

Model Type: 类型型号:

EARPHONE JACK

1. Scope/适用范围

This specification applies to earphone jack which is used in the electronic products. 本规格书适用于电子产品上的耳机插座连接器。

2. Rated / 额定值

2-1. Practical temperature range: -25° C to $+70^{\circ}$ C

适用温度范围: -25℃ to +70℃ Humidity range: 85% RH. MAX.

湿度范围: 85% RH. MAX.

2-2. Preservation temperature range: -10° C to $+40^{\circ}$ C

保存温度范围: -10℃ 至 +40℃ Humidity range: 85% RH. MAX.

湿度范围: 85% RH. MAX.

2-3. Rated voltage and current(MAX.): 30V DC, 0.5A 最大额定电压和额定电流: 30V DC, 0.5A

2-4. Appearance: No scratches、soil、rust or discoloration on the surface. 外观:表面无划伤、脏污、生锈或变色等现象。

3. Construction / 说明

3-1. Outline And Dimension / 外观和尺寸

The appearance and dimensions of the socket should match the attachment drawing. 插座的外观和尺寸应与附件图纸相符。

3-2. Part And Material 部件和材料

Parts and materials should be consistent with the material list specifications. 部件和材料应与材料清单规格一致。

4. Electrical efficiency / 电气特性

Item	Property	Test condition	Performance
项目	特性	测试条件	判定
4-1	Withstand Voltage 耐电压	Withstand AC 500V (50/60Hz RMS) between two non-contact terminals for 1 minute 在两个不接触的端子之间,能承受交流500V	No dielectric breakd own shall occur. 无击穿现象发生
		(50/60Hz RMS)并持续1分钟。	
4-2	Insulation Resistance 绝缘阻抗	Apply 500V DC between any contactless terminal and the other terminal, with an insulation gauge and last for 1 minute ± 5 seconds. 在任何一个不接触的端子与另一个端子之间施加500V直流电,用绝缘测量仪,并能持续1分钟±5秒。	100 MΩ Min. 最小100 兆欧

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Item 项目	Property 特性	Test condition 测试条件	Performance 判定
火口	加江		, ,, =
		Take a pair of matched terminals and	30 m Ω MAX.
		measure the tail end of each terminal	最大30毫欧
	Contact	(voltage maximum 20mV, current maximum	
4-3	Resistance 接触阻抗	100mA)	
		取一对匹配好的端子,测量各端子的尾端点	
		(电压最大 20mV, 电流最大 100mA)。	

5. Mechanical Performance 机械特性

Item	Property	Test condition	Performance
项目	特性	测试条件	判定
	Insertion and Plug and unplug with a matching plug at		Insertion and
	Extraction Force	a frequency of 20-30 times per minute.	extraction force is
5-1			0.3∼ 3kgf
0 1	插入力&拔出力	用相匹配的插头以每分钟 20-30 次的频率均	插入和拔出力的值为
		速插头进行插拔。	$0.3 \sim 3 \text{kgf}.$
		Every terminal should be capable of	There is no looseness,
	Terminal	withstand a force of 0.5 kgf for 10	damage, etc., but the
	Strength	seconds.	terminal deformation
5-2			is acceptable.
	端子强度	每个端子都应能承受 0.5 kgf 的力,	无松脱、破损等现象,
		并持续 10 秒。	但是端子变形可以接
			受。

6. Durability / 耐久性能

Item	Property	Test condition	Performance
项目	特性	测试条件	判定
			No obvious change in
	Life test	Under the condition of no load, plug and	appearance,
		unplug with a matching plug for 5000 times	destruction.
	寿命试验	in total, at a frequency of 20-30 times	Contact resistance:
		per minute.	less than 30 m Ω .
6-1			The insertion and
0-1		在没有负载的条件下,以每分钟20-30次的频	extraction force
		率,均速,用相匹配的插头进行插拔5000次.	values: 0.3 to 3 kgf.
			外观无明显改变,破坏.
			接触电阻:小于30毫欧.
			插入和拔出力的值为
			$0.3 \sim 3 \mathrm{kgf}$.

