



产品编号 : [1053141110](#)

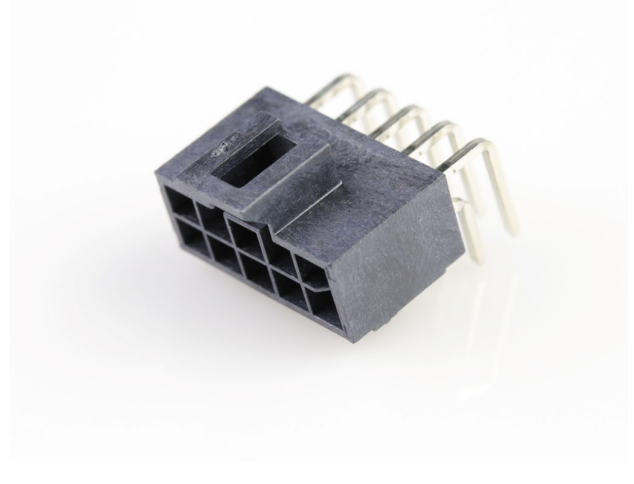
Product Description : Nano-Fit Right-Angle Header, Through Hole, 2.50mm Pitch, Dual Row, 10 Circuits, Tin (Sn) Plating, Black, Glow-Wire Capable, Tray

系列号 : 105314

状态 : Active

Product Category : PCB Headers and Receptacles

Packaging Alternative : [1053141510](#)
(Embossed Tape on Reel)



文件和资源

图纸

[图纸 1053141110_sd.pdf](#)

[包装设计图 PK-105309-200-000.pdf](#)

3D 模型和设计文件

[3D模型 1053141110_stp.zip](#)

[符号足迹数据 SYM-105314-XX10-001.zip](#)

规格

[应用规格 AS-105300-100-001.pdf](#)

[产品规格 1053001000-PS-CH-000.pdf](#)

[产品规格 1053001000-PS-ES-000.pdf](#)

[产品规格 1053001000-PS-JP-000.pdf](#)


[产品规格 1053001000-PS-SK-000.pdf](#)

[产品规格 PS-105300-100-001.pdf](#)

[测试摘要 1053001000-TS-000.pdf](#)

产物环境合规

合规

GADSL/IMDS	Not Relevant
China RoHS	
EU ELV	Not Relevant
Low-Halogen Status	Low-Halogen per IEC 61249-2-21
REACH SVHC	Not Contained per D(2023)3788-DC (14 Jun 2023)

EU RoHS	Compliant per EU 2015/863
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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

产品详情

常规

状态	活动
类别	PCB Headers and Receptacles
系列	105314
说明	Nano-Fit Right-Angle Header, Through Hole, 2.50mm Pitch, Dual Row, 10 Circuits, Tin (Sn) Plating, Black, Glow-Wire Capable, Tray
应用	Power, Wire-to-Board
元件类型	PCB Header
产品系列	Nano-Fit Power Connectors
产品名称	Nano-Fit
UPC	887191926292

