

Product Name:	HPL676 - FlexLock Receptacle	
	FlexLock Receptacle	
Product Manager:	Jennifer Zhang	
Subject:	Notification of Change with Immediate Effectivity	
Distribution:	Affected customers	
Type of Change:	Design Change	
Change Description:	1. Increase 0.5mm on the height of top latch. 2. Top latch profile appearance correction.	
Reason for Change:	1. Optimize latch operation. 2. Making alignment with customer drawing.	
Affected Parts:	10158558 series	
Effective Date of Change:	March,01 2024	
Last Time Buy Date:	NA	
Earliest Disty Return Date:	NA	
Last Time Shipment Date	NA	
Datasheet Attached?	Yes	
Qual/Test Data Attached?	Yes	
Samples Availability Date:	20 February ,2024	
Available Alternatives?		
Questions?	Contact your local ACS Representative, or Product Manager	
	Jennifer Zhang / Product Manager	
	Jennifer.Zhang@fci.com	

Note:

Customers should contact Product Line Manager (or their local Amphenol Representative) directly regarding any concern on the PCN. Lack of any such customer feedback within three weeks of PCN release date will be interpreted as non-objection .

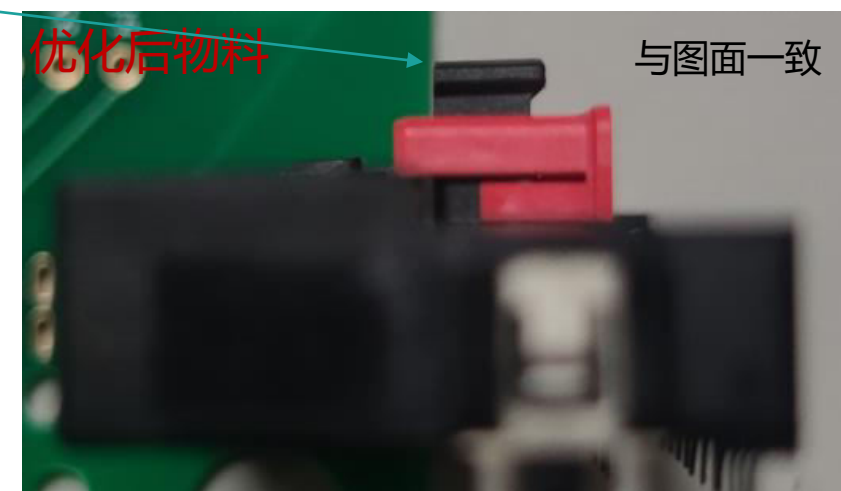
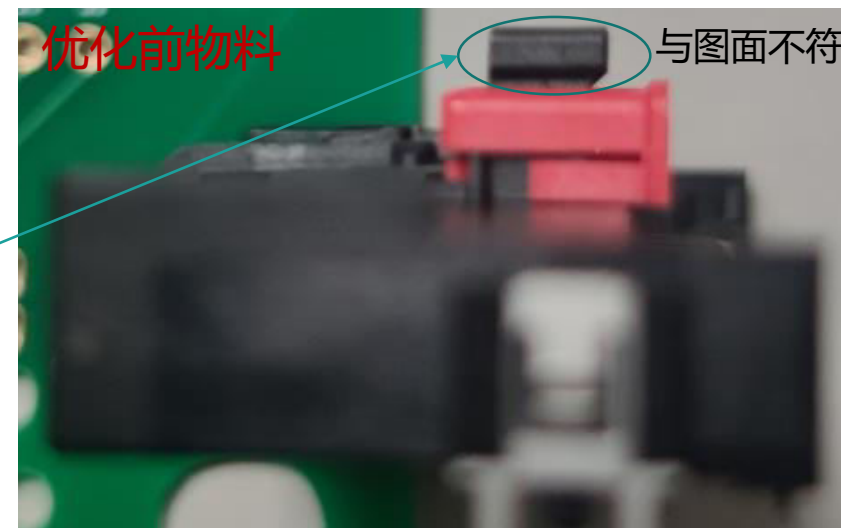
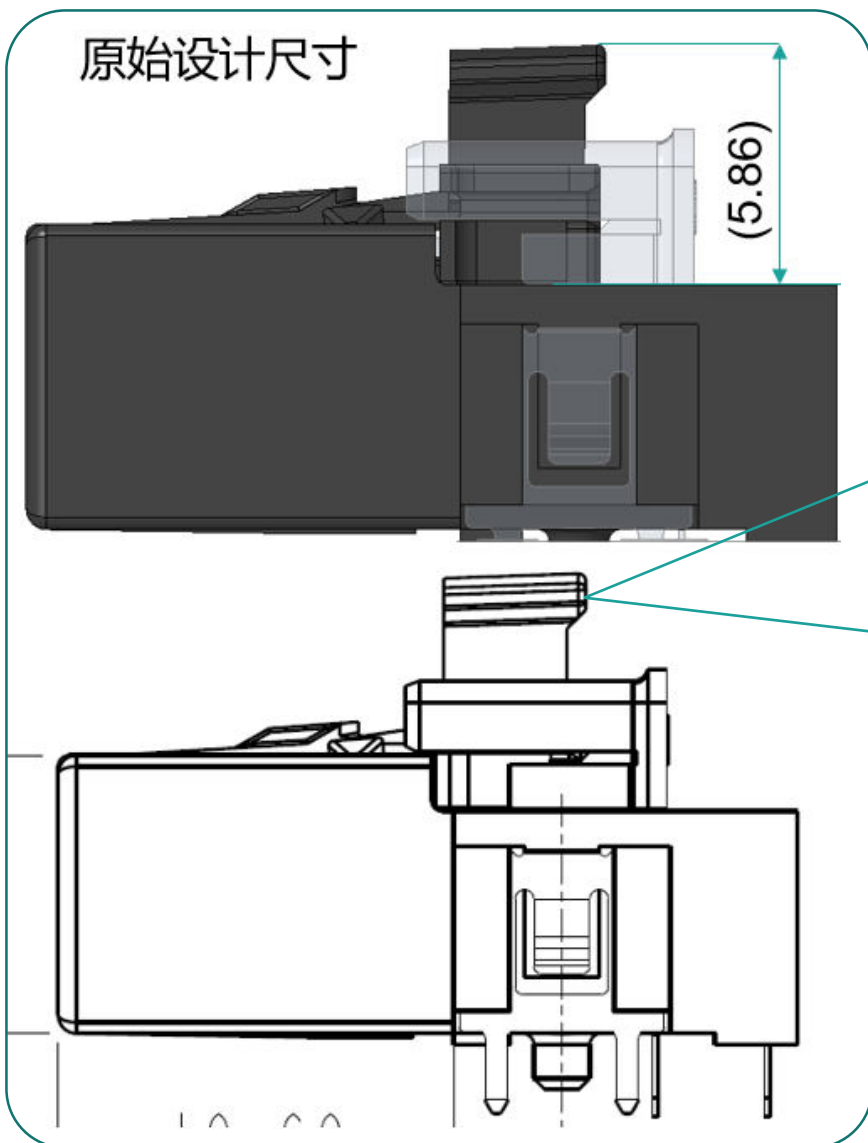
Amphenol

