

深圳市华灿天禄电子有限公司

物料承认书

SPECIFICATION FOR APPROVAL

客户名称:

Customer: _____

产品名称:

Description: _____

规格型号:

Modelno: 1. 2MM系列

物料编号:

Cust P/N: _____

出厂签章

校 对Issuer

审 核Engineer

批 准Approver

李攀进	/	罗观彬
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承认签章 CUSTOMER

校 对Issuer

审 核Engineer

批 准Approver

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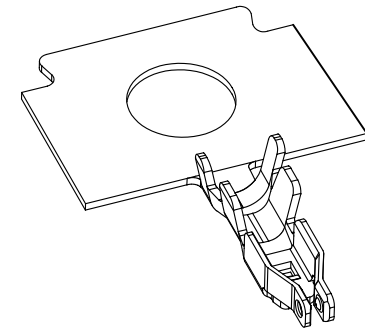
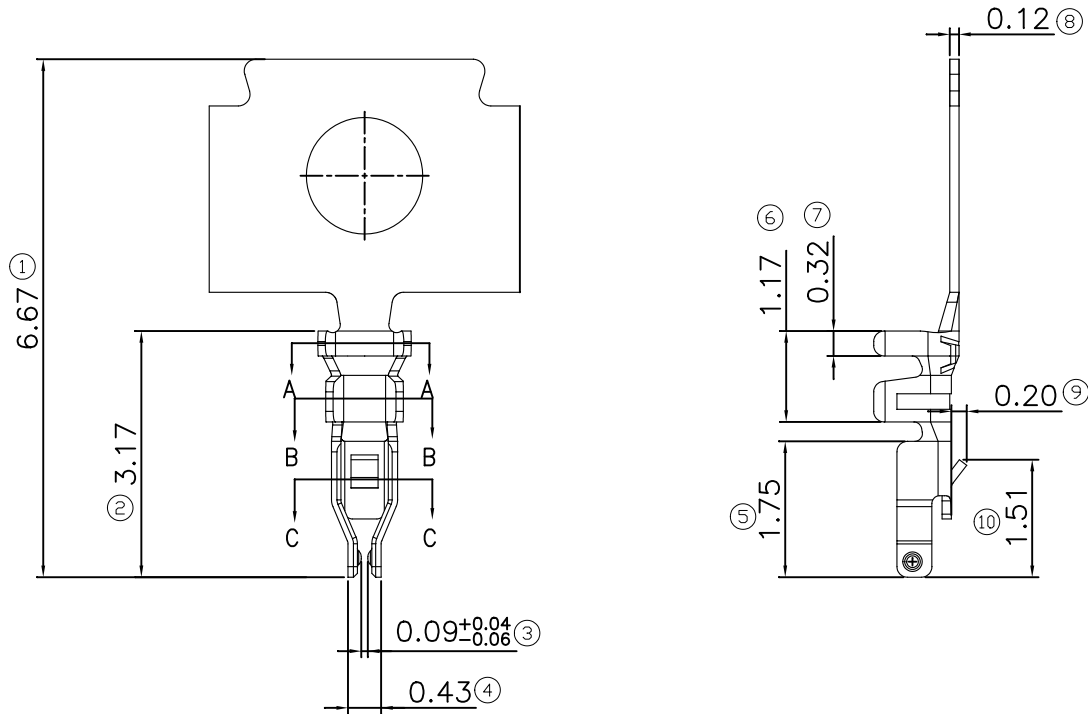
Http://www.HCTLDZ.com

E-mail: jinpan.hu@hctldz.com

确认合格后烦请回签一份给我司存档, 谢谢!

Pls. sign acknowledge and re-turn document to us after confirming, thank you !

