr. Off-the-Shelf (OTS) Overmolded Cable Assemblies	<u>245135</u>
Mini-Fit TPA2 and Mini-Fit Sigma Dual Row Receptacle Housings	<u>172708</u>



**RECOMMENDED INSTALLATION PATTERN**

	51.60±0.55	46.20	24
	47.40±0.55	42.00	22
	43.20±0.50	37.80	20
	39.00±0.45	33.60	18
	34.80±0.35	29.40	16
	30.60±0.30	25.20	14
	26.40±0.30	21.00	12
	22.20±0.30	16.80	10
	18.00±0.30	12.60	8
	13.80±0.25	8.40	6
	9.60±0.25	4.20	4
	5.40±0.20	--	2
	B	A	CKT. SIZE



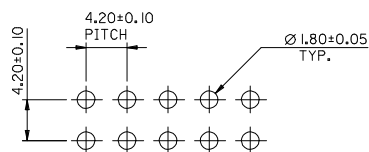
**LEGEND**

- 36633-\*\*\*\* SEE SHEET 2 FOR CKT SIZE, PKG, PLATING, & HSG COLOR OPTIONS.
- 87427-\*\*\*\* PLATING OPTIONS
- 2 = NOTE 2
- 8 = NOTE 3
- COLOR & PACKAGING
- 3 = BEIGE, TAPE & REEL PACKED
- 4 = BEIGE, BULK PACKED
- 9 = BLACK, BULK PACKED

**NOTES**

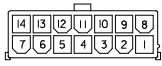
1. MATERIALS:
  - HEADER: NYLON 46, UL94V-0, COLOR SEE LEGEND.
  - PIN: BRASS
2. FINISH- PLATING OF PIN:
  - 2.2 .00254 MIN. MATTE TIN OVER .00127 MIN. NICKEL
  - 2.3 0.00076 MIN. SELECT GOLD AND 0.00254 MIN. SELECT MATTE TIN OVER 0.00127 MIN. NICKEL OVERALL
3. PRODUCT SPECIFICATION: PS-87427-0001. PACKAGING SPECIFICATION : BULK PACK PER PK-87427-004. TAPE & REEL PACK PER PK-87427-009
5. MATES WITH: MINI-FIT JR. RECEPTACLE SERIES 5557.
6. HOUSING STANDOFF (0.70mm REF)
7. THESE PARTS CONFORM TO CLASS "B" REQUIREMENTS OF 'COSMETIC SPECIFICATION PS-45499-002.
8. THIS DIMENSION IS 4.2 ON 2 CKT PARTS.
9. DISCOLORATION IN THE BANDOLIER CARRIER AREA OF THE PIN IS INHERENT TO THE PLATING PROCESS AND IS DUE TO THE MASKING EFFECT OF THE CARRIER. THIS DISCOLORATION IS IN A NON-FUNCTIONAL AREA OF THE PIN AND WILL NOT AFFECT THE PERFORMANCE OF THE HEADER ASSEMBLY.
10. PARTS ARE NOT DESIGNED FOR CURRENT SHARING.
11. CONNECTORS ARE NOT TO BE MATED AND UNMATED WHILE CIRCUITS ARE LIVE.

**RECOMMENDED P.C.B. LAYOUT**

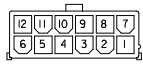


EDIT NOTE 4 E.C. NO: UCP2017-1059 DRWN: SLAFTER 2016/11/08 CHKD: IBELL 2016/11/08 APPR: FSMITH 2017/02/06	QUALITY SYMBOLS	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE 4:1	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION	
	$\nabla F=0$ $\nabla E=0$ $\nabla F=0$	4 PLACES	± ---	± ---	DRAWN BY SAM.C	DATE 960401	TITLE <b>4.2MM W-T-B          VERT. HEADER W/O FLANGES          MINI-FIT JR</b>		
		3 PLACES	± ---	± ---	CHECKED BY	DATE			
		2 PLACES	± 0.20	± ---	APPROVED BY FSMITH	DATE 2010/10/04	DOCUMENT NO. <b>SD-87427-***4*</b>		
	1 PLACE	± ---	± ---	MATERIAL NO. <b>SEE CHART</b>		SHEET NO. 1 OF 2			
	0 PLACE	± ---	± ---	ANGULAR ± ---° DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION			