COMMUNICATIONS SOLUTIONS

10158558-R282111LF 卡扣加高说明

2024/02/20

 **FCi Basics**

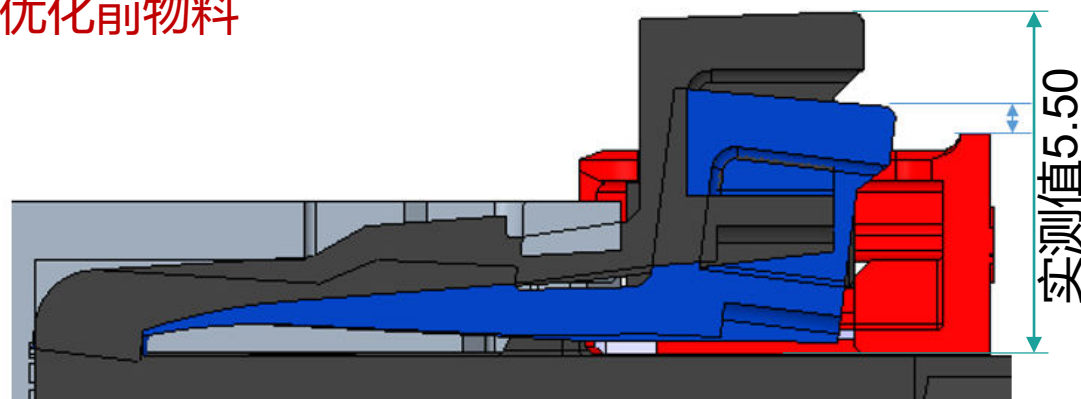


2023年11月 10158558 系列样品在客户端插拔操作时，反馈操作费力，结合实物确认

由于塑胶固有的悬臂下趴形变特性，塑胶此处按压面特征实际高度值会比模型偏小。厂内考虑将此尺寸调整至理论设计高度5.86，则需要对塑胶零件此处高度做模仁反补偿工艺优化。

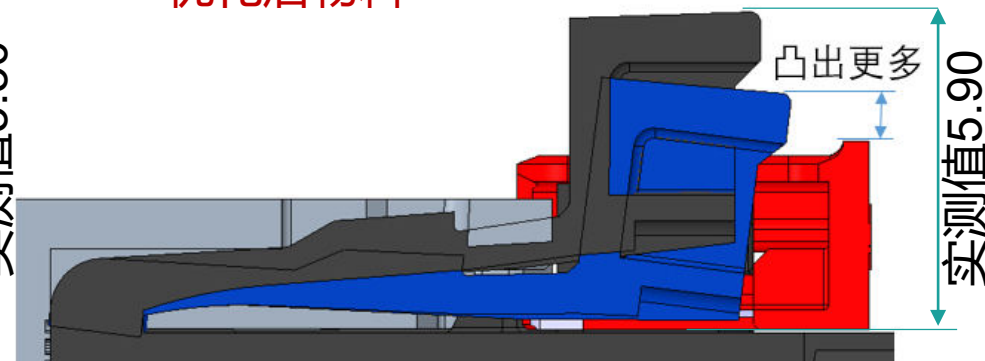
2023年12月20日，厂内评估在软模上增加0.5mm 胶位，实现按压面高出CPA 面，提高操作手感。

优化前物料



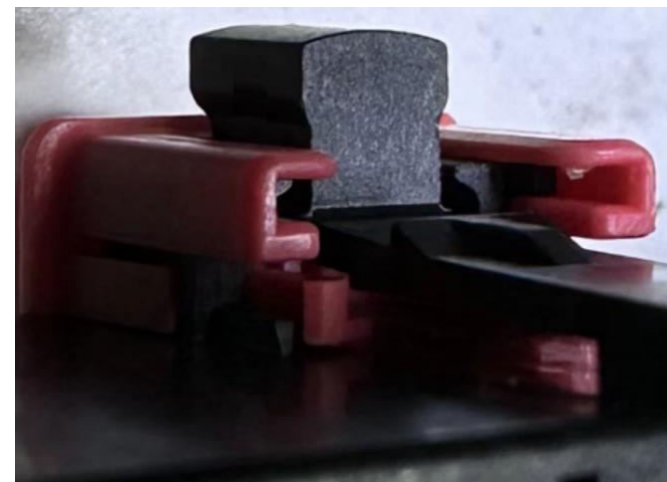
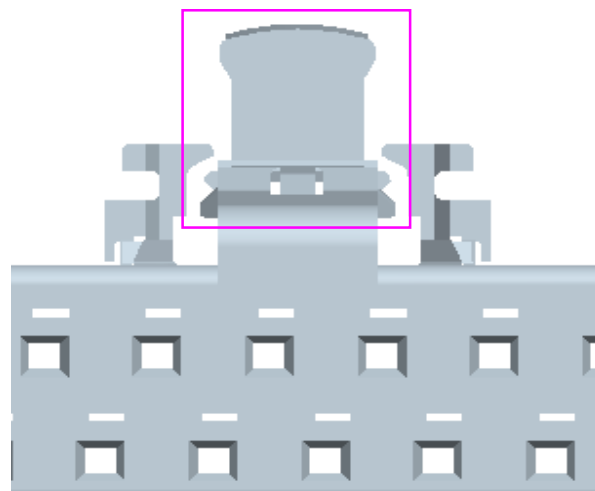
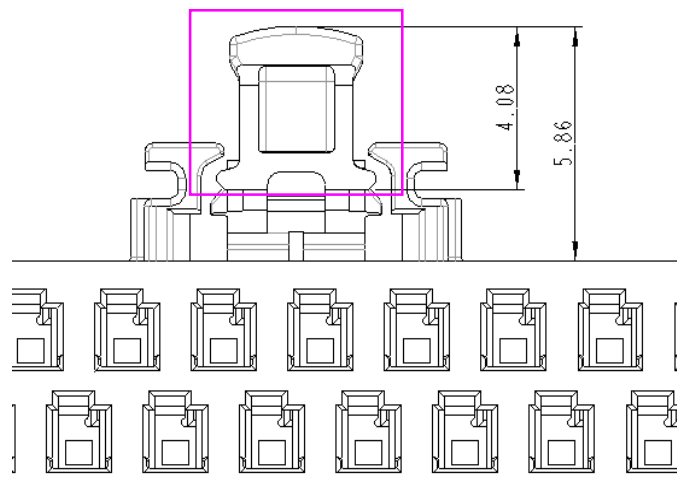
凸出不足，按压施力费力，部分力量作用在了红色CPA 上，属于无效力