REV.	DATE	ECN NO.	MODIFICATION	APPROVER
A	2020/10/09	/	NEW	Vicky



3D视图(SCALE .1:1)

SPECIFICATIONS

Rated voltage: 50V DC/AC

Rated current: 1.5A(28AWG),

1.0A(30AWG) AC,DC

Withstand voltage: 500V AC/minute

Working Temperature: -25°C~+85°C

Contact resistance: 20mΩ Max

MATERIAL

Material: Copper Alloy

Finish: Gold Flash over Nickel

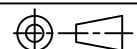
Applicable Wires:AWG#28~#30

Insulation O.D.:0.75mm MAX

SECTION.A-A

SECTION.B-B

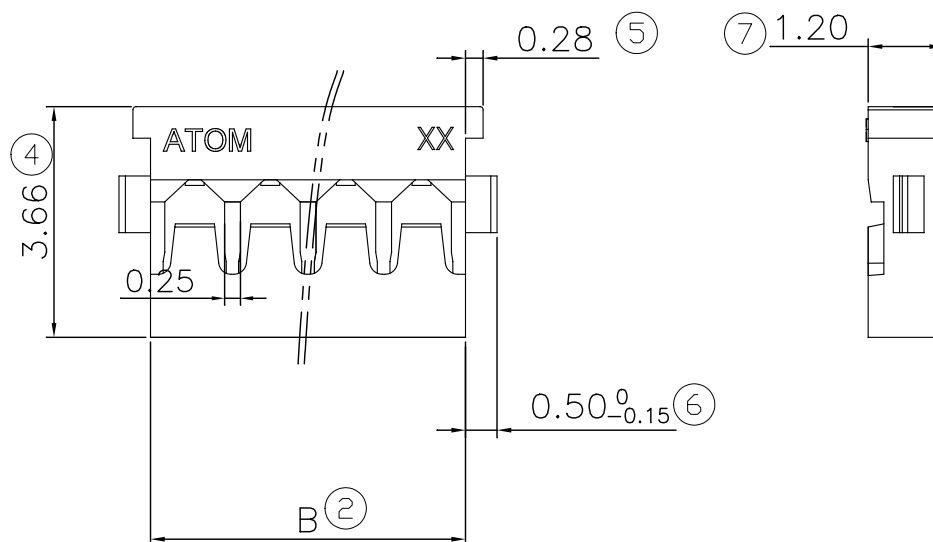
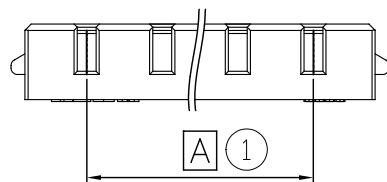
SECTION.C-C

GENERAL TOLERANCE				UNITS mm	NAME(INTENDED USE)		深圳市华灿天禄电子有限公司						
SELECT	✓			MAT'L	1.2mm 单排 铆线端子								
TOL ON:	1	2	3		PART NO.(INTENDED USE)		TITLE:						
X.XXX	±0.15	±0.05	±0.15		TR12001303		CUSTOMER DRAWING FOR 1.2mm单排 铆线端子						
X.XX	±0.20	±0.13	±0.25		FINISH	APPD: JASON		DWG NO.: HC-1.2-T					
X.X	±0.25	±0.25	±0.50	CHKD: ABEL		 <table><tr><th>SCALE</th><th>SHEET</th><th>REV.</th></tr><tr><td>1:1</td><td>1/1</td><td>A</td></tr></table>		SCALE	SHEET	REV.	1:1	1/1	A
SCALE	SHEET	REV.											
1:1	1/1	A											
X.	±0.30	±0.38	±1.00	Q'TY	DR: TOM								
ANGLE	±3°												

HF

(A1)

REV	DATE	MODIFICATION	APPROVER
A0	2021/01/14	NEW	Jason
A1	2021/06/03	增加无卤标示	Jason



1.Material:

1.1. Housing: Material: PA Nylon UL94V-0
Color: Black

2. Electrical performance:

2.1. Insulation resistance: 100MΩ MIN

3.The product environmental requirements.

3.1. Work temperature: $-25^{\circ}\text{C} \sim +85^{\circ}\text{C}$

4. Product environmental protection level:

4.1. Products comply with RoHS standards

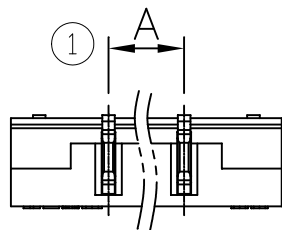
极数	尺寸	
	A	B
2PIN	1.20	2.60
3PIN	2.40	3.80
4PIN	3.60	5.00
5PIN	4.80	6.20
6PIN	6.00	7.40
7PIN	7.20	8.60