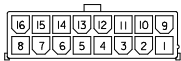
10 9 8 7 6 5 4 3 2 1



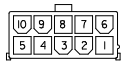
CKT.SIZE 14



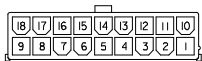
CKT.SIZE 12



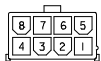
CKT.SIZE 16



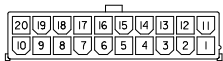
CKT.SIZE 10



CKT.SIZE 18



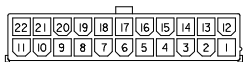
CKT.SIZE 8



CKT.SIZE 20



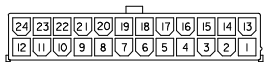
CKT.SIZE 6



CKT.SIZE 22



CKT.SIZE 4



CKT.SIZE 24



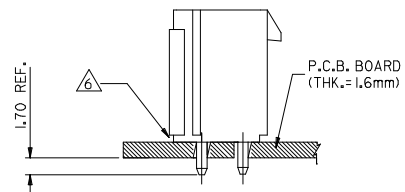
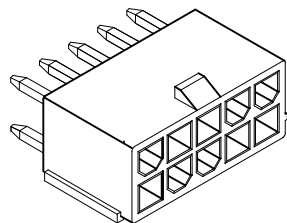
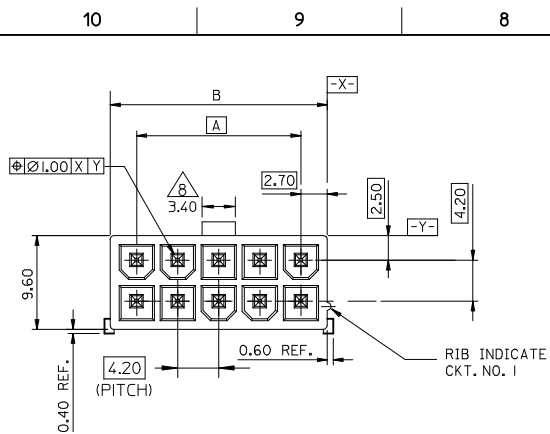
CKT.SIZE 2

"#" CONSULT FACTORY FOR AVAILABILITY

BULK PACKED		BULK PACKED		TAPE & REEL PACKED		BULK PACKED		
PLATING=TIN $\Delta$		PLATING=GOLD $\Delta$		PLATING=TIN $\Delta$		PLATING=TIN $\Delta$		
COLOR=BLACK		COLOR=BEIGE		COLOR=BEIGE		COLOR=BEIGE		
#	87427-2492	24	87427-2448	24	#	87427-2432	24	
#	87427-2292	22	87427-2248	22	#	87427-2232	22	
#	87427-2092	20	87427-2048	20	#	87427-2032	20	
#	87427-1892	18	87427-1848	18	#	87427-1832	18	
#	87427-1692	16	87427-1648	16	#	87427-1632	16	
#	87427-1492	14	87427-1448	14	#	87427-1432	14	
#	87427-1292	12	87427-1248	12	#	87427-1232	12	
#	87427-1092	10	87427-1048	10	#	87427-1032	10	
#	87427-0892	8	87427-0848	8	#	87427-0832	8	
#	87427-0692	6	87427-0648	6	#	36633-0010	6	
#	87427-0492	4	87427-0448	4	#	36633-0009	4	
#	87427-0292	2	87427-0248	2	#	36633-0008	2	
ENG. NO.	CKT. SIZE		ENG. NO.	CKT. SIZE	ENG. NO.	CKT. SIZE	ENG. NO.	CKT. SIZE