优化后物料



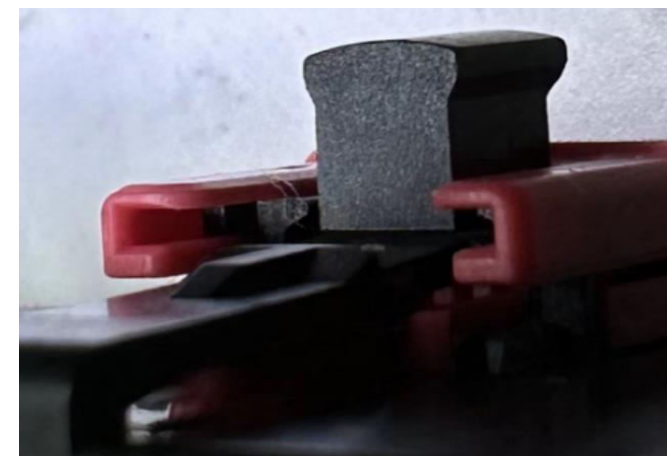
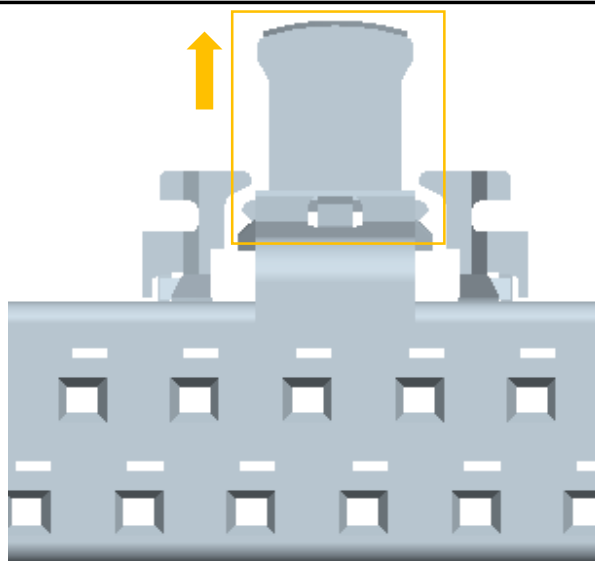
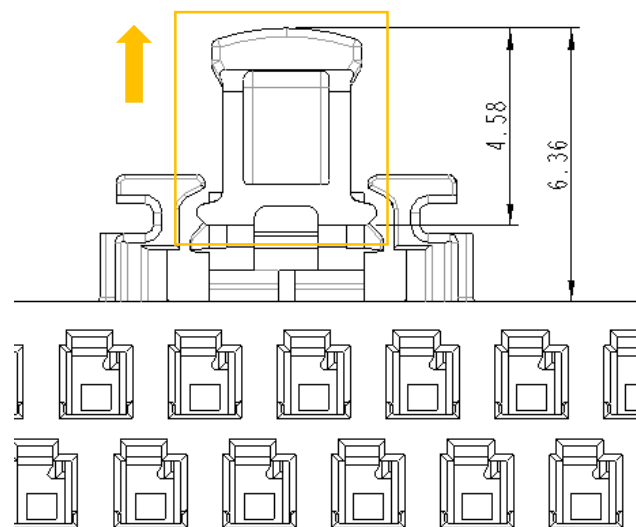
凸出更多，更便于按压施力，增加触感，避免力量作用在CPA 上

塑胶零件做形变反补偿 优化前后对比



优化前

5.86 尺寸高度 实测 5.50



优化后

6.36 尺寸高度 实测 接近设计初始值5.90

说明:

1) 优化后, 图示划框位置区域加高0.5mm;