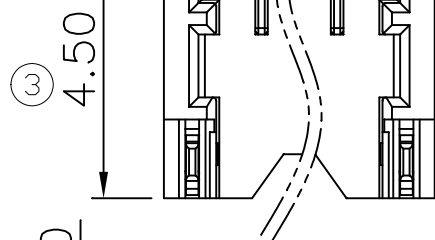
GENERAL TOLERANCE				UNITS	NAME(INTENDED USE)		深圳市华灿天禄电子有限公司			
SELECT	✓			mm	1. 2 CONN. REC. HOUSING					
TOL.	1	2	3	MAT'L	PART NO.(INTENDED USE)		TITLE: Customer drawing for 1.2(无卤) XP Housing			
X.XXX	±0.10	±0.15	±0.20		H0120**-01***					
X.XX	±0.15	±0.20	±0.25		FINISH	APPD: JASON		DWG NO.: HC-1.2-NY		
X.X	±0.20	±0.25	±0.30	CHKD: ABEL						
X.	±0.25	±0.30	±0.50	Q'TY	DR: TOM		 SCALE: 1:1 SHEET: 1/1 REV: A1			
ANGLE	±2°									

HF

(A1)



(2) B

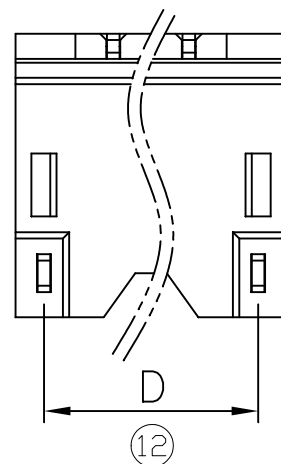
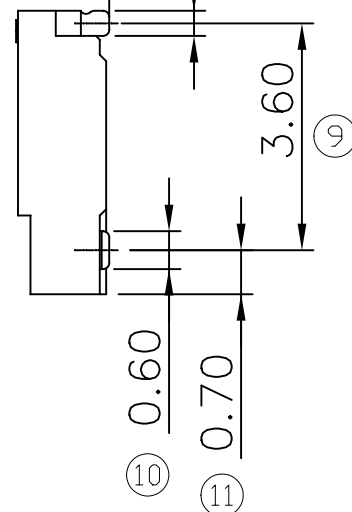


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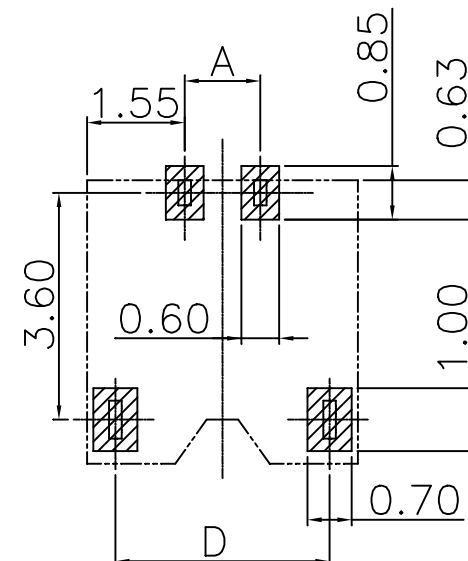
0.10

(8)

0.40



1. Material:
1.1 INSULATOR: PA NYLON UL94V-0, COLOR: BLACK.
1.2 TERMINAL: C5191 T=0.20MM,
1.3 FITTING NAIL: C2680 T=0.20MM
2. Plating of Contact
2.1 Terminal: Au 1U" Min Plated.
2.2 Fitting Nail: Matte Tin Plated.
3. Electrical performance:
3.1 Current rating: 2P~4P: 1.5A (AWG#28~#30), 2.0A (AWG#28)
5P~7P: 1.5A (AWG#28~#30). (A2)
3.2 Voltage rating: 50V AC, DC
3.3 Insulation resistance: 100MΩ Min. at 500 V DC.
3.4 Terminal contact resistance: 20mΩ Max.
3.5 Withstanding voltage: 500V AC at 1mA Max. for 1 minute.
4. Environment performance:
3.1 Operating temperature: -25℃ ~ +85℃
5. Products comply with RoHS standards