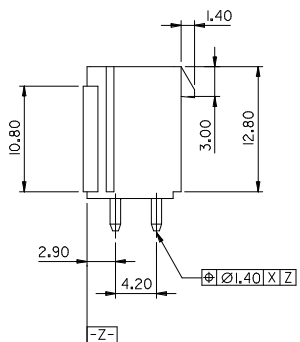
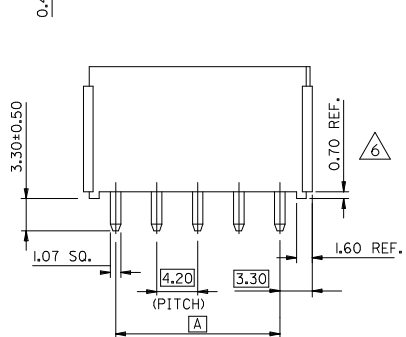
SEE SHEET 1 EC NO: UCP2017-1059 DRW:CSLAFTER 2016/11/08 CHKD:JBELL 2016/11/08 APPR:FSM TH 2017/02/06	QUALITY SYMBOLS	GENERAL TOLERANCES (UNLESS SPECIFIED)	DIMENSION STYLE	SCALE	DESIGN UNITS	THIRD ANGLE PROJECTION	
	$\nabla F=0$	mm INCH	MM ONLY	2:1	METRIC		
	$\nabla E=0$	4 PLACES ± --- ± ---	DRAWN BY DATE	TITLE 4.2MM W-T-B VERT. HEADER W/O FLANGES MINI-FIT JR			
	$\nabla B=0$	3 PLACES ± --- ± ---	SAM.C 960401				
	2 PLACES ± 0.20 ± ---	CHECKED BY DATE	DOCUMENT NO. SD-87427-***4* SHEET NO. 2 OF 2				
	1 PLACE ± --- ± ---	APPROVED BY DATE					
	0 PLACE ± --- ± ---	FSM TH 2010/10/04	MATERIAL NO. SEE CHART				
	ANGULAR ± ---°						
	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION				
	SIZE B						

9 8 7 6 5 4 3 2 1



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	47.40±0.55	42.00	22
	43.20±0.50	37.80	20
	39.00±0.45	33.60	18
	34.80±0.35	29.40	16
	30.60±0.30	25.20	14
	26.40±0.30	21.00	12
	22.20±0.30	16.80	10
	18.00±0.30	12.60	8
	13.80±0.25	8.40	6
	9.60±0.25	4.20	4
	5.40±0.20	--	2
	B	A	CKT. SIZE



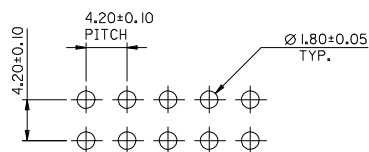
**LEGEND**

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- 87427-\*\*\*\* PLATING OPTIONS
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**NOTES**

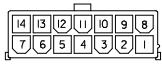
1. MATERIALS:
  - HEADER: NYLON 46, UL94V-0, COLOR SEE LEGEND.
  - PIN: BRASS
2. FINISH- PLATING OF PIN:
  - 2.2 .00254 MIN. MATTE TIN OVER .00127 MIN. NICKEL
  - 2.3 0.00076 MIN. SELECT GOLD AND 0.00254 MIN. SELECT MATTE TIN OVER 0.00127 MIN. NICKEL OVERALL
3. PRODUCT SPECIFICATION: PS-87427-0001. PACKAGING SPECIFICATION : BULK PACK PER PK-87427-004. TAPE & REEL PACK PER PK-87427-009
5. MATES WITH: MINI-FIT JR. RECEPTACLE SERIES 5557.
6. HOUSING STANDOFF (0.70mm REF)
7. THESE PARTS CONFORM TO CLASS "B" REQUIREMENTS OF 'COSMETIC SPECIFICATION PS-45499-002.
8. THIS DIMENSION IS 4.2 ON 2 CKT PARTS.
9. DISCOLORATION IN THE BANDOLIER CARRIER AREA OF THE PIN IS INHERENT TO THE PLATING PROCESS AND IS DUE TO THE MASKING EFFECT OF THE CARRIER. THIS DISCOLORATION IS IN A NON-FUNCTIONAL AREA OF THE PIN AND WILL NOT AFFECT THE PERFORMANCE OF THE HEADER ASSEMBLY.
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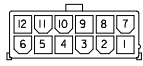


EDIT NOTE 4 E.C. NO: UCP2017-1059 DRWN: SLAFER 2016/11/08 CHKD: JIBELL 2016/11/08 APPR: FSMITH 2017/02/06	QUALITY SYMBOLS	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE 4:1	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION	
	$\nabla F=0$ $\nabla E=0$ $\nabla F=0$	4 PLACES	± ---	± ---	DRAWN BY SAM.C	DATE 960401	TITLE <b>4.2MM W-T-B          VERT. HEADER W/O FLANGES          MINI-FIT JR</b>		
		3 PLACES	± ---	± ---	CHECKED BY	DATE			
		2 PLACES	± 0.20	± ---	APPROVED BY FSMITH	DATE 2010/10/04	MATERIAL NO. <b>SEE CHART</b>	DOCUMENT NO. <b>SD-87427-***4*</b>	SHEET NO. 1 OF 2
ANGULAR ± ---° DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION							