机构

CSA	LR19980
UL	E29179

电气

每触点最大电流	7.5A
电压 - 最大	250V AC (RMS) /DC

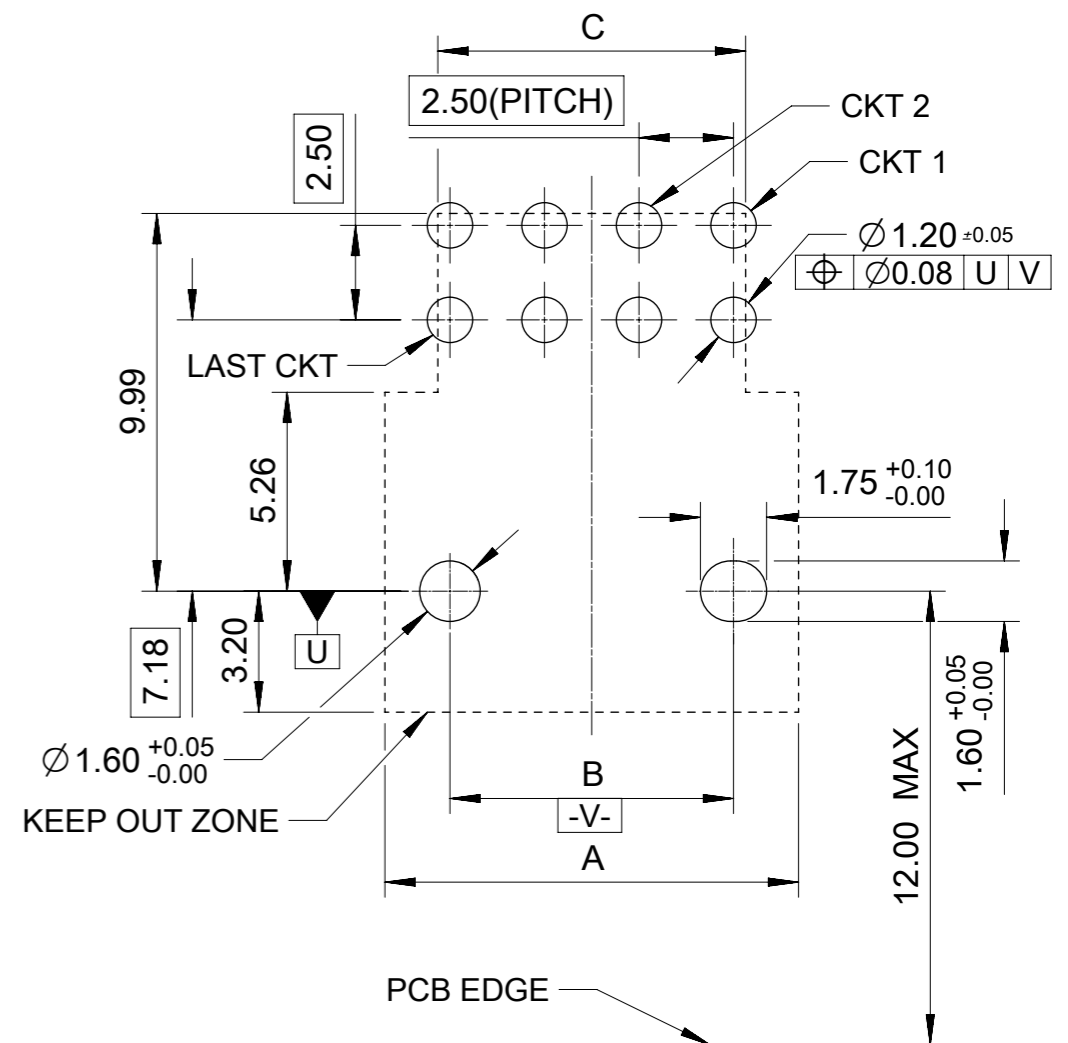
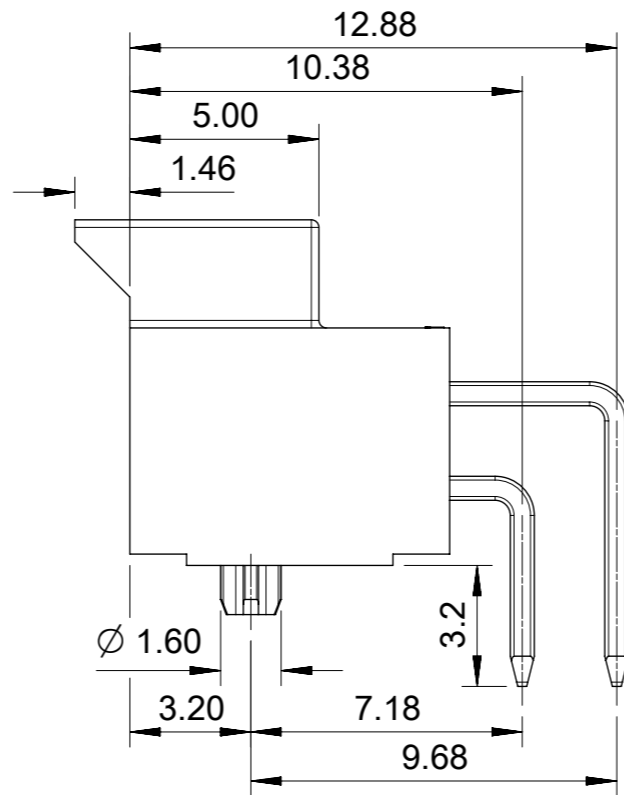
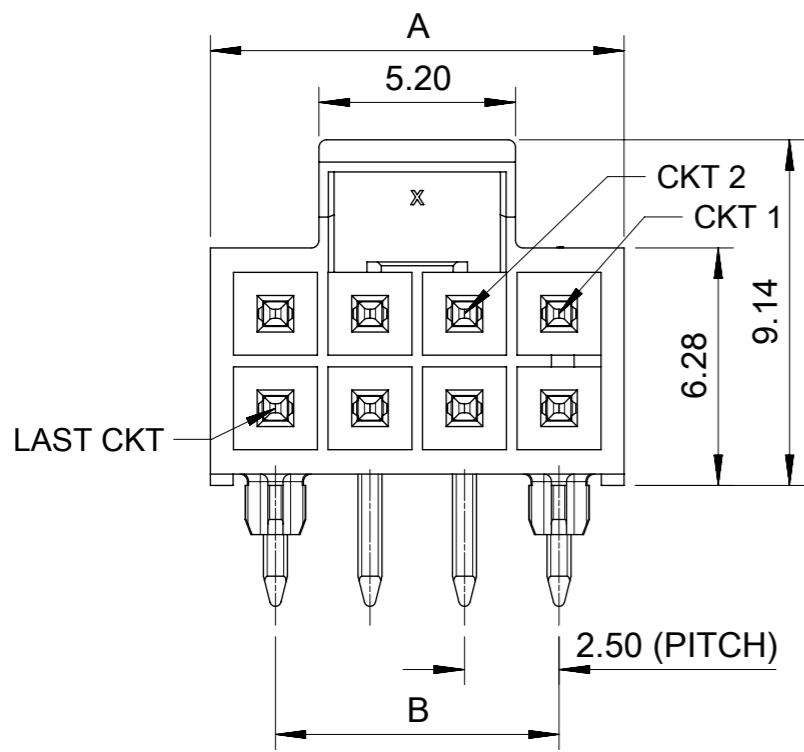
物理

