

龍豐實業有限公司
Dragon City Industries Limited

技術特性規格書

Specifications

PT 系列

PT-Series

Product Name: Speaker Terminal

**Model : PT-206-03, PT-207-03, PT-403-03,
PT-407-01, PT-410-05, PT-414-01,
PT-419-01, PT-603-03, PT-803-01**

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1. Scope 使用范围

The specs is suitable for WP Push Terminal. This product can be used for signal input/output as connecting components of audiovisual players and speakers.

本技术特性规格书, 适用于 WP 型一按钮式外接线插座。产品适用于功放、音箱的音频信号输出、输入, 作连接使用。

2. Shape and dimensions 外观尺寸

The shape and dimensions are based on drawings.外型及尺寸均以图纸为准。

3. Materials 材料

Based on the specified materials and coating treatment of drawings.
 均以图纸指定的材料和表面处理为准。

4. Suitable environment 使用环境

(1) Temperature: -40~55°C 温度: -40°C~55°C

(2) Relative humidity: 75%RH at temperature of 40°C 相对湿度: 75% 温度 40°C

(3) PH value: PH6~8 PH 值: PH6~8

5. Electric performance 电气性能指标

No.	Items 项目	Technical conditions 技术条件	Technical requirements 技术要求	Memo
5.1	Rated load 额定负荷	DC 60V	≤5A	
5.2	Withstanding Volt. Dielectric strength 耐压(抗电强度)	DC 500V (50Hz) 1 minute. 每分钟 DC500V (50Hz)	No damage or over arc.无击穿 无飞弧	
5.3	Contact resistance 接触电阻		≤30mΩ	
5.4	Insulation resistance 绝缘电阻	DC500V	>100MΩ	
5.5	Contact resistance 接触电阻	Variance range: When wire is connected to switch bar and being shaken, measure the resistance variance. 变动范围: 在外接线接入按钮状态下, 振动时, 测电阻的变动。	<10mΩ	

6.Mechanical Performance

No.	Items	Technical conditions	Technical requirements	Memo
6.1	Terminal strength 端子强度	Apply 30N in the X, Y and Z directions. 在端子上沿 X、Y、Z 三方向加 30N 的力。	The terminal has no deformation, broken, damage and loose. 端子无变形、无断裂、无破损、无松动。	
6.2	Lead tensile ability 引线抗张力	Soldered leads (fully dip or semi-dip) are pulled horizontally. 引线浸锡后(全浸、半浸)沿水平方向匀速拉时, 测定引线抗张力。	>10N	
6.3	Switching knob Insertion & extraction 按钮动作力	After 3 times of pressing operations, measure it. 经三次按动(全部拧开)按钮后, 测定合并(关上)时的动作力。	<20N	
6.4	Switching knob robustness 按钮强度	Apply 10N in the X, Y and Z directions. 在按钮上沿 X、Y、Z 三方向加 10KGS 重物。	No deformation and damage. 无变形、无破损。	
6.5	Life test 机械寿命	Without load, press buttons 1000 times, 10~30 times/min. 在无电负荷情况下, 以每分钟 10~30 次的速度, 按动按钮(开关) 1000 次。	Appearance is normal. contact resistance : ≤40mΩ 外观正常 接触电阻:	

7.Soldering performance

No.	Items	Technical conditions	Technical requirements	Memo
7.1	Solder-ability 可焊性试验	Place the terminal in the solder bath of 235±5°C for 3±0.5 seconds. 端子放入 235±5°C 的焊槽中, 浸 3±0.5 秒取出。	Over 95% solderable part of the terminal is covered with uniform and smooth solder. 端子 95% 浸锡饱和, 无气孔, 平滑。	Solder:H63A Flux:SZFFKE322V 焊料: H63A 助焊剂: SZFFK322V
7.2	Heat resistance 焊接耐热试验	Temp:250±5°C Time:5±0.5 Second 温度: 250±5°C 时间: 5±0.5 秒	Electric performance is normal, without deformation And loose. 电气性能正常, 无变形, 无松动。	

8. Environmental Performance 环境性能指标

No.	Items	Technical conditions	Technical requirements
8.1	Low pressure 低气压	Under 46Kpa, the socket should meet: 300V(50Hz) 1min. 插座在 46Kpa 条件下, 抗电强度应符合要求: 每分钟 300V(50Hz)	No damage or over arc. 无损伤, 无飞弧.
	Low temperature 低温	Keep 2h at -40°C. 插座在 -40°C 条件下持续 2 小时。	Appearance is normal. 外观: 无损伤
	High temperature 高温	After keeping 2h at 70°C, measure the insulation at once. Inspect the appearance 1h recovery. 插座在 +70°C 高温条件下持续 2 小时后, 立即测量绝缘电阻, 恢复 1 小时后检查外观。	Insulation resistance $\geq 100M\Omega$ Appearance is normal. 绝缘电阻: $\geq 100M\Omega$ (DC500V) 外观: 无损伤
8.4	Temperature cycle 温度循环	Low temperature: -40°C 30min. High temp.: 70°C 30min. Switching time: 2~3 minutes. 5 times of cycles test Measure appearance 1h recovery. 低温: -40°C 30 分钟 高温: 70°C 30 分钟 转换时间: 2-3 分钟 5 次循环, 恢复 1 小时后检查外观	Appearance is normal. 外观: 无损伤
8.5	Constant temperature and humidity test 恒定湿热	Temperature: 40°C $\pm 2^\circ\text{C}$ Relative humidity: 90%~95% After keeping 2days at 70°C, measure the insulation at once. Inspect the appearance 1h recovery 温度: 40°C $\pm 2^\circ\text{C}$ 相对湿度: 90%~95% 70°C 时持续 2 天, 立即测试绝缘电阻、抗电强度, 恢复 1 小时后检查外观。	Dielectric strength: 500V (50Hz) Leakage current: $\leq 1\text{mA}(1\text{min.})$ Appearance is normal. 抗电强: 500V (50Hz) 漏电流: $\leq 1\text{mA}(1\text{分钟})$ 外观: 无击穿, 无飞弧。
8.6	Vibration 振动	Frequency: 10~55Hz Amplitude: 0.35mm 3 directions, each 10 times of scan frequency tests. 频率: 10~55Hz 振幅: 0.35mm, 三个方向, 每个方向 10 次扫频循环。	Contact resistance: Unsteady time: $\leq 10\mu\text{s}$ Appearance: normal 接触电阻: 非稳定时期 $\leq 10\mu\text{s}$ 外观: 无损伤
8.7	Collision 碰撞	Socket should bear 1000times of collision tests at 40-80 times/min of 10g acceleration. 插应经受: 40-80 次/分, 加速度为 10g 的 1000 次碰撞试验。	Contact resistance: $\leq 20m\Omega$ 接触电阻: $\leq 20m\Omega$