2023年11月 10158558 系列样品在客户端插拔操作时, 反馈操作费力, 经初步评估, 抬高按压面可以改善操作感。

2023年12月20日, 厂内评估在软模上增加0.5mm 胶位, 实现按压面高出CPA 面, 提高操作手感

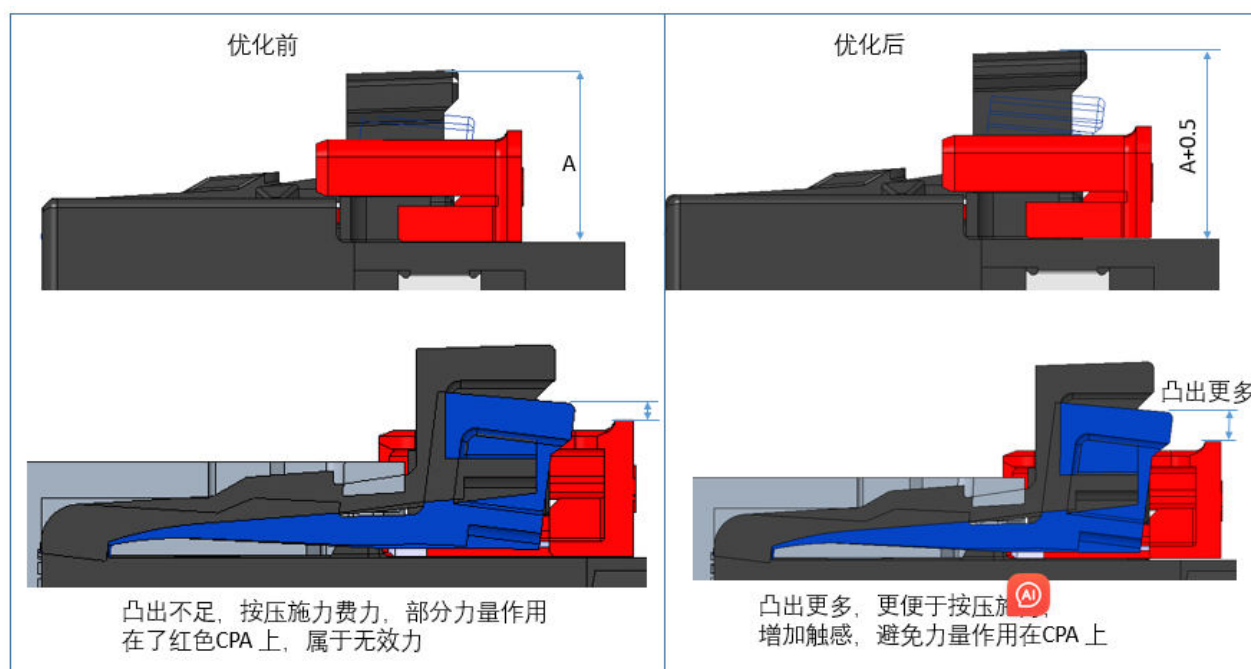
(由于此尺寸非功能性尺寸, 客户图面此尺寸未标注, 厂内定义是参考尺寸, 故厂内评估自然切换)

2024年1月20日, 厂内正式切换 (旧塑胶料全部清零)

截止2024年2月, 依旧是软模生产, 硬模计划在2024年上半年正式投入生产 (硬模产品仅进胶口位置会发生变化, 其它不变)。

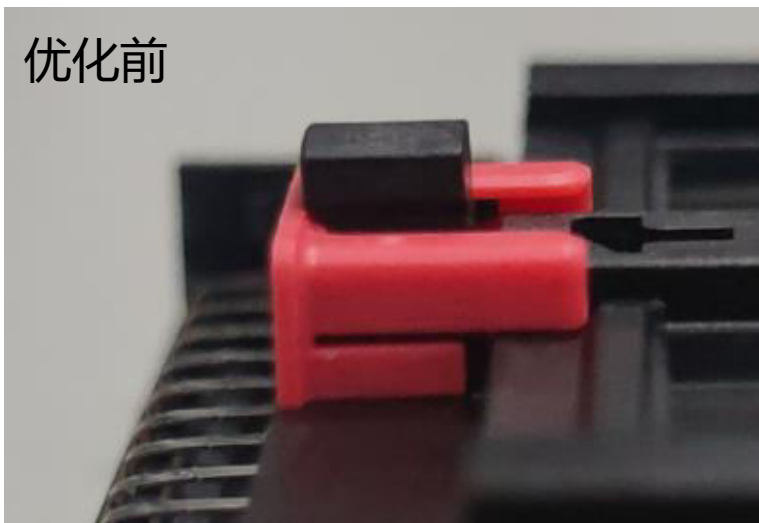
2) 优化前, 有客户反馈卡扣按压后, 影响触感;

优化后, 卡扣凸台特征加高, 增加客户使用触感, 如下截图说明 (实物与初始设计 保持一致)