断开	否
回路数 (已载入)	10
电路数 (最多)	10
颜色-树脂	黑色
耐用性(插拔次数) - 最多次数	25
阻燃性	94V-0
符合灼热丝规范	是
可配插产品指南	否
插接极性	是
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	Liquid Crystal Polymer
净重	1.100/g
行数	2
方向	Right Angle
包装形式	Tray
PC 焊脚长度	3.20mm
PCB 定位器	是
PCB 保持力	是
推荐的 PCB 厚度	1.60mm, 2.40mm
间距 - 插配接口	2.50mm
间距 - 终端界面	2.50mm
最薄镀层 - 接合部位	1.524µm
最薄镀层 - 端接	1.524µm
有极性的插配件	是
PCB 极性	是
有护墙的	是
可堆叠的	否
运行温度范围	-40° to +105° C
终端界面类型	Through Hole

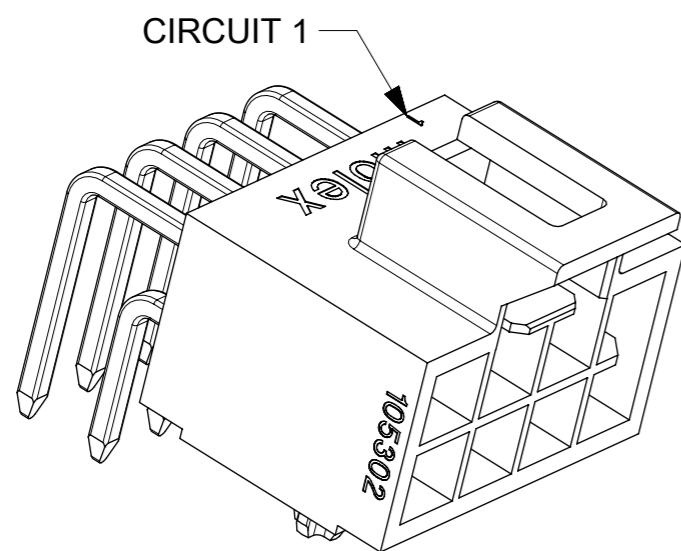
可配插/可连接使用的产品

可配插部件

描述	产品编号
Nano-Fit Receptacle Housing, TPA Capable, 2.50mm Pitch, Dual Row, 10 Circuits, Black, Glow-Wire Capable	<u>1053081210</u>
Nano-Fit-to-Nano-Fit Off-the-Shelf (OTS) Overmolded Cable Assemblies	<u>245130</u>



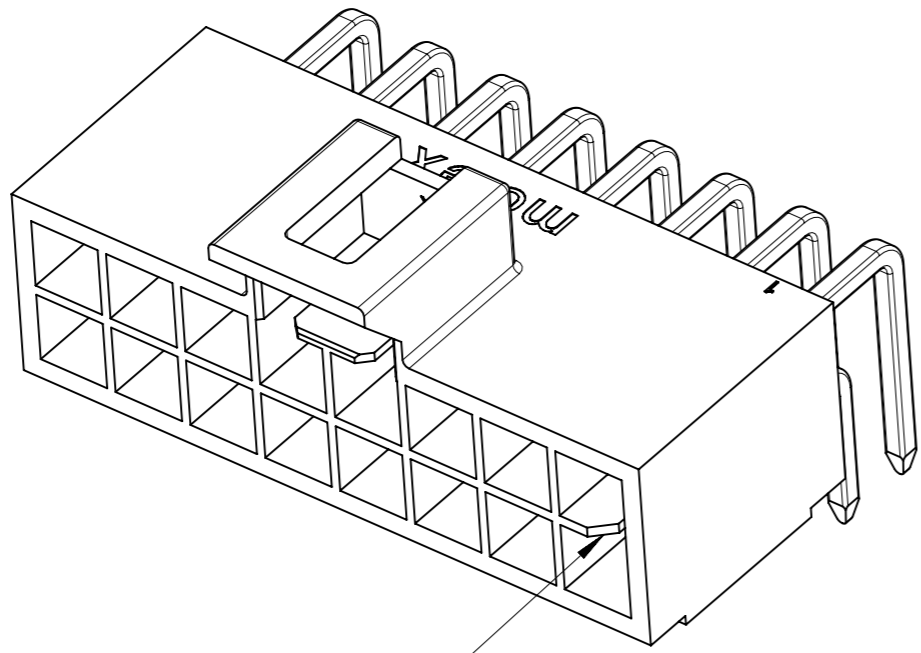
RECOMMENDED PCB(CONNECTOR SIDE VIEW) THICKNESS=1.6 TO 2.4 MM.



