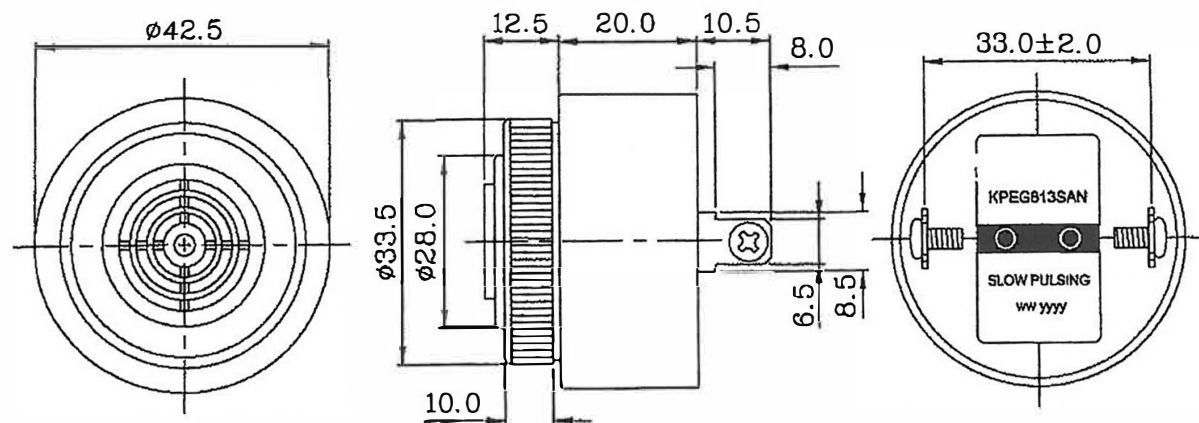


SCOPE This specification applies to Panel Mt Piezo, **KPEG813SAN**

SPECIFICATIONS:

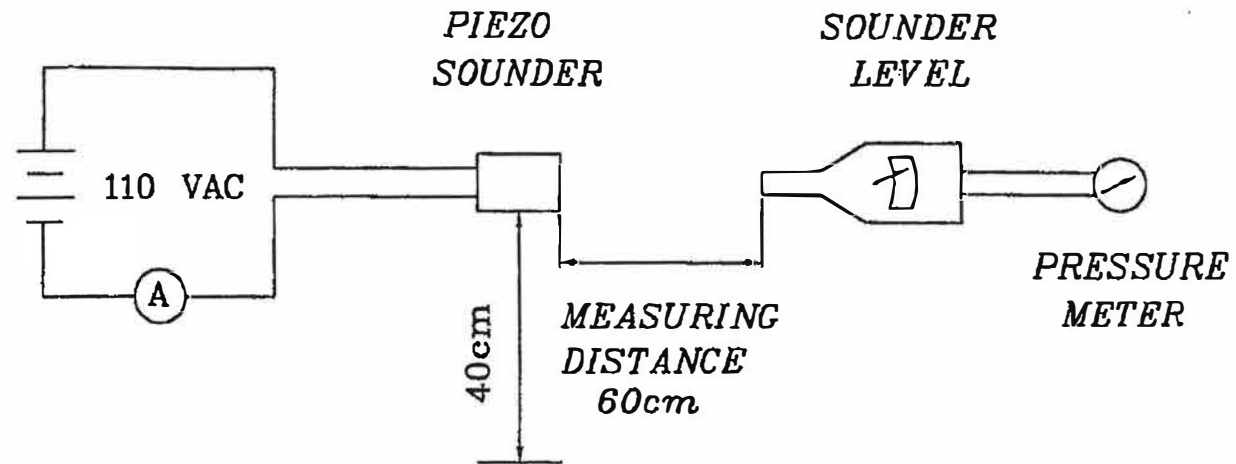
No.	Item	Unit	Specification	Condition
1	Resonant frequency	KHz	2.8 +/- .05	
2	Operating voltage	AC / DC	30 ~ 120	
3	Current consumption	mA	Max 6 / Max 25	@ 30 VAC/DC / a@ 120 VAC/DC
4	Sound pressure level	dB	Min 68 Min 80 Min 76	@60cm, 30 VAC/DC / at60cm,D9 120 VAC/DC @60cm, 110VDC
5	Rated Voltage	VDC	110	
6	Tone		Slow Pulse (1.0 Hz)	
7	Operating Temp	C	-30 ~ +85	
8	Storage Temp	C	-40 ~ +85	
9	Dimensions	mm	42.5 x H32.5	See appearance drawing
10	Weight	g	42.0	
11	Material		Nylon UL-94 V-0 BLK	
12	Terminal		Tin plated Screw Plating Sn	See appearance drawing
13	Environmental		RoHS	

