Pizeo-Buzzer

TDPB-1240PE

- TDPB series are low cost pizeo transducer without built-in oscillation circuit.

- Optional Rated Voltage range: 01, 05 and 09 and 12 V respectively.

- SMD type on T&R are available upon request.

1. Electrical Characteristics 电性能

<i>Type</i> 型号		TDPB-1240PE
Resonant Frequency 谐振频率	(KHz)	<i>4.0±0.5</i>
Operating Voltage 工作电压(max)	(Vр-р)	30
Sound Pressure Level 输出音压	(dB)	Min80/10cm/5.0Vp-p
Current Consumption 工作电流 (ma	x)(mA)	2.0
Capacitance 电容	(pF)	17000 <i>±</i> 30%
Operating Temperature 工作温度	(°C)	-20 - +70
Storage Temperature 贮存温度	(°C)	-20 - +80
<i>material</i> 材质		PBT

2.Dimensions:Unit(mm) 尺寸:单位







可靠性试验 RELIABILITY TEST

试验项目 ITEM	测试方法 METHOD OF TEST	标准 STANDARD
高温试验 Dry Heat Test	+70℃±2℃, 96h, 恢复 2 小时后测量 After being placed in a chamber with +70±2℃ for 96 hours and then being placed in natural condition for 2 hours, sounder shall be measured.	试验后所有指标都满足 All specification must be satisfied after the test.
低温试验 Cold Test	-20℃±2℃, 96h, 恢复 2 小时后测量 After being placed in a chamber with -20±2℃ for 96 hours and then being placed in natural condition for 2 hours, sounder shall be measured.	试验后所有指标都满足 All specification must be satisfied after the test.
恒定湿热试验 <i>Humidity Test</i>	将产品置于+40℃±2℃,相对湿度保持在 90%-95%中的环境中放置 96h,恢复 2 小时后测量. (见图 FIG.1) After being placed in a chamber with, 90%-95%R.H. at +40 ℃±2 ℃ for 96 hours and then being placed in natural condition for 2 hours, sounder shall be measured. (Attached FIG.1)	试验后所有指标都满足 All specification must be satisfied after the test.
温度变化试验 Temperature Cycle Test	产品在-20℃的试验箱和温度为+70℃的试验箱各放置 30 分钟,为一次温度循环。产品承受 5 次温度循环后,放置 2h 后进行测量(见图 FIG.2) After being placed in a chamber at -20℃ \pm 2℃ for 30 minutes, sounder shall be placed at room temperature(+20 ℃). After 15 minutes at this temperature, sounder shall be placed in a chamber at +70 ℃ \pm 2 ℃. After 30 minutes at this temperature, sounder shall be returned to room temperature(+20 ℃) for 15 minutes. After 5 above cycles, sounder shall be measured after being placed in natural condition for 2 hours. (Attached FIG.2)	试验后所有指标都满足 All specification must be satisfied after the test
振动试验 Vibration Test	频率 10-55-10(Hz), 单振幅: 1.5 (mm) 扫频时间 1min, 振动时间 30min(见图 FIG.3) Sounder shall be measured after being applied vibration of amplitude of 1.5mm with 10-55Hz band of vibration frequency for 30 minutes. Sweep time is 1 minute. (Attached FIG.3)	试验后所有指标都满足. All specification must be satisfied after the test.
碰撞试验 Shock Test	X,Y,Z 三个方向分别承受 100G 的冲力, 每向各冲击 3 次 Sounder shall be measured after being applied shock (100G) for each three mutually perpendicular directions to each of 3 times.	试验后所有指标都满足 All specification must be satisfied after the test.
插针的抗拉强度试 验 <i>Terminal</i> <i>Strength Pulling</i> <i>Test</i>	插针承受 5 牛顿拉力,负荷时间 5s,然后进行检查,不出 现焊点脱落断裂现象 The force 5 seconds of 5N is applied to each terminal. No visible damage and cutting off.	试验后所有指标都满足. All specification must be satisfied after the test.
可焊性试验 Solder ability Test	焊锡温度 235℃±5℃,浸润时间为 3±0.5s,试验后采用 目测的方法检查浸润,表面焊锡的浸润情况 Lead terminals are immersed in rosin for 5 seconds and then immersed in solder bath of +235±5℃ for 3±0.5 seconds.	试验后所有指标都满足. All specification must be satisfied after the test.