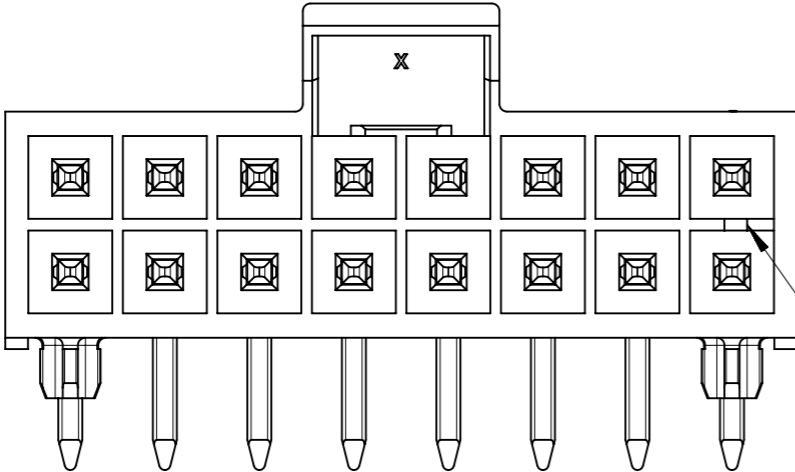
OPTION 1: LATCH FLUSH WITH PCB EDGE.
 OPTION 2: HOUSING BODY FLUSH WITH PCB EDGE.

QUALITY SYMBOLS ▽ = 0 ▽ = 0 ▽ = 0 ▼ = 0 ▽ = 0 ⊠ = 0 ■ = 0 ▽ = 0	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION											
	2020/09/09	2020/09/10	2020/09/10	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION UNITS		SCALE				
	EC NO: 644963	DRWN: GLLI	CHK'D: YXZHENG	APP'R: YXZHENG	ANGULAR TOL ± 3.0 °		mm					
	4 PLACES ± 3 PLACES ± 0.1 2 PLACES ± 0.2 1 PLACE ± 0.3 0 PLACES ±				DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		DRWN BY		DATE		HEADER OF NANO-FIT, D/R, R/A POWER CONNECTOR	
					DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		GLLI		2015/06/05			
					DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		CHK'D BY		DATE			
					DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		APP'R BY		DATE			
					DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		AYIN		2016/04/27			
	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		DRAWING SIZE		THIRD ANGLE PROJECTION		SERIES		MATERIAL NUMBER		CUSTOMER	
	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		A3				105314		SEE SHEET 2		GENERAL MARKET	
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		H		REV		DOCUMENT NUMBER		DOC TYPE		DOC PART SHEET NUMBER		
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		H		REV		SD-105314-100		PSD		000 1 OF 5		