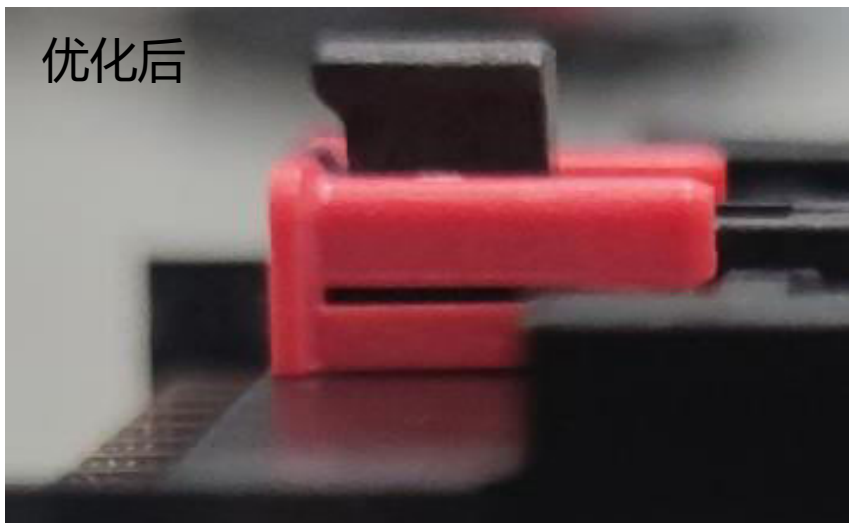


对配状态说明—实物照片对比

优化前

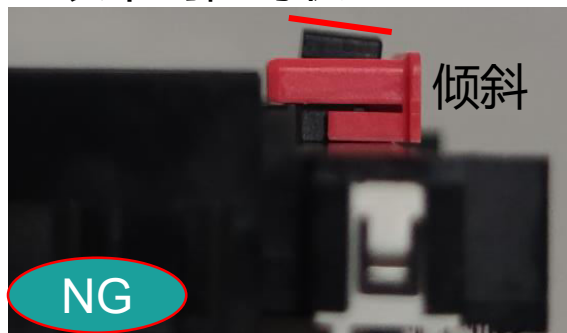


优化后



优化前

组装不到位时状态

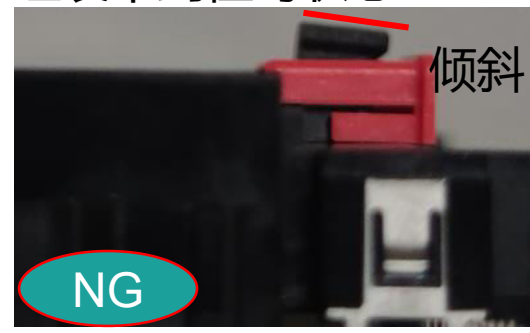


组装到位

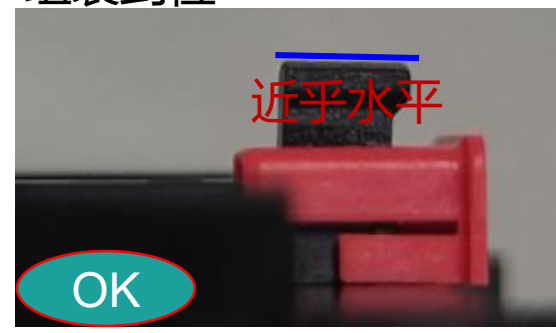


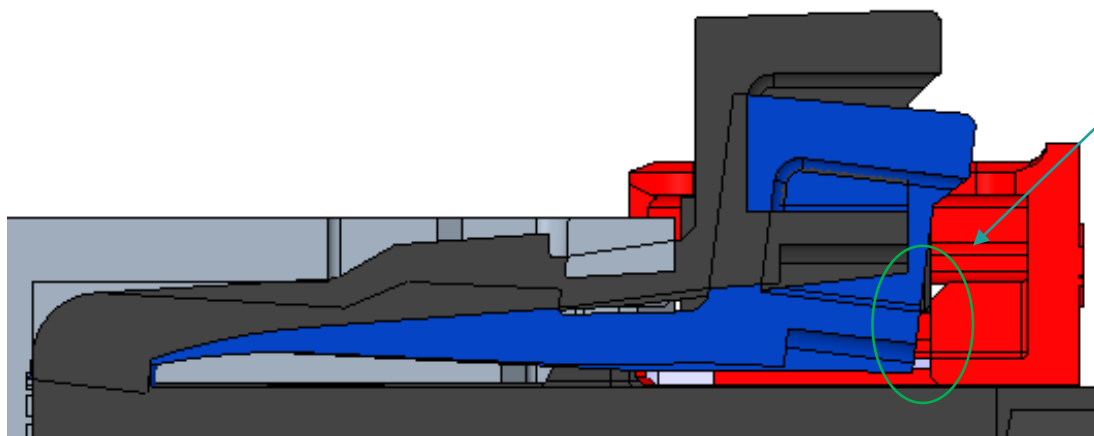
优化后

组装不到位时状态



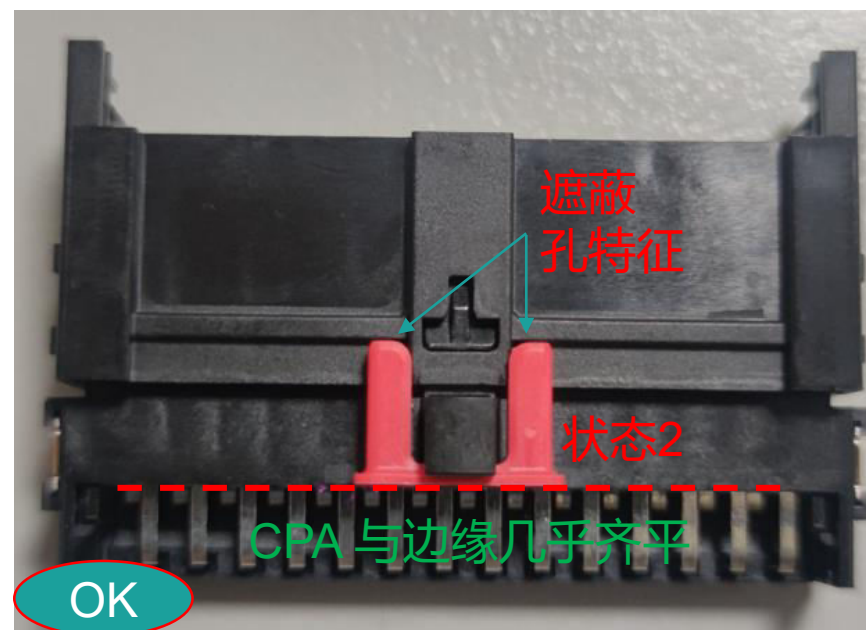
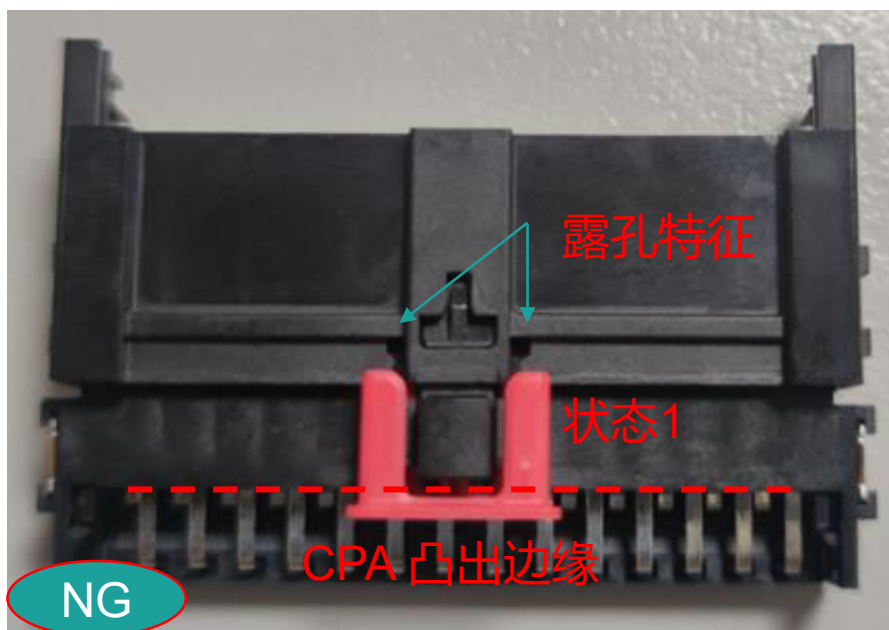
组装到位