RECOMMENDED P.C BOARD LAYOUT (TOP VIEW)
TOLERANCES UNLESS OTHERWISE SPEC+/-0.05

/// PAD AREA

PIN	A	B	C	D
2P	1.20	4.30	2.64	3.40
3P	2.40	5.50	3.84	4.60
4P	3.60	6.70	5.04	5.80
5P	4.80	7.90	6.24	7.00
6P	6.00	9.10	7.44	8.20
7P	7.20	10.30	8.64	9.40

GENERAL TOLERANCE				UNITS mm		NAME (INTENDED USE)	
SELECT	✓			MAT'L		Wafer 1.2mm 连接器	
TOL.	1	2	3			PART NO. (INTENDED USE)	
X.XXX	±0.10	±0.15	±0.20	FINISH		WF120**-01***	
X.XX	±0.15	±0.20	±0.25			APPD:	
X.X	±0.20	±0.25	±0.30	Q'TY		CHKD:	
X.	±0.25	±0.30	±0.50			DR: ming	
ANGLE	±2°						
						TITLE: Customer drawing WAFER 1.2mm XP 款式 H=1.40 (无齿) 连接器	
						DWG NO.: HC-1.2-NPWT	
						SCALE: 1:1	
						SHEET: 1/1	
						REV: A2	

PRODUCT SPECIFICATION

1. 产规/Product name and part number

Product Name	1.2mm PITCH WIRE TO BOARD CONNECTOR
Terminal	Copper alloy
Housing	REC:High-temp Plastic;Color : Black. lammability
Wafer Assembly ST. (DIP/SMT)	Rating :UL94 V-0
Wafer Assembly R.A (DIP/SMT)	SMT

2. 额定电压电流及使用线径/Ratings and applicable wires

ITEM		STANDARD	
Rated Voltage(Max) 额定电压（最高）		50V DC/AC(rms)	
		AWG. #28	1. 5A
		AWG. #30	1. 0A
Applicable wires 使用线径		#30～ #28	
Insulation O.D 绝缘外径		Φ0. 6～Φ0. 7mm	
Ambient Temperature 使用温度范围		-25℃～+85℃	

3. 特性测试/Performance

3-1. 电气特性/Electrical performance

ITEM		Test condition	Requirement
3-1-1	接触阻抗 Contact Resistance	将公母对插，二头接上微电流电压测试。 Mate connectors, reassure by dry circuit ,20mV MAX, 10mA. (EIA-364-23)	20mΩ (MAX)
3-1-2	绝缘阻抗 Insulation resistance	将公母对插，二头接上电压测试 Mate connectors, apply 500V DC between adjacent terminal or ground. (EIA-364-21)	100MΩ (MIN)
3-1-3	高压测试 Dielectric strength	将公母对插，相邻的二支端子接上高压测试 Mate connectors, apply 500V AC for 1 minute between adjacent terminal or ground. (EIA-364-20)	没有损坏/没有电弧产生 No breakdown and flashover
3-1-4	铆线端子接触 阻抗 Contact Resistance on Crimped Portion	将铆线端子，二头接上微电流电压测试。 Crimp the applicable wire to the terminal, measured by dry circuits, 20mV MAX., 10mA MAX.	5 milliohms MAX

Product Description	Wafer1.2mm 系列		Product NO: WF-12-001		
			REVISION	DATE	SHEET NO
APPROVED BY	CHECKED BY	MADE BY	A/0	2018.10.25	1/8
JASON	ABEL	TOM	DOCUMENT NO	WF-12-001	