9 8 7 6 5 4 3 2 1

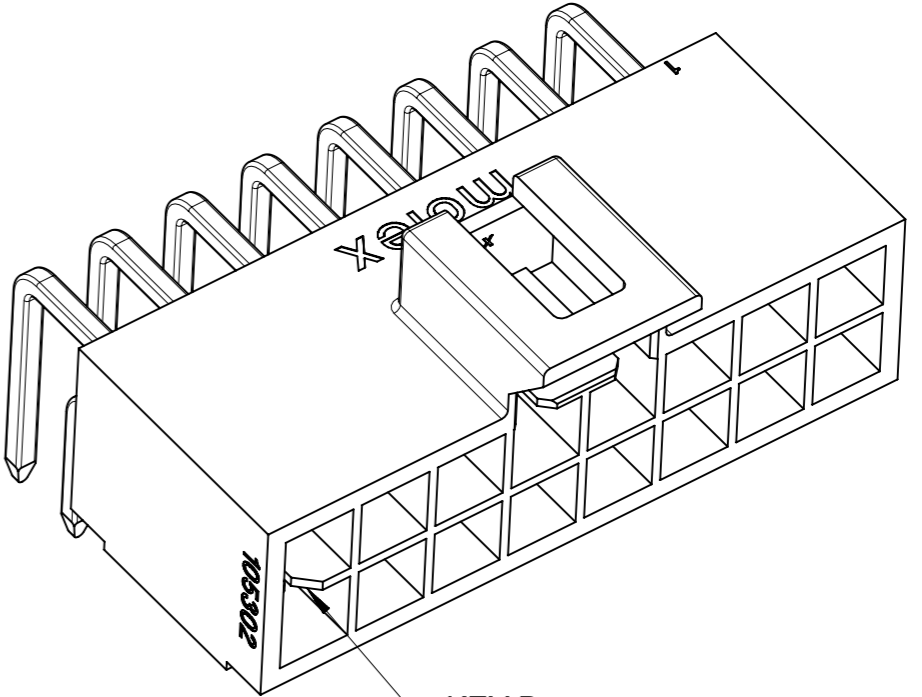


KEY A

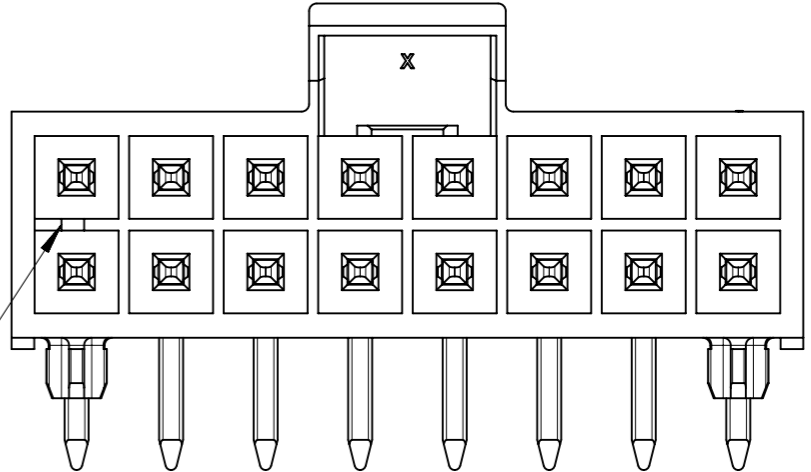


KEY A

BLACK



KEY B



KEY B

NATURAL

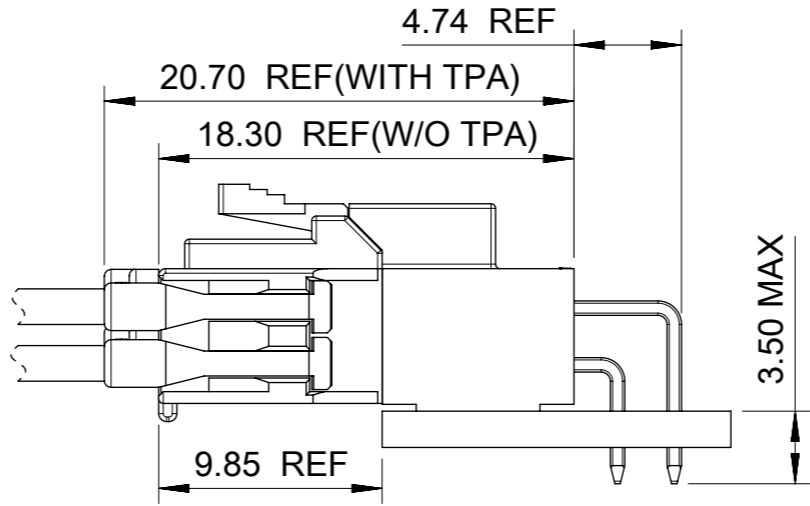
COLOR OPTION

SYMBOLS		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION		CURRENT REV DESC:		molex		
DIMENSION UNITS		SCALE						
▽ = 0	mm			EC NO: 644963		HEADER OF NANO-FIT, D/R, R/A POWER CONNECTOR		
GENERAL TOLERANCES (UNLESS SPECIFIED)				DRWN: GLLI 2020/09/09		PRODUCT CUSTOMER DRAWING		
▽ = 0	ANGULAR TOL ± 3.0°			CHK'D: YXZHENG 2020/09/10		DOCUMENT NUMBER		
▽ = 0	4 PLACES ±			APPR: YXZHENG 2020/09/10		SD-105314-100		
▽ = 0	3 PLACES ± 0.1			INITIAL REVISION:		DOC TYPE		
▽ = 0	2 PLACES ± 0.2			DRWN: GLLI 2015/06/05		PSD		
▽ = 0	1 PLACE ± 0.3			APPR: AYIN 2016/04/27		DOC PART		
▽ = 0	0 PLACES ±			THIRD ANGLE PROJECTION		000		
▽ = 0	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS			DRAWING		REVISION		
▽ = 0				SERIES		H		
				MATERIAL NUMBER		SHEET NUMBER		
				A3-SIZE		2 OF 5		
				105314		GENERAL MARKET		

DOCUMENT STATUS	P1	RELEASE DATE	2020/09/10	08:56:04
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9 8 7 6 5 4 3 2 1

9		8		7		6		5		4		3		2		1	
PART NUMBER	DIM 'A'	DIM 'B'	DIM 'C'	CKT SIZE	PLATING	LUBE											
105314-1104	5.94	2.50	3.14	4	TIN												
105314-1106	8.44	5.00	5.64	6													
105314-1108	10.94	7.50	8.14	8													
105314-1110	13.44	10.00	10.64	10													
105314-1112	15.94	12.50	13.14	12													
105314-1114	18.44	15.00	15.64	14													
105314-1116	20.94	17.50	18.14	16	GOLD 0.38	NO											
105314-1204	5.94	2.50	3.14	4													
105314-1206	8.44	5.00	5.64	6													
105314-1208	10.94	7.50	8.14	8													
105314-1210	13.44	10.00	10.64	10													
105314-1212	15.94	12.50	13.14	12													
105314-1214	18.44	15.00	15.64	14	GOLD 0.76												
105314-1216	20.94	17.50	18.14	16													
105314-1304	5.94	2.50	3.14	4													
105314-1306	8.44	5.00	5.64	6													
105314-1308	10.94	7.50	8.14	8													
105314-1310	13.44	10.00	10.64	10													
105314-1312	15.94	12.50	13.14	12	GOLD 0.76	YES											
105314-1314	18.44	15.00	15.64	14													
105314-1316	20.94	17.50	18.14	16													
105314-1404	5.94	2.50	3.14	4													
105314-1406	8.44	5.00	5.64	6													
105314-1408	10.94	7.50	8.14	8													
105314-1410	13.44	10.00	10.64	10													
105314-1412	15.94	12.50	13.14	12													
105314-1414	18.44	15.00	15.64	14													
105314-1416	20.94	17.50	18.14	16													
COLOR: BLACK																	



