



东莞市津达电子有限公司

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承 认 书

SPECIFICATION FOR APPROVAL

客 户

CUSTOMER _____

品 名

PART NAME 2.54 mm PITCH FPC CONNECTOR

料 号

PART NO FPC2.54A-L-nP

样品提供(SAMPLE PROVIDE)

工程 Engineering	业务 Sales	核准 Approval

客户承认(CUSTOMER APPROVAL)

工程 Engineering	品管 Q.C	核准 Approval

备注: (NOTE):



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FPC 2.54A 型 SERIES CONNECTORS

内容: 此规格书包含 FPC 2.54 PITCH A 型系列连接器。

Scope: This specification covers the Pitch 2.54A FPC Connector series.

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Note::以上测试视公司之测试条件/能力而定。

FILE NO	ENS013	APPROVAL	CHECK	DRAWING
ECR/N NO	New spec			



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1. 产品名称及料号/Product name and part number

Product Name	Part Number
Vertical pype 立式	FPC2.54A-L-12P

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

ITEM	STANDARD
Voltage Rating (Max) 额定电压 (最高)	250V DC/AC(rms)
Current Rating (Max) 额定电流 (最高)	2.0A, AC/DC
Applicable Cable 使用线性	0.30mm flat Proper cable
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 Contact Resistance 接触阻抗	Mate connectors, reassure by dry circuit ,20mV MAX,10mv.(Based upon JIS C5402 5.4) 将 FFC 插入, 二头接上微电流电压测试。	0.03Ω (MAX)
3-1-2 Insulation resistance 绝缘阻抗	Mate connectors, apply 500V DC between adjacent terminal or ground. (Based upon JIS C5402 5.2/MIL-STD-202 method 302 condition B) 将 FFC 插入, 二头接上电压测试	1000MΩ (MIN)
3-1-3 Dielectric strength 高压测试	Mate connectors, apply 500V AC for 1 minute between adjacent terminal or ground. (Based upon JIS C5402 5.1/MIL-ST-202 Method 301) 相邻的二支端子接上高压测试	No breakdown and flashover 没有损坏/没有电弧产生

3-2. 机械特性/Mechanical performance

ITEM	Test condition	Requirement
3-2-1 FPC insertion force 插入力	Insert the FFC into the Connectors 将 FFC 插入连接器, 测试插入值	孔位数*1.96N (MAX)
3-2-2 FPC retention force FPC 保持力	Apply axial pull out force at the speed rate of 25±3mm/minute on the FFC assembled In the Connectors 将 FFC 从连接器中拔出, 测试拔出值	孔位数*0.49N (MIN)



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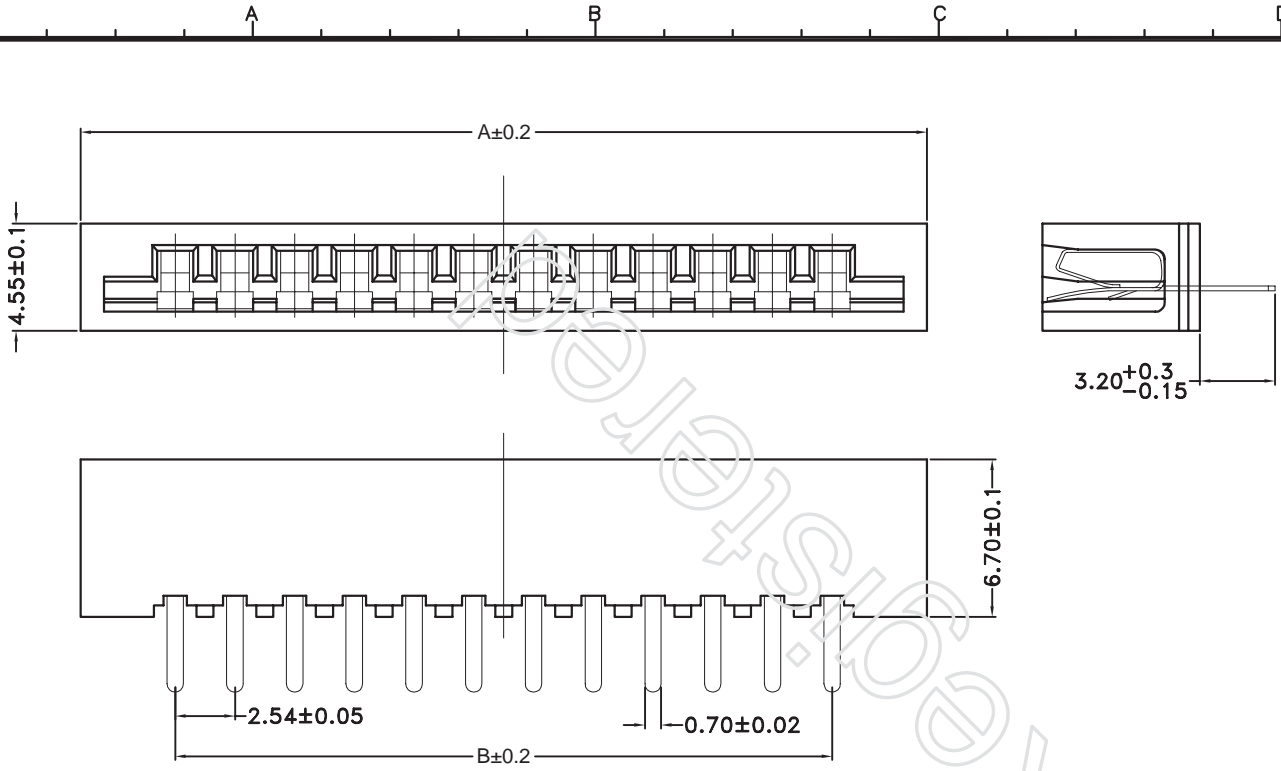
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3-3.环境特性测试/Environmental performance and others