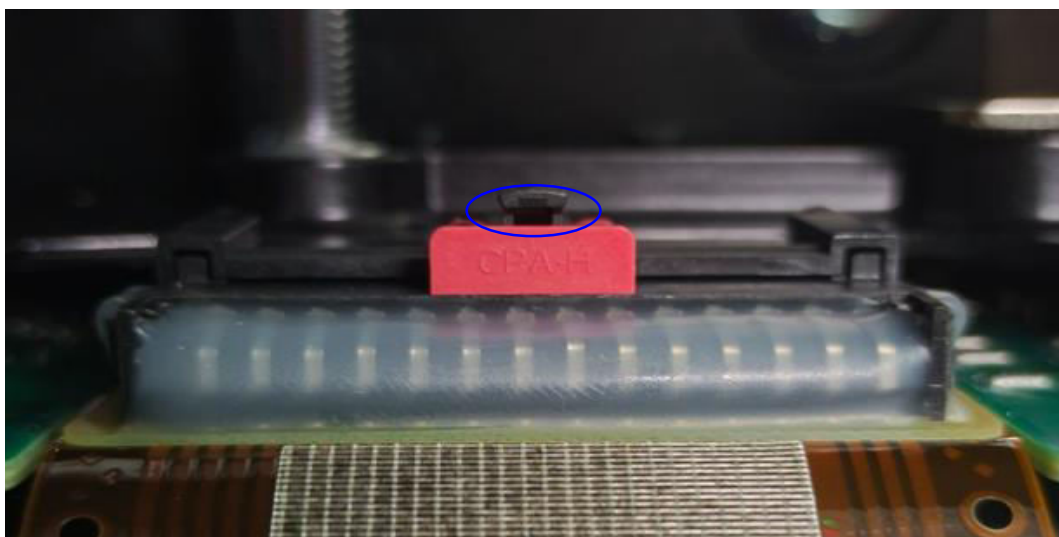
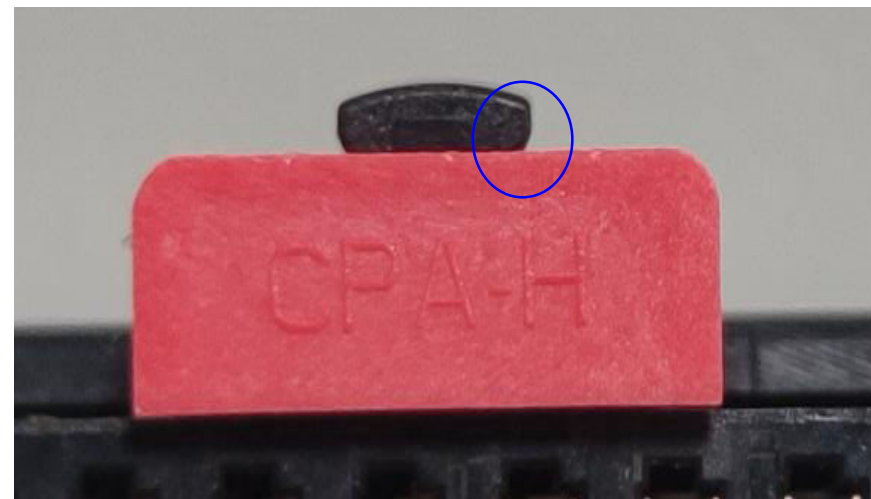
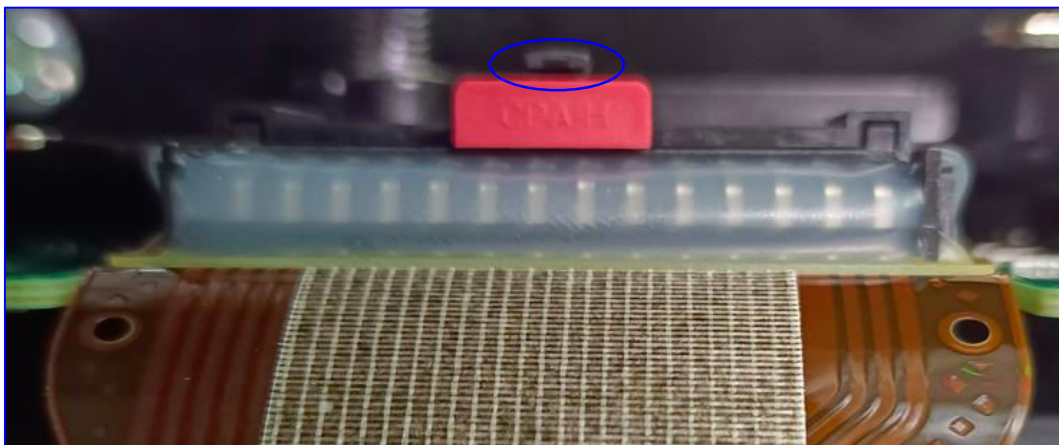




公母对配不完整时，
红色CPA 无法从状态1 推至状态 2

→ 这里设计特征决定，
CPA 处于状态2时，连接器是处于对配ok 状态。





建议客户端采用新的判定方式进行目视检测对配状态



通过走产品公差上下限，
另左右对比，此处断差更加显眼

PCN Reference	MPN	Change	Effective Date	Last Disty Return date	Last Shipment date	Alternative Parts	Product Family	Primary MU	Product Manager	Status
PCN24023	10158558-N282111LF	DESIGN CHANGE	MARCH 1, 2024				676-45XF-RA RECEPTACLES	4543-45430	JENNIFER.ZHANG@FCI.COM	ACTIVE
PCN24023	10158558-R121111LF	DESIGN CHANGE	MARCH 1, 2024				676-45XF-RA RECEPTACLES	4543-45430	JENNIFER.ZHANG@FCI.COM	ACTIVE
PCN24023	10158558-R122111LF	DESIGN CHANGE	MARCH 1, 2024				676-45ZF-VERTICAL RECEPTACLES	4543-45430	JENNIFER.ZHANG@FCI.COM	ACTIVE
PCN24023	10158558-R282111LF	DESIGN CHANGE	MARCH 1, 2024				676-45XF-RA RECEPTACLES	4543-45430	JENNIFER.ZHANG@FCI.COM	ACTIVE
PCN24023	10158558-R301111LF	DESIGN CHANGE	MARCH 1, 2024				676-45XF-RA RECEPTACLES	4543-45430	JENNIFER.ZHANG@FCI.COM	ACTIVE
PCN24023	10158558-R30210ALF	DESIGN CHANGE	MARCH 1, 2024				676-45XF-RA RECEPTACLES	4543-45430	JENNIFER.ZHANG@FCI.COM	ACTIVE
PCN24023	10158558-R30211ALF	DESIGN CHANGE	MARCH 1, 2024				676-45XF-RA RECEPTACLES	4543-45430	JENNIFER.ZHANG@FCI.COM	ACTIVE
PCN24023	10158558-R302111LF	DESIGN CHANGE	MARCH 1, 2024				676-45XF-RA RECEPTACLES	4543-45430	JENNIFER.ZHANG@FCI.COM	PRE-PRODUCTION