PRODUCT SPECIFICATION

3-2. 机械特性/Mechanical performance

ITEM		Test condition	Requirement		
3-2-1	Insertion force and withdrawal force 整组插拔力测试	公母对插插拔 10 次，机器行走速度 25±3mm/分钟。 Insert and withdraw connectors at the speed rate of 25 ± 3mm/minute (EIA-364-13)	第 5 参照 Refer to paragraph 5		
3-2-2	Crimping pull out force 导电体保持力（铆线端子）	端子固定住，将端子从线材拔出，机器行走速度 25±3mm/分钟。 Fix the crimped terminal, apply axial pull out force on the wire at the speed rate of 25 ± 3mm/minute (EIA 364-35)	Wire Size (AWG)	28	30
			Crimp Strength (kgf)	10N (1.0kgf) MIN	5N (0.5kgf) MIN
3-2-3	Terminal insertion force 插入力 (铆线端子)	将端子插入塑胶，测试插入值 Insert the crimped terminal into the housing (EIA-364-13)	14. 7N (1.5kgf) MAX		
3-2-4	Terminal/Housing retention force 塑胶保持力 (铆线端子)	将端子从塑胶中拔出，测试拔出值 Apply axial pull out force at the speed rate of 25±3mm/minute on the terminal assembled In the housing.	4N (0.4kgf) MIN		
3-2-5	Pin retention force (单 PIN 保持力)	将铜针从塑胶中推出，测试推出值 Apply axial push force at the speed rate of 25±3mm/minute.	2N (0.2kgf) MIN		

3-3. 环境特性测试/Environmental performance and others

ITEM		Test condition	Requirement	
3-3-1	重复插拔 Repeated insertion withdrawal	十次插拔后，测量接触阻抗 When mated up to10 cycles repeatedly by the rate of 10 cycles per minute	接触阻抗 Contact Resistance	20m Ω MAX
3-3-2.	温升测试 Temperature Rise (按需测试)	最大容许电流通电，温度测定。 (EIA-364-70 METHOD 2) Carrying rated current load.	温度上升 Temperature Rise	30℃ MAX

Product Description	Wafer1.2mm 系列		Product NO: WF-12-001		
			REVISION	DATE	SHEET NO
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JASON	ABEL	TOM	DOCUMENT NO	WF-12-001	

PRODUCT SPECIFICATION

ITEM		Test condition	Requirement	
3-3-3	振动测试 Vibration (按需测试)	DC 1mA 通电状态下; 嵌合轴沿 XYZ 三个方向振动; 振幅 1.5mm; 频率 10-55-10Hz/分; 历时 2 小时 Amplitude: 1.5mm P-P Sweep time: 10-55-10Hz in 1 minute Duration : 2 hours in each X.Y.Z. axes (EIA-364-28)	外观 Appearance	No Damage
			接触阻抗 Contact Resistance	20m Ω MAX
			瞬间 Discontinuity	1.0 microsecond MAX
3-3-4	高温测试 Heat Resistance (按需测试)	将公座与母座连接至于环境温度85±2℃测试时间 96小时, 再放置与室温下1~2小时 85±2℃, 96hours (EIA-364-17)	外观 Appearance	No Damage
			接触阻抗 Contact Resistance	20m Ω MAX
3-3-5	低温测试 Cold Resistance (按需测试)	将公座与母座连接至于环境温度-25±3℃测试时间 96 小时, 再放置于温室下 1~2 小时 -25±3℃, 96hours (EIA-364-17)	外观 Appearance	No Damage
			接触阻抗 Contact Resistance	20m Ω MAX
3-3-6	恒温恒湿测试 Humidity (按需测试)	温度 60±2℃, 湿度 90~95%, 时间 96 小时。 Temperature:60±2℃, Relative humidity:90~95%(RH) (EIA-364-31B)	Appearance	No Damage
			接触阻抗 Contact Resistance	20m Ω MAX
			耐电压 Dielectric Strength	没有损坏/没有 电弧产生
3-3-7	盐雾测试 Salt spray	时间 12 小时, 盐水体比例 5±1%, 温度 35±2℃。 12 hours exposure to a salt spray from the 5 ±1% solution at 35±2℃. (EIA-364-26)	外观 Appearance	No Damage
			接触阻抗 Contact Resistance	20m Ω MAX
3-3-8	沾锡性测试 Solderability	时间: 3±0.5 秒, 温度: 245±5℃ Soldering time:3±0.5sec, solder temperature:245±5℃ (EIA-364-52)	95%以上沾锡面积	

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			REVISION	DATE	SHEET NO
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JASON	ABEL	TOM	DOCUMENT NO	WF-12-001	

PRODUCT SPECIFICATION

ITEM	Test condition	Requirement
2-3-9	1). Reflow part 260±5℃ Peak 220℃ MIN. 60sec. MAX. 2). Pre-heat part 180℃, 0~120sec. * Refer to reflow temperature profile. Resistance to soldering heat 焊热性测试	Appearance 外观 No Damage 无损坏、变形