105314- * * * *

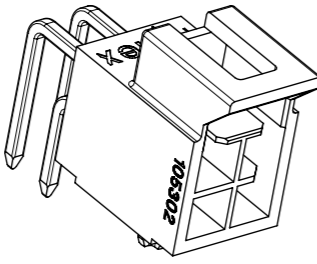
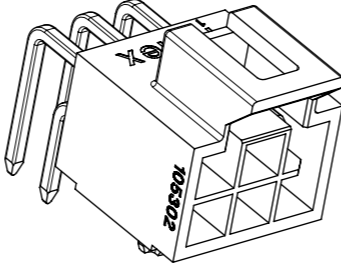
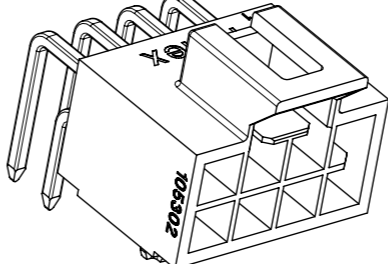
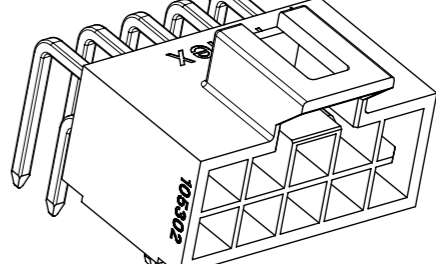
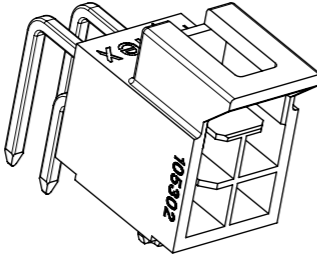
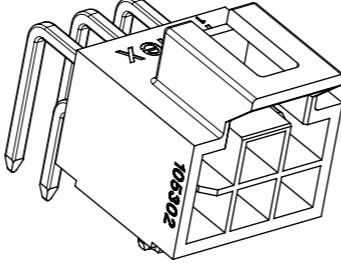
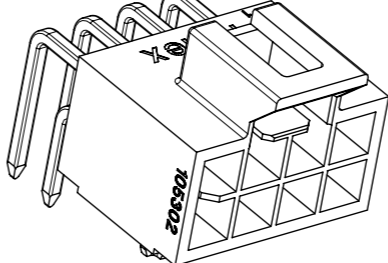
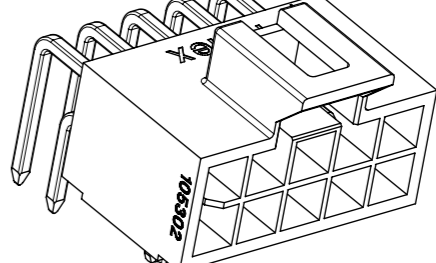
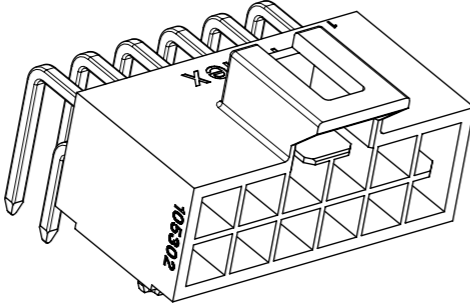
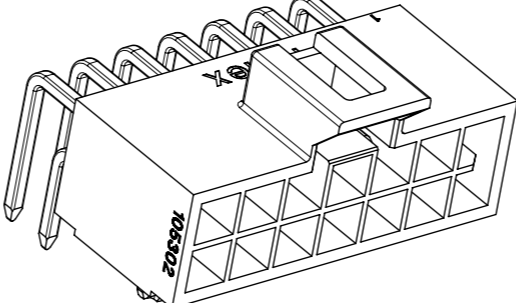
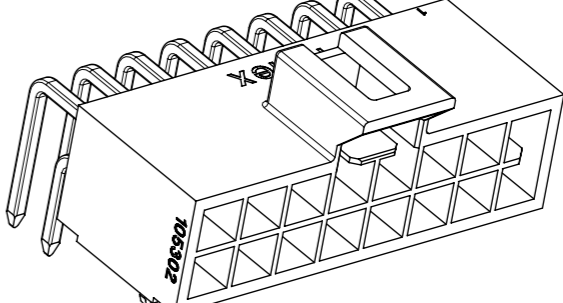
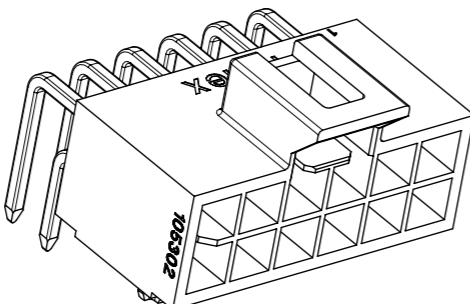
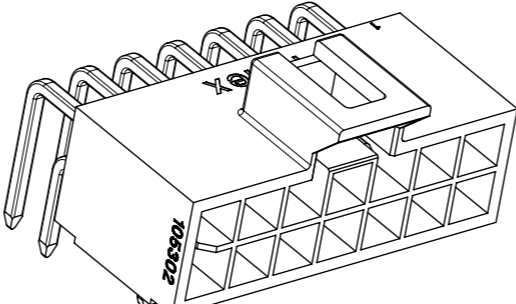
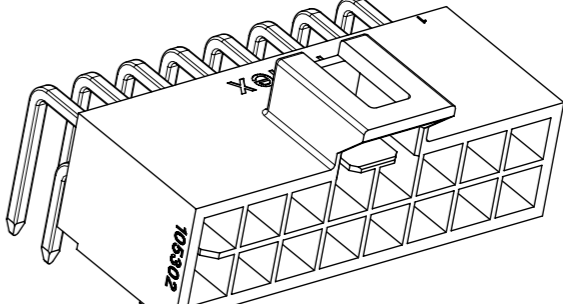
CIRCUIT SIZE
PLATING OPTION
1 - TIN
2 - GOLD 0.38
3 - GOLD 0.76
4 - GOLD AND LUBE











