# Piezo Electric Buzzer PK-12N40PEDRQ

(RoHS)

DATE:2014.09.18

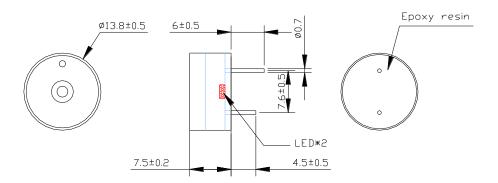
#### 1. Electrical Characteristics

VER .:3

Oscillation Frequency (KHz)	4.1 ±0.5	
Operating Voltage (Vdc)	3.5~15	
Rated Voltage (Vdc)	12	
Current Consumption (mA/max.)	12at Rated Voltage	
Sound Pressure Level (dB/min.)	83 at 10cm at Rated Voltage	
Tone/Pulse Rate	Constant	
LED Colour	Red	
Operating Temperature (°C)	<b>-20</b> ∼ <b>+100</b>	
Storage Temperature (°C)	-30 ~ +110	
Condition by wave (°C)	260±5°C / within 5sec	
Condition by hand (°C)	350±20°C / within 5sec	

## 2. Dimensions and Material

# 2-1Shape



Unit: mm

#### 22 Material

Housing	PBT (Color : Hyaline)
Leading Pin	Tin Plated Brass
Weight (Gram)	1.0

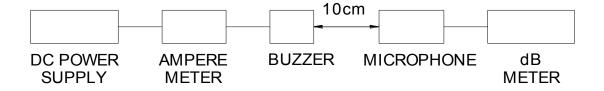
#### **3 TESTING METHOD**

## . Standard Measurement conditions

Temperature:25 *±* °C Humidity:45-60%

#### . Acoustic Characteristics

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



#### 4.RELIABILITY

ITEMS	METHOD OF TEST AND MEASUREMENTS	PERFORMANCE	
Coldness	After 98 hours of being exposed to -30 $^{\circ}$ C	No abnormality	
withstanding	environment, should be returned to normal	shall exist	
	environment for 2 hours, then re-proceed to test.		
Hotness	After 98 hours of being exposed to +110 $^{\circ}$ C	No abnormality	
withstanding	environment, should be returned to normal	shall exist	
	environment for 2 hours, then re-proceed to test.		
Humidity	After 98 hours of being exposed to 40 $^{\circ}$ 95%RH	No abnormality	
withstanding	environment in actual operation, should be	shall exist	
	returned to normal environment for 2 hours, then		
	re-proceed to test.		
Durability	Testing after 1,000 hours actual continuous	No abnormality	
	operation.(at standard measurement conditions)	shall exist	
Drop	A natural drop from 75cm high down to the	No abnormality	
withstanding	ground.	shall exist	
Vibration	Vibration of 2,000 cycles per minute, 2mm	No abnormality	
withstanding	amplitude, applied in X, Y and Z directions for 30	shall exist	
	minutes each.		

#### **5 PACKAGE METHOD**

< 1 > 1600pcs per box , total 4 boxes per carton , total 6400pcs per carton; Volume: L\*W\*H=520\*335\*290mm

<2> N . W . : 3.2KGS ; G . W . : 5.2KGS

< 3 > RoHS Mark