4. 产品规格尺寸及材质请参考工程图面/Product shape, Dimensions and materials

5. 整组插拔力/Insertion force and withdrawal force (UNIT:N/Kgf)

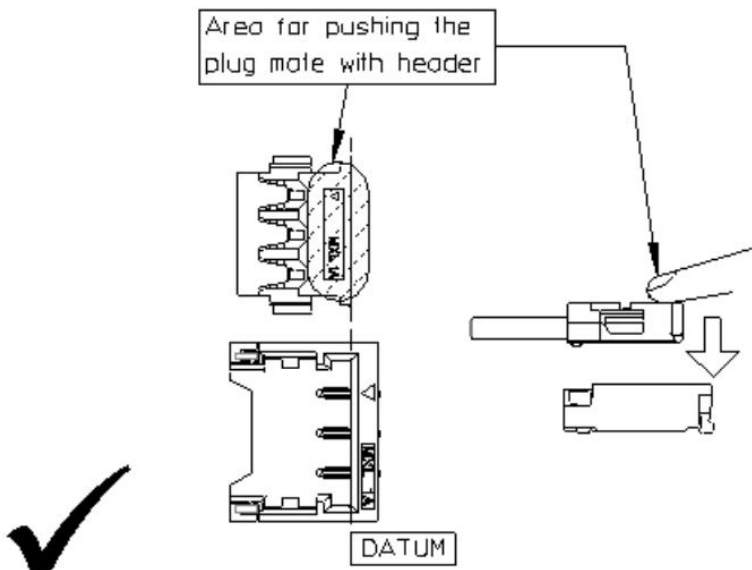
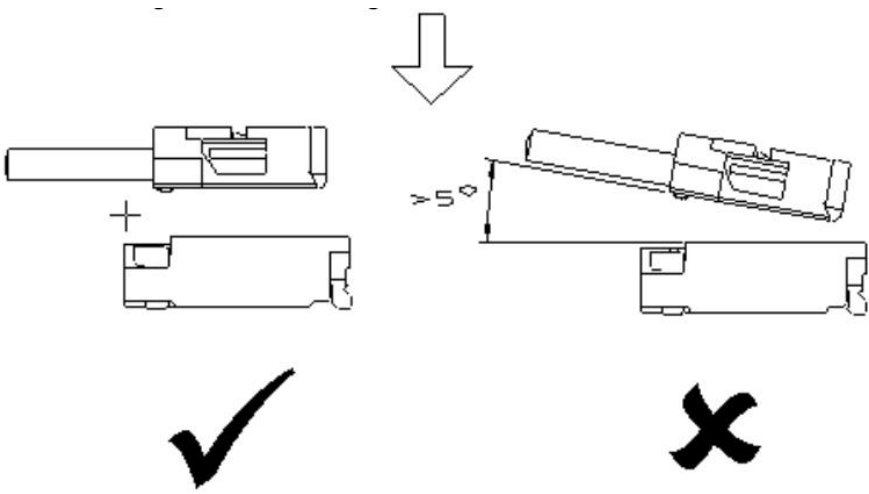
极数 NO. OF CKT	单位: UNIT	插入力 (最大值) : Insertion (MAX)			拔出力 (最小值) : Withdrawal (MIN)		
		初始: 1ST	3 次: 3ST	10 次: 10ST	初始: 1ST	3 次: 3ST	10 次: 10ST
2	N {kgf}	18 {1.8}	18 {1.8}	18 {1.8}	4.0 {0.41}	1.8 {0.18}	1.2 {0.12}
3	N {kgf}	21 {2.1}	21 {2.1}	21 {2.1}	4.0 {0.41}	1.8 {0.18}	1.2 {0.12}
4	N {kgf}	24 {2.4}	24 {2.4}	24 {2.4}	4.0 {0.41}	1.8 {0.18}	1.2 {0.12}
5	N {kgf}	27 {2.8}	27 {2.8}	27 {2.8}	2.5 {0.26}	1.8 {0.18}	1.2 {0.12}
6	N {kgf}	30 {3.1}	30 {3.1}	30 {3.1}	2.5 {0.26}	1.8 {0.18}	1.2 {0.12}
7							