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7. Solderability / 焊锡试验

Item	Property	Performance	
项目	特性	测试条件	判定
7-1	Resistance to soldering heat 耐焊性	Insert the terminal into the solder according to the following conditions: 1. Terminal for a PC board (thickness 1.0-1.6mm) Pre-heat:100~110°C, 30S Temperature of solder:260±5°C,10±1S The specimen shall be stored under the standard atmospheric condition for 24H. 2. Soldering iron Temperature of solder: 350±10°C(60W) 3±1S 按下面的条件,将端子浸入焊料里: 1. 回流焊(厚度1.0~1.6mm) 预热: 100~110°C, 30S 焊锡温度: 260±5°C, 5±1S在标准大气压下,样品被放置24时。 2. 烙铁焊 焊锡温度: 350±10°C(60W) 3±1S	Meet the electrical characteristics. No obvious deformation. in appearance. 满足电气性能. 外观没有明显的变形.
7-2	Solderability 可焊性	Temperature of solder: 245±3°C. Time of dip: 3±0.5 seconds. 焊锡温度: 245±3°C. 浸入时间: 3±0.5 秒	Coating of solder area should be more than 95% 焊锡面积要求达到95% 以上

8. Environment test / 环境试验

Item	Property	Test condition	Performance
项目	特性	测试条件	判定
		Place the housing for 96 hours at a low temperature of -25 ± 3 ° C.	No obvious change in
	Cold test	Then, place it under standard atmospheric	判定 No obvious change in appearance Contactresistance: 100mΩmax。 Insulation resistance: 100 MΩ min。 Withstand voltage: AC 500V。 外观没有明显的改变。 接触电阻: 100mΩmax。 绝缘阻抗:100 MΩ min。
8-1	低温测试	conditions for 1 hour and test.	
	IKA IIII IXI IZA	在-25±3℃低温条件下将基座放置96小时,	
		再在标准大气条件下放置1小时,然后再	
		测试。	100 MΩ min _o
		The housing should be stored at a	Withstand voltage:
		temperature of $85\pm2^{\circ}$ C for 96 hours.	AC 500V。
	TT 4 4 4	Then it should be subjected to standard	外观没有明显的改变。
8-2	Heat test 高温测试	atmospheric conditions for 1 hour and	接触电阻: 100mΩmax。
		test	绝缘阻抗:100ΜΩ min。
		在85±℃高温条件下将基座放置96小时,再	耐电压: AC 500V。
		在标准大气条件下放置1小时,然后再测试。	

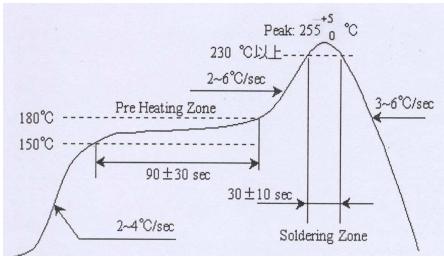
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Item 项目	Property 特性	Test condition 测试条件	Performance 判定
8-3	刊出 Humidity test 耐湿试验	The housing should be stored at a temperature of 40 ± 3 °C with relative humidity of 90% ~ 95% for 96 h. Then it should be subjected to standard atmospheric conditions for 1 hour and test 在温度为40 ±3°C,相对湿度为90%~95%条件下,将基座放置96小时,再在标准大气条件下放置1小时,然后再测试。	No obvious change in appearance Contact resistance: $100 \text{m}\Omega$ max。 Insulation resistance: $100 \text{ M}\Omega$ min。Withstand voltage: AC 500V。 外观没有明显的改变。 接触电阻: 小于 100毫 欧。
8-4	Temperature Cycling 温度循环	Place the Jack under the conditions shown below and then place it in the stand at room temperature for 30 minutes. 将插座放置于如下所示条件下进行试验,然后在室温条件下放置 30 分钟。 (TEMPERATURE) 温度 +70° C -25° C -25° C -4h 6h 8h 时间	耐电压: AC 500V。