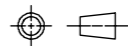
COLOR OPTION
1 - BLACK
2 - NATURAL

9		8		7		6		5		4		3		2		1	
PART NUMBER	DIM 'A'	DIM 'B'	DIM 'C'	CKT SIZE	PLATING	LUBE											
105314-2104	5.94	2.50	3.14	4	TIN												
105314-2106	8.44	5.00	5.64	6													
105314-2108	10.94	7.50	8.14	8													
105314-2110	13.44	10.00	10.64	10													
105314-2112	15.94	12.50	13.14	12													
105314-2114	18.44	15.00	15.64	14													
105314-2116	20.94	17.50	18.14	16	GOLD 0.38	NO											
105314-2204	5.94	2.50	3.14	4													
105314-2206	8.44	5.00	5.64	6													
105314-2208	10.94	7.50	8.14	8													
105314-2210	13.44	10.00	10.64	10													
105314-2212	15.94	12.50	13.14	12													
105314-2214	18.44	15.00	15.64	14	GOLD 0.76												
105314-2216	20.94	17.50	18.14	16													
105314-2304	5.94	2.50	3.14	4													
105314-2306	8.44	5.00	5.64	6													
105314-2308	10.94	7.50	8.14	8													
105314-2310	13.44	10.00	10.64	10													
105314-2312	15.94	12.50	13.14	12	GOLD 0.76	YES											
105314-2314	18.44	15.00	15.64	14													
105314-2316	20.94	17.50	18.14	16													
105314-2404	5.94	2.50	3.14	4													
105314-2406	8.44	5.00	5.64	6													
105314-2408	10.94	7.50	8.14	8													
105314-2410	13.44	10.00	10.64	10													
105314-2412	15.94	12.50	13.14	12													
105314-2414	18.44	15.00	15.64	14													
105314-2416	20.94	17.50	18.14	16													
COLOR: NATURAL																	

B

THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION																
QUALITY SYMBOLS 	EC NO: 644963 DRWN: GLLI CHK'D: YXZHENG APPR: YXZHENG	GENERAL TOLERANCES (UNLESS SPECIFIED) ANGULAR TOL ± 3.0 ° 4 PLACES ± 3 PLACES ± 0.1 2 PLACES ± 0.2 1 PLACE ± 0.3 0 PLACES ±		DIMENSION UNITS: mm SCALE:	 HEADER OF NANO-FIT, D/R, R/A POWER CONNECTOR											
		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		DRWN BY: GLLI DATE: 2015/06/05				PRODUCT CUSTOMER DRAWING								
		DRAWING SIZE: A3 THIRD ANGLE PROJECTION		APPR BY: AYIN DATE: 2016/04/27		SERIES: 105314 MATERIAL NUMBER: SEE CHART CUSTOMER: GENERAL MARKET										
		RELEASE STATUS: P1 RELEASE DATE: 2020/09/10 08:56:04				H		DOCUMENT NUMBER: SD-105314-100 DOC TYPE: PSD DOC PART: 000 SHEET NUMBER: 3 OF 5								