ITEM		Test condition	Requirement	
3-3-1	Heat Resistance 耐热测试	85±3℃, 96hours (based upon JIS C5402 7.8) 时间 96 小时, 温度 85±3℃	Appearance	No Damage
			Contact Resistance	60mΩ MAX
3-3-2	Cold Resistance 低温测试	-25±3℃, 96hours (based upon JIS C5402 7.9) 时间 96 小时, 温度 -25±3℃	Appearance	No Damage
			Contact Resistance	60mΩ MAX
3-3-3	Humidity 恒温恒湿测试	Temperature:40±2℃, Relative humidity:90~95% (RH) (Based upon MIL-STD-202 Method 103B conditions. B) 温度 40±2℃, 湿度 90~95%, 时间 96 小时。	Appearance	No Damage
			Contact Resistance	60mΩ MAX
			Dielectric strength	没有损坏/没有电弧产生
3-3-4	Temperature cycling 温度冲击测试	5 cycles: 1>.-25℃ 30 minutes. 2>.+85℃ 30 minutes. 3>.+25℃ 30 minutes. 4>.+65℃ 30 minutes	Appearance	No Damage
			Contact Resistance	40mΩ MAX
3-3-5	Salt spray 盐水测试	12 hours exposure to a salt spray from the 5±1% solution at 35±2℃. (Based upon JIS C5402/MIL-STD-202method 101B conditions. B) 时间 12 小时, 盐水体比例 5±1%, 温度 35±2℃。	Appearance	No Damage
			Contact Resistance	40mΩ MAX
3-3-6	Solderability 沾锡性测试	Soldering time:3±0.5sec, solder temperature:230±5℃ 时间: 3±0.5 秒, 温度 230±5℃	95%以上沾锡面积	
3-3-7	Resistance to soldering heat 焊热性测试	Soldering time:5±1sec, solder temperature:250±5℃ 时间: 5±1 秒, 温度: 250±5℃	No Damage 外观没有破坏	

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



- 技术参数 SPECIFICATIONS
- ◆ 极数: 8 Poles: 8
 - ◆ 适用线规: AWG#32~#28
Applicable wire: AWG#32~#28
 - ◆ 额定电压: AC,DC,125V(50HZ有效值)
Voltage rating: AC,DC,125V(200HZ)
 - ◆ 额定电流: 1.0A,AC,DC
Current rating: 1.0A,AC,DC
 - ◆ 耐压值: 500V AC/minute
Withstand voltage: 500V AC/minute
 - ◆ 工作温度: -25℃~+85℃
Working Temperature: -25℃~+85℃
 - ◆ 绝缘电阻: >1000 ohM
Insulation resistance: > 1000 ohM
 - ◆ 接触电阻: < 0.02 oh
Contact resistance: < 0.02 oh

- 材料 MATERIAL
- ◆ Terminal: Phosphor Bronze
 - ◆ Housing: Thermoplastic, UL94-0
- 包装方式 PACKAGE
- ◆ 管装 Pipe Package
 - ◆ 编带包装 Reel Package

	3PIN	4PIN	5PIN	6PIN	7PIN	8PIN	9PIN	10PIN	11PIN
A	13.28	15.82	18.36	20.9	23.44	25.98	28.52	31.06	33.6
B	5.08	7.62	10.16	12.7	15.24	17.78	20.32	22.86	25.4
	12PIN	13PIN	14PIN	15PIN	16PIN	17PIN	18PIN	19PIN	20PIN
A	36.14	38.68	41.22	43.76	46.3	48.84	51.38	53.29	56.46
B	27.94	30.48	33.02	35.56	38.1	40.64	43.18	45.72	48.26

Rev No.	ECN No.	Description	Drawn	Date



GENERAL TOLERANCE	
XX. ± 0.25	XXX. ± 0.40
X. ± 0.20	.XXX ± 0.05
.X ± 0.15	.X' ± 2'
.XX ± 0.08	.X' ± 1'

SCALE	6:1
UNIT	MM
SIZE	A4

DRAWN	姚彬昌	DATE	2008.02.26
CHECK		DATE	
APPROVE		DATE	

DWG. NO.	G:\DWG\Production\FPC PH=2.54mm 180°
PARTS NO.	FPC PH=2.54mm 180°

TITLE	塑胶检验图
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REV.	A
SHEET	1/1