6. 产品符合 ROHS/HF 要求/Lead free and ROHS/HF compliant product

Product Description	Wafer1.2mm 系列		Product NO: WF-12-001		
			REVISION	DATE	SHEET NO
APPROVED BY	CHECKED BY	MADE BY		2018.10.25	4/8
JASON	ABEL	TOM	DOCUMENT NO	WF-12-001	

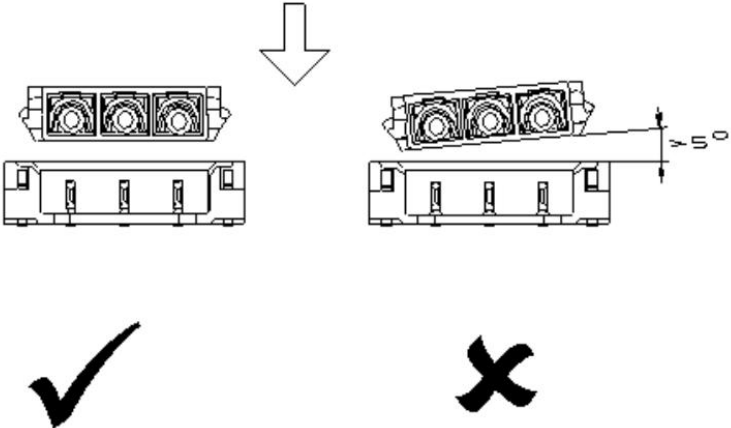
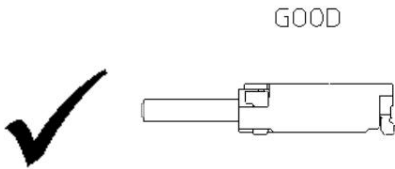
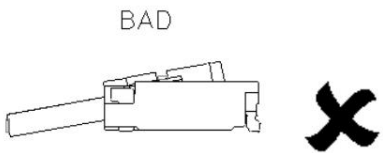
PRODUCT SPECIFICATION

7. 连接器操作标准/CONNECTOR HANDLING CRITERIA

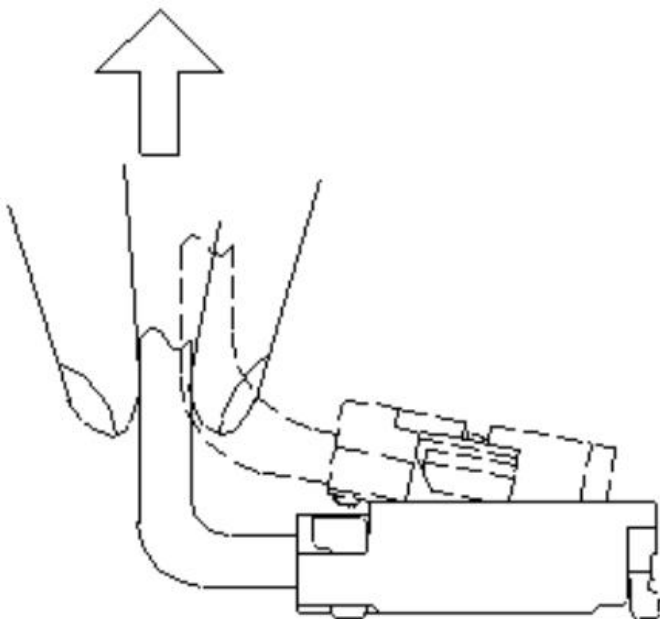
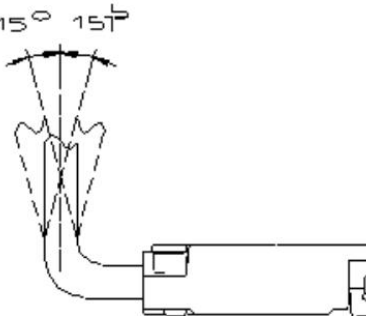
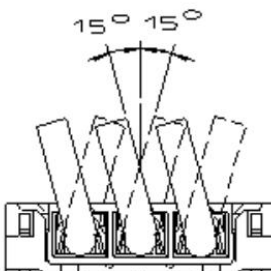
ITEM	操作图示标准/Operating standards here
7-1-1 Align plug on top of receptacle as per datum shown in fig. 1. Press down the plug at ighlighted area toward the eceptacle to mate the connectors.	 FIG. 1
7-1-2 During mating process, If incase the plug is angle mated towards the straight part of mating entrance as in fig. 2, the allow angle must not exceed 5°	