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	Item	Prop	erty	Test condition	Performance
	项目	特	性	测试条件	判定
				Temperature: 35 ± 2℃	No obvious rust in the
				Solution: 5 \pm 1%	appearance.
				Spray time: 24hours	
	8-6	-	ay test	Wash and dry it at room temperature after	外观没有明显的生锈现
		盐雾测试	7	the experiment.	象。
				温度35±2℃ 盐水浓度 5±1% 盐雾时间24	
				小时。实验后常温水洗,室温干燥。	

9. Recommended IR Reflow Temperature Profile (Lead-Free), only last for 5 seconds at 260°C; 推荐红外回流焊温度曲线(无铅);最高温度 260°C,5秒 MAX;



10. Test condition / 测试条件

Unless otherwise specified, the test and measurement temperature is between 15 $^{\circ}$ C and 35 $^{\circ}$ C, the relative humidity is between 25% and 85%, and the atmospheric pressure is between 86 kPa and 106 kPa.

However, when any doubts arise on the judgment value under the above condition, the test and measurement are carried out at 20 ± 1 °C, the relative humidity is 63% to 67%, and the air pressure is performed at 86 kPa to 106 kPa.

除非另有指定,否则测试和测量温度在 15° C² $^{\circ}$ C,相对湿度在 25% 85%,气压在 86 kPa $^{\circ}$ 106 kPa 条件下进行。

当在这个条件下判定出现疑问时,测试和测量在 $20\pm1^{\circ}$ C,相对湿度 63%67%,气压在 $86\text{kPa}^{1}06\text{kPa}$ 条件下进行。

11. Amendment / 变更修正

When it is necessary to amend the specifications, it should be negotiated and agreed by the manufacturer and the customer before proceeding.

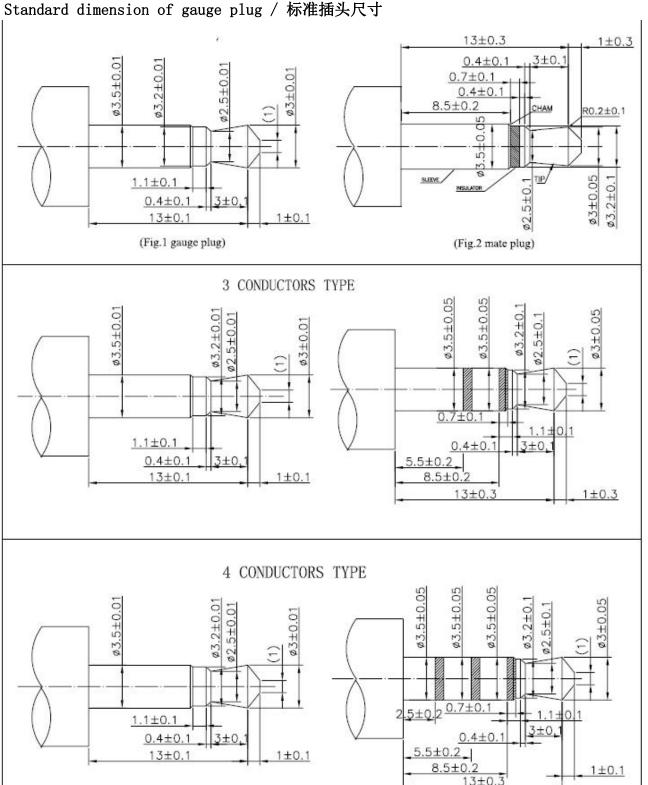
当有必要对规格书进行变更修正时,应该在制造商和客户共同商议及同意后才可以进行。



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11. Standard dimension of gauge plug / 标准插头尺寸



* Specifications are recorded in both English and Chinese, but Chinese is preferred in the case of doubts.

规格书同时记入中英文,但发生疑义的场合以中文优先。