A. SCOPE

This specification applies SMD piezo buzzer, Passive drive type, L-KLS3-SMT-14*04J

B. SPECIFICATION

No.	ltem	Unit	Specification	Condition
1	Oscillation Frequency	Hz	4000	Square Wave
2	Operating Voltage	Vр-р	1~25	
3	Rated Voltage	Vр-р	5	
4	Current Consumption	mA	MAX. 5	at Rated Voltage
5	Sound Pressure Level	dB	MIN. 80	at 10cm at Rated Voltage
6	Electrostatic Capacity	pF	15000±30%	at 100Hz 1V
7	Operating Temperature	$^{\circ}\!$	-40~ +85	
8	Storage Temperature	°C	-40 ~ +95	
9	Dimension	mm	14.1 x 14.1 x H4.1	See appearance drawing
10	Weight (MAX)	gram	1.2	
11	Housing Material		LCP(Black)	
12	Leading Pin		Plated Brass(Au)	See appearance drawing
13	Environmental Protection Regulation		RoHS	

C. APPEARANCE DRAWING





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D.TESTING METHOD

Standard Measurement conditions

Temperature:25±2°C Humidity:45-65%

Acoustic Characteristics:

The oscillation frequency, current consumption and sound pressure are measured by the measuring instruments shown below



F. Soldering Condition

(1)Recommendable reflow soldering condition is as follows

(Reflow soldering is twice)

Note: It is requested that reflow soldering should be executed

after heat of product goes down to normal.



Heat resistant line

(Used when heat resistant reliability test is performed)

(2)Manual soldering

Manual soldering temperature 350 °C within 5 sec.



G. RELIABILITY TEST					
NO.	ITEM	TEST CONDITION AND REQUIREMENT			
1	High Temperature Test	At + 85°C input 9 Vp-p for 240 hours.			
-		Allowable variation of SPL after test: ±10dB.			
2	Low Temperature Test	At -25°C input 9 Vp-p for 240 hours. Allowable variation of SPL after text: +10dB			
	High Temperature Test (Storage) Low Temperature Test (Storage)	After being placed in a chamber with +85°C for 240 hours and then			
3		being placed in normal condition for 2 hours.			
		Allowable variation of SPL after test: ±10dB.			
4		After being Placed in a chamber with -40°C for 240 hours and then			
4		Allowable variation of SPL after test: ±10dB.			
	Temperature &Humidity Cycle Test	The receiver shall be cycle 5 times through as follows:			
		a: 90-100% R.H			
		b: 90-95% R.H			
		+55°C			
5					
5		$\begin{vmatrix} +230 \\ +230 \end{vmatrix}$			
		hrs 12.5 ± 0.5			
		5 cycles			
		Allowable variation of SPL after test: ±10dB.			
	Thermal Shock Test	The part shall be subjected to 1000 cycles. One cycle shall be consist of :			
		+85°C			
6		1000 cycles			
6		-40°C			
		30min 30min			
		Allowable variation of SPL after test +10dB			
	Vibration Test	with $10 \sim 200 \sim 10$ Hz sin-wave sweep 15min 49m/sec ² (constant) X YZ 3			
7		direction 2 hours each total 6 hours			
		Allowable variation of SPL after test: ±10dB.			
	Fixed Drop Test	Fix on jig then drop from 152cm heigh to the concrete floor X.Y.Z 6 direction 5			
8		times each total 30 times.			
Ũ		Allowable variation of SPL after test: ±10dB.			
	Room Temperature Test	At Room temp input 9 Vp-p for 240 hours			
9		Allowable variation of SPL after test: ±10dB.			
10	DC Voltage Test	DC 2.53V for 1 hour.			
11	Solderability	Pretreatment : 40 °C 90-95% R.H 240 hours.			
	lest	Soldering into solderbath:solder Temp. $+235\pm5$ °C for 2 ± 0.5 seconds.			
TEST CO	ONDITION.	·			
Standard Test Condition : a) Temperature : +5 ~ +35 °C b) Humidity : 45-85% c) Pressure : 860-1060mbar					
_	一般测试条件 : a	a) 温度:+5~+35℃ b) 湿度:45-85% c) 气压:860-1060mbar			
Judgmen	nt Test Condition : a	a) Temperature : +25 \pm 2°C b) Humidity : 60-70% c) Pressure : 860-1060mbar			
争议时测试条件 : a) 温度 : +25 ± 2℃ b) 湿度 : 60-70% c) 气压 : 860-1060mbar					