		4 CKT	6 CKT	8 CKT	10 CKT
E	BLACK				
D	NATURAL				
		12 CKT	14 CKT		16 CKT
C	BLACK				
B	NATURAL				

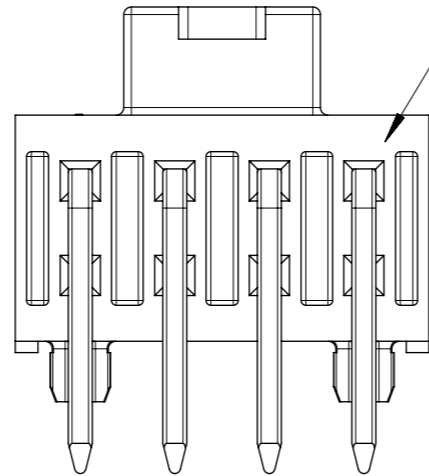
THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION												
QUALITY SYMBOLS  = 0  = 0  = 0  = 0  = 0  = 0  = 0  = 0  = 0		GENERAL TOLERANCES (UNLESS SPECIFIED) ANGULAR TOL ± 3.0 ° 4 PLACES ± 3 PLACES ± 0.1 2 PLACES ± 0.2 1 PLACE ± 0.3 0 PLACES ± DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS			DIMENSION UNITS mm		SCALE 					
EC NO: 644963 DRWN: GLLI CHK'D: YXZHENG APPR: YXZHENG		2020/09/09 2020/09/10 2020/09/10		DRWN BY GLLI		DATE 2015/06/05		HEADER OF NANO-FIT, D/R, R/A POWER CONNECTOR				
				APPR BY AYIN		DATE 2016/04/27		PRODUCT CUSTOMER DRAWING				
				DRAWING SIZE A3		THIRD ANGLE PROJECTION 		SERIES 105314	MATERIAL NUMBER SEE SHEET 2		CUSTOMER GENERAL MARKET	
								DOCUMENT NUMBER SD-105314-100		DOC TYPE PSD	DOC PART 000	SHEET NUMBER 4 OF 5

NOTES FOR ALL PARTS

1> MATERIAL:
 HOUSING: LCP, UL 94V-0.
 TERMINAL: BRASS.
 SOLDER CLIP: BRASS.

2> PLATING FINISHED:
 TERMINAL:
 CONTACT AREA: a. REFLOWED MATTE TIN 1.5MICRONS MIN;
 b. GOLD 0.38 MICRONS MIN;
 c. GOLD 0.76 MICRONS MIN.
 SOLDER AREA: TIN 1.5 MICRONS MIN, UNDER PLATING NICKEL 1.25 MICRONS MIN.
 SOLDER CLIP: TIN 2.5 MICRONS MIN, UNDER PLATING NICKEL 1.25 MICRONS MIN.

3> PRODUCT SPECIFICATION: PS-105300-100.
 4> PACKAGE: TRAY, PK-105309-200.
 5> ALL COMPONENTS AND PRODUCT COMPLIANT TO RoHS DIRECTIVE 2011/65/EU AND ELV DIRECTIVE 2000/53/EC.
 6> PRODUCT MATE WITH SERIES OF 105308(RECEPTACLE), 105300(CRIMP TERMINAL).
 7> PARTS CONFORM TO CLASS 'B'REQUIREMENTS OF COSMETIC SPECIFICATION PS-45499-002.
 8> DISCOLORATION IN THE BANDOLIER PIN CARRIER AREA OF THE PIN IS INHERENT TO THE PLATING PROCESS AND IS DUE TO THE MASKING DEFECT OF THE CARRIER, THIS DISCOLORATION IS IN A NON-FUNCTION AREA OF THE PIN AND WILL NOT AFFECT THE PERFORMANCE OF THE HEADER ASSEMBLY.



IF ANY NUMBER MARK APPEARS ON THIS SURFACE, PLEASE DISREGARD IT, IT IS NO ANY FUCTION AND NO ANY RELATION TO PIN NUMBER, IT IS JUST FOR MOLDING IDENTIFICATION.

QUALITY SYMBOLS ▽ = 0 ▽ = 0 ▽ = 0 ▼ = 0 ▽ = 0 ⊗ = 0 ■ = 0 ▽ = 0	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION										
	EC NO: 644963 DRWN: GLLI CHK'D: YXZHENG APPR: YXZHENG	2020/09/09 2020/09/10 2020/09/10		GENERAL TOLERANCES (UNLESS SPECIFIED) ANGULAR TOL ± 3.0 °		DIMENSION UNITS mm		SCALE			
		4 PLACES ±		±		DRWN BY GLLI		DATE 2015/06/05			
		3 PLACES ± 0.1		± 0.1		CHK'D BY		DATE			
		2 PLACES ± 0.2		± 0.2		APPR BY AYIN		DATE 2016/04/27			
		1 PLACE ± 0.3		± 0.3		DRAWING SIZE A3		THIRD ANGLE PROJECTION			
	0 PLACES ±		±		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS				PRODUCT CUSTOMER DRAWING		
	SERIES 105314			MATERIAL NUMBER SEE SHEET 2			CUSTOMER GENERAL MARKET				
	DOCUMENT NUMBER SD-105314-100				DOC TYPE PSD	DOC PART 000	SHEET NUMBER 5 OF 5				