Product Description	Wafer1.2mm 系列		Product NO: WF-12-001		
			REVISION	DATE	SHEET NO
APPROVED BY	CHECKED BY	MADE BY		2018.10.25	5/8
JASON	ABEL	TOM	DOCUMENT NO	WF-12-001	

PRODUCT SPECIFICATION

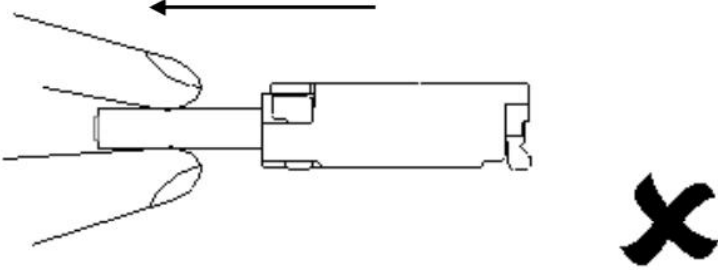
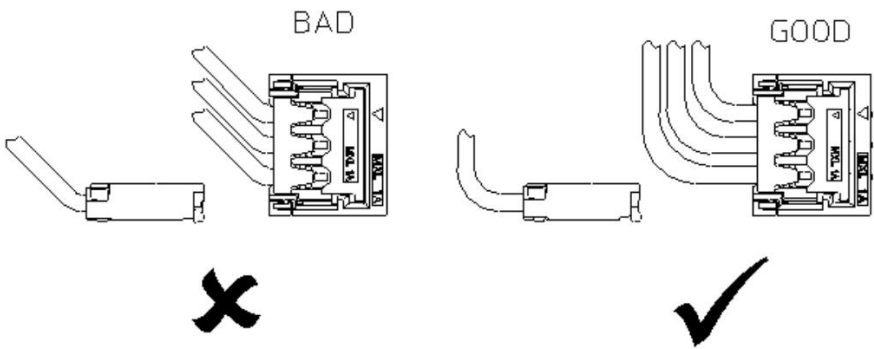
ITEM		操作图示标准/Operating standards here
7-1-2	Align plug on top of receptacle as per datum shown in fig.1.Press down the plug at ighlighted area toward the eceptacle to mate the connectors.	 FIG. 2
7-1-3	When connector is fully mated, as shown in fig. 3.1, check for any incomplete mating which will cause damaged contacts as shown in fig. 3.2	 FIG. 3.1  FIG 3.2
Product Description		Product NO: WF-12-001
		REVISION DATE SHEET NO
APPROVED BY	CHECKED BY	MADE BY
JASON	ABEL	TOM
DOCUMENT NO		WF-12-001

PRODUCT SPECIFICATION

ITEM		操作图示标准/Operating standards here
7-1-4	Connector unmating method, Hold gently on plug wires and pull up to unmate the connector as per fig. 4 shown.	 FIG. 4
7-1-5	For unmating process, plug wires pull and stress angle must be maintained within 15° as per fig.5 shown	  FIG. 5

Product Description	Wafer1.2mm 系列		Product NO: WF-12-001		
			REVISION	DATE	SHEET NO
APPROVED BY	CHECKED BY	MADE BY		2018.10.25	7/8
JASON	ABEL	TOM	DOCUMENT NO	WF-12-001	

PRODUCT SPECIFICATION

ITEM		操作图示标准/Operating standards here
7-1-6	Connector shall not be unmated horizontally as shown in fig. 6 to prevent part damage	 FIG. 6
7-1-7	Application consideration Make certain the areas & space where the connector placed are clear and sufficient to prevent over stress on plug wires as example shown in fig. 7	 FIG. 7
Product Description		Product NO: WF-12-001
		Wafer1.2mm 系列 REVISION DATE SHEET NO
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