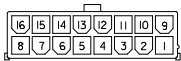
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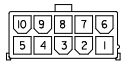
CKT.SIZE 14



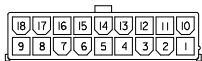
CKT.SIZE 12



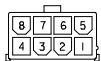
CKT.SIZE 16



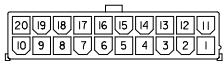
CKT.SIZE 10



CKT.SIZE 18



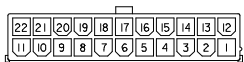
CKT.SIZE 8



CKT.SIZE 20



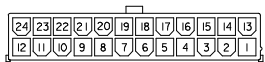
CKT.SIZE 6



CKT.SIZE 22



CKT.SIZE 4



CKT.SIZE 24



CKT.SIZE 2

"#" CONSULT FACTORY FOR AVAILABILITY

BULK PACKED		BULK PACKED		TAPE & REEL PACKED		BULK PACKED		
PLATING=TIN $\Delta$		PLATING=GOLD $\Delta$		PLATING=TIN $\Delta$		PLATING=TIN $\Delta$		
COLOR=BLACK		COLOR=BEIGE		COLOR=BEIGE		COLOR=BEIGE		
#	87427-2492	24	87427-2448	24	#	87427-2432	24	
#	87427-2292	22	87427-2248	22	#	87427-2232	22	
#	87427-2092	20	87427-2048	20	#	87427-2032	20	
#	87427-1892	18	87427-1848	18	#	87427-1832	18	
#	87427-1692	16	87427-1648	16	#	87427-1632	16	
#	87427-1492	14	87427-1448	14	#	87427-1432	14	
#	87427-1292	12	87427-1248	12	#	87427-1232	12	
#	87427-1092	10	87427-1048	10	#	87427-1032	10	
#	87427-0892	8	87427-0848	8	#	87427-0832	8	
#	87427-0692	6	87427-0648	6	#	36633-0010	6	
#	87427-0492	4	87427-0448	4	#	36633-0009	4	
#	87427-0292	2	87427-0248	2	#	36633-0008	2	
ENG. NO.	CKT. SIZE		ENG. NO.	CKT. SIZE	ENG. NO.	CKT. SIZE	ENG. NO.	CKT. SIZE

SEE SHEET 1 EC NO: UCP2017-1059 DRW:CSLAFTER 2016/11/08 CHKD:JBELL 2016/11/08 APPR:FSM TH 2017/02/06	REV 4	DESCRIPTION QUALITY SYMBOLS $\nabla_A=0$ $\nabla_B=0$ $\nabla_C=0$	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE <b>MM ONLY</b>		SCALE <b>2:1</b>	DESIGN UNITS <b>METRIC</b>	THIRD ANGLE PROJECTION 																		
			<table border="1"> <thead> <tr> <th></th> <th>mm</th> <th>INCH</th> </tr> </thead> <tbody> <tr> <td>4 PLACES</td> <td><math>\pm</math> ---</td> <td><math>\pm</math> ---</td> </tr> <tr> <td>3 PLACES</td> <td><math>\pm</math> ---</td> <td><math>\pm</math> ---</td> </tr> <tr> <td>2 PLACES</td> <td><math>\pm</math> 0.20</td> <td><math>\pm</math> ---</td> </tr> <tr> <td>1 PLACE</td> <td><math>\pm</math> ---</td> <td><math>\pm</math> ---</td> </tr> <tr> <td>0 PLACE</td> <td><math>\pm</math> ---</td> <td><math>\pm</math> ---</td> </tr> </tbody> </table>			mm	INCH	4 PLACES		$\pm$ ---	$\pm$ ---	3 PLACES	$\pm$ ---	$\pm$ ---	2 PLACES	$\pm$ 0.20	$\pm$ ---	1 PLACE	$\pm$ ---	$\pm$ ---	0 PLACE	$\pm$ ---	$\pm$ ---	DRAWN BY DATE SAM.C 960401 CHECKED BY DATE		TITLE <b>4.2MM W-T-B VERT. HEADER W/O FLANGES MINI-FIT JR</b>	
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APPROVED BY DATE FSM TH 2010/10/04		MATERIAL NO.		DOCUMENT NO. <b>SD-87427-***4*</b>		SHEET NO. <b>2 OF 2</b>																					
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS				SEE CHART		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION																					

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