MPN	Cust Region	Customer Name	CEM	OEM
10158558-N282111LF	EUROPE			OTHERS
10158558-R121111LF	EUROPE			OTHERS
10158558-R122111LF	AMERICAS			OTHERS
10158558-R122111LF	ASIA/PACIFIC		CHEFSEN	OTHERS
10158558-R122111LF	EUROPE			OTHERS
10158558-R122111LF	EUROPE		VALEO	VALEO
10158558-R282111LF	AMERICAS			OTHERS
10158558-R282111LF	ASIA/PACIFIC			OTHERS
10158558-R282111LF	ASIA/PACIFIC		CHEFSEN	BYD
10158558-R282111LF	ASIA/PACIFIC		SMARTNAM TECHNOLOGY	BYD
10158558-R282111LF	EUROPE			OTHERS
10158558-R282111LF	EUROPE		TTI	OTHERS
10158558-R301111LF	AMERICAS		FLEXTRONICS	APPLE
10158558-R301111LF	EUROPE			OTHERS
10158558-R30210ALF	ASIA/PACIFIC		CHEFSEN	EVEBAT
10158558-R30210ALF	ASIA/PACIFIC		CHEFSEN	OTHERS
10158558-R302111LF	ASIA/PACIFIC		CHEFSEN	GOTION
10158558-R302111LF	EUROPE			OTHERS
10158558-R30211ALF	ASIA/PACIFIC		CHEFSEN	GOTION
10158558-R30211ALF	EUROPE		AVNET	OTHERS