APPEARANCE DRAWING,



Tol : ±0.5
Unit: mm

MEASURING METHOD:



MECHANICAL CHARACTERISTICS

No.	Item	Test Conditions	Evaluation Standards
1	Solderability	Lead terminals are immersed in rosin for 5 seconds and then immersed in solder bath of $+270 \pm 5$ C for 3 ± 0.5 Seconds	90% min lead terminals shall be wet with solder (Except the edge of the terminal)
2	Soldering Heat Resistance	Lead terminals are immersed up to 1.5mm from sounders body in solder bath of $+300 \pm 0.5$ C for 3 sec or 250 C for 10 sec.	No interference in operation
3	Terminal Mechanical Strength	The force 10 seconds of 9.8N (1.0kg) is applied to each terminal in axial direction	No damage and cutting off
4	Vibration	Buzzer shall be measured after being applied vibration of amplitude of 1.5mm with 10 to 55 Hz of band vibration frequency to each of 3 perpendicular directions for 2 hrs	The value of oscillation frequency/ current consumption should be in 10% compared with initial ones. The SPL should be in ± 10 dBA compared with the initial one.
5	Drop Test	The part only shall be dropped from a height of 80cm on to a 40mm thick wooden board 6 times in 3 axes (X.Y.Z) (a total of 6 times)	

ENVIRONMENT TEST

No	Item	Test Condition	Evaluation Standard
1	High Temp Test	After reflow placed in a chamber at +85 C for 240 hours	Being placed for 4 hours at 25C. Buzzer shall be measured. The value of oscillation frequency/current consumption should be within 10% compared to the initial ones. The SPL should be within 10dB when compared to initial one.
2	Low Temp test	After reflow placed in a chamber at -40 C for 240 hours	
3	Humidity Test	After reflow placed in a chamber at +40C and 90 +/-5% RH for 240 hours	
4	Temp Cycle Test	<p>The part shall be subjected to 5 cycles. One cycle shall consist of</p> <p>The diagram illustrates a temperature cycle test profile. It starts at -40°C for 0.5hr, ramps up to +25°C in 0.5hr, holds at +25°C for 0.25hr, ramps up to +85°C in 0.5hr, holds at +85°C for 0.5hr, ramps down to +25°C in 0.5hr, and holds at +25°C for 0.25hr. The total duration of one cycle is 3 hours. This cycle is repeated 5 times.</p>	

TEST

CONDITION:

Standard Test: a) Temperature = 5C ~ +35C b) Humidity: 45-85% c) Pressure: 860-1060mbar

Judgment Condition a) Temperature +25 +/- 2C b) Humidity: 60-70% c) Pressure: 86-1060mbar

RELIABILITY TEST

No	Item	Test Condition	Evaluation Standard
1	Operating Test Life	<p>1. Continuous Life test. Part shall be subjected to 48 hours continuous at +70C with rated voltage applied.</p> <p>2. Intermittent Life test. A duty cycle of 1 minute on , 1 minute off , a minimum of 5000 times at room temp (+25+/-2 C) with rated voltage applied.</p>	Being placed for 4 hours at 25C. Buzzer shall be measured. The value of oscillation frequency/current consumption should be within 10% compared to the initial ones. The SPL should be within 10dB when compared to Initial one.

TEST CONDITION

Standard Test Condition: a) Temperature: +5 ~ +35 C b) Humidity: 45-85% c) Pressure: 860-1060mbar