PCN Reference	Item Number	Change	Effective Date of change	HPL Code - Name	S&OP Product Line Code	Item Description 1	Item Description 2	Cust Code	Cust Name	OEM Customer Code (book)	Country Code	Customer Item Number (book)	Region Name	MPS Code : CDC	Sales engineer	Site Code	Qty Booked Item UOM (book)
PCN24023	10158558-R282111LF	DESIGN CHANGE	MARCH 1, 2024	676 - FLEXLOCK	45XF	FPC RECEPTACLE RA 2	10158558-R282111LF	184C001N	CHEFSEN ELECTROICRS TECH. LTD	BYD	CN	10158558-R282111LF	ASIA/PACIFIC	C4	CHEN, JOHNSON	45430	216,320
PCN24023	10158558-R282111LF	DESIGN CHANGE	MARCH 1, 2024	676 - FLEXLOCK	45XF	FPC RECEPTACLE RA 2	10158558-R282111LF	184S001N	SHENZHEN SMARTNAM TECHNOLOGY	BYD	CN	FCI10158558-R282111LF	ASIA/PACIFIC	C4	CHEN, JOHNSON	45430	48,000
PCN24023	10158558-R122111LF	DESIGN CHANGE	MARCH 1, 2024	676 - FLEXLOCK	45ZF	.54MM-10158558-R12211		DE5592	VALEO DET.SYST.BIETIGH. BISS	VALEO	DE		EUROPE	4M	SUEUR, PHILIPPE	149000	2,016
PCN24023	10158558-R30211ALF	DESIGN CHANGE	MARCH 1, 2024	676 - FLEXLOCK	45XF	FLEXLOCK PITCH 2.54MM	A CODING	BE0049	AVNET TONGEREN	OTHERS	BE	FCI10158558R30211A	EUROPE	4M	BOUWMANS, STEFAN	188000	640
PCN24023	10158558-R301111LF	DESIGN CHANGE	MARCH 1, 2024	676 - FLEXLOCK	45XF	FLEXLOCK PITCH 2.54MM	-RECEPT PLATING AU	13968015	FLEX(RESRCH AUSTIN HALLMARK	APPLE	US	HLK2-998-29063	AMERICAS	4M		970	500
PCN24023	10158558-R122111LF	DESIGN CHANGE	MARCH 1, 2024	676 - FLEXLOCK	45ZF	FLEXLOCK RECPT RA 2	10158558-R122111LF	184C001N	CHEFSEN ELECTROICRS TECH. LTD	OTHERS	CN	10158558-R122111LF	ASIA/PACIFIC	41	CHEN, JOHNSON	45430	1,008
PCN24023	10158558-R282111LF	DESIGN CHANGE	MARCH 1, 2024	676 - FLEXLOCK	45XF	FPC RECEPTACLE RA 2	282111LF	DE1262	TTI INC.	OTHERS	DE	FCI10158558-R282111LF	EUROPE	4M	BOUWMANS, STEFAN	188000	640
PCN24023	10158558-R30211ALF	DESIGN CHANGE	MARCH 1, 2024	676 - FLEXLOCK	45XF	FLEXLOCK PITCH 2.54MM	RECEPT RA TIN A CODING	184C001N	CHEFSEN ELECTROICRS TECH. LTD	GOTION	CN	10158558-R30211ALF	ASIA/PACIFIC		CHEN, JOHNSON	45430	260
PCN24023	10158558-R30210ALF	DESIGN CHANGE	MARCH 1, 2024	676 - FLEXLOCK	45XF	FLEXLOCK PITCH 2.54MM	RECEPT RA TIN A CODING	184C001N	CHEFSEN ELECTROICRS TECH. LTD	EVEBAT	CN	10158558-R30210ALF	ASIA/PACIFIC		CHEN, JOHNSON	45430	150
PCN24023	10158558-R302111LF	DESIGN CHANGE	MARCH 1, 2024	676 - FLEXLOCK	45XF	FLEXLOCK PITCH 2.54MM	RECEPT RA TIN	184C001N	CHEFSEN ELECTROICRS TECH. LTD	GOTION	CN	10158558-R302111LF	ASIA/PACIFIC		CHEN, JOHNSON	45430	70
PCN24023	10158558-N282111LF	DESIGN CHANGE	MARCH 1, 2024	676 - FLEXLOCK		RA RECEPTACLE	10158558-N282111LF	SRHR0009	RIMAC TECHNOLOGY D.O.O	OTHERS	HR		EUROPE			SMPLRROOM	5
PCN24023	10158558-N282111LF	DESIGN CHANGE	MARCH 1, 2024	676 - FLEXLOCK		RA RECEPTACLE	10158558-N282111LF	SRHU0067	PROMO ITEM DISTRIBUTION	OTHERS	HU		EUROPE			AMSMPLRM	3
PCN24023	10158558-R121111LF	DESIGN CHANGE	MARCH 1, 2024	676 - FLEXLOCK		FLEXLOCK PITCH 2.54MM	RA-REC AU	SRSE0259	KOENIGSEGG AUTOMOTIVE AB	OTHERS	SE		EUROPE			SMPLRROOM	5
PCN24023	10158558-R122111LF	DESIGN CHANGE	MARCH 1, 2024	676 - FLEXLOCK		FLEXLOCK RECPT RA 2	10158558-R122111LF	SRGB0593	CHANDRA ARUNACHALAM	OTHERS	GB		EUROPE			SMPLRROOM	10
PCN24023	10158558-R122111LF	DESIGN CHANGE	MARCH 1, 2024	676 - FLEXLOCK		FLEXLOCK RECPT RA 2	10158558-R122111LF	SRMX0091	DULCE GONZALEZ	OTHERS	MX		EUROPE			SMPLRROOM	5
PCN24023	10158558-R122111LF	DESIGN CHANGE	MARCH 1, 2024	676 - FLEXLOCK		FLEXLOCK RECPT RA 2	10158558-R122111LF	SRUS1952	JOHN LICUP	OTHERS	US		EUROPE			SMPLRROOM	15
PCN24023	10158558-R122111LF	DESIGN CHANGE	MARCH 1, 2024	676 - FLEXLOCK		FLEXLOCK RECPT RA 2	10158558-R122111LF	SRUS1983	DIVYA SHUKLA	OTHERS	US		EUROPE			SMPLRROOM	189
PCN24023	10158558-R122111LF	DESIGN CHANGE	MARCH 1, 2024	676 - FLEXLOCK		FLEXLOCK RECPT RA 2	10158558-R122111LF	SRUS2211	AMPHENOL	OTHERS	US		EUROPE			AMSMPLRM	15
PCN24023	10158558-R282111LF	DESIGN CHANGE	MARCH 1, 2024	676 - FLEXLOCK		FPC RECEPTACLE RA 2	10158558-R282111LF	SRGAOTHR	SRGAOTHR	OTHERS	HU		EUROPE			AMSMPLRM	0
PCN24023	10158558-R282111LF	DESIGN CHANGE	MARCH 1, 2024	676 - FLEXLOCK		FPC RECEPTACLE RA 2	10158558-R282111LF	SRGB0593	CHANDRA ARUNACHALAM	OTHERS	GB		EUROPE			SMPLRROOM	10
PCN24023	10158558-R282111LF	DESIGN CHANGE	MARCH 1, 2024	676 - FLEXLOCK		FPC RECEPTACLE RA 2	10158558-R282111LF	SRIT0234	AMPHENOL CRIVELLO DARIO	OTHERS	IT		EUROPE			AMSMPLRM	20
PCN24023	10158558-R282111LF	DESIGN CHANGE	MARCH 1, 2024	676 - FLEXLOCK		FPC RECEPTACLE RA 2	10158558-R282111LF	SRIT0234	AMPHENOL CRIVELLO DARIO	OTHERS	IT		EUROPE			SMPLRROOM	0
PCN24023	10158558-R282111LF	DESIGN CHANGE	MARCH 1, 2024	676 - FLEXLOCK		FPC RECEPTACLE RA 2	10158558-R282111LF	SRKR0005	AMPHENOL CIK CO.,LTD.	OTHERS	KR		EUROPE			AMSMPLRM	30
PCN24023	10158558-R282111LF	DESIGN CHANGE	MARCH 1, 2024	676 - FLEXLOCK		FPC RECEPTACLE RA 2	10158558-R282111LF	SRNL0224	SUPER B LITHIUM POWER BV	OTHERS	NL		EUROPE			AMSMPLRM	2
PCN24023	10158558-R282111LF	DESIGN CHANGE	MARCH 1, 2024	676 - FLEXLOCK		FPC RECEPTACLE RA 2	10158558-R282111LF	SRUS0051	NTS	OTHERS	US		EUROPE			SMPLRROOM	2
PCN24023	10158558-R282111LF	DESIGN CHANGE	MARCH 1, 2024	676 - FLEXLOCK		FPC RECEPTACLE RA 2	10158558-R282111LF	SRUS0355	JUAN CHAVEZ	OTHERS	US		EUROPE			AMSMPLRM	3
PCN24023	10158558-R282111LF	DESIGN CHANGE	MARCH 1, 2024	676 - FLEXLOCK		FPC RECEPTACLE RA 2	10158558-R282111LF	SRUS1020	ION ASSOCIATES, INC. AUSTIN	OTHERS	US		EUROPE			AMSMPLRM	5
PCN24023	10158558-R301111LF	DESIGN CHANGE	MARCH 1, 2024	676 - FLEXLOCK		FLEXLOCK PITCH 2.54MM	-RECEPT PLATING AU	SRSE0259	KOENIGSEGG AUTOMOTIVE AB	OTHERS	SE		EUROPE			SMPLRROOM	5
PCN24023	10158558-R30210ALF	DESIGN CHANGE	MARCH 1, 2024	676 - FLEXLOCK	45XF	FLEXLOCK PITCH 2.54MM	RECEPT RA TIN A CODING	184C001N	CHEFSEN ELECTROICRS TECH. LTD	OTHERS	CN		ASIA/PACIFIC		CHEN, JOHNSON	45430	0
PCN24023	10158558-R302111LF	DESIGN CHANGE	MARCH 1, 2024	542 - MINIATURE WTB		FPC RECEPTACLE RA 2	10158558-R302111LF	SRGB0593	CHANDRA ARUNACHALAM	OTHERS	GB		EUROPE			SMPLRROOM	10
PCN24023	10158558-R302111LF	DESIGN CHANGE	MARCH 1, 2024	542 - MINIATURE WTB		FPC RECEPTACLE RA 2	10158558-R302111LF	SRIT0234	AMPHENOL CRIVELLO DARIO	OTHERS	IT		EUROPE			AMSMPLRM	10