



Datasheet

RS PRO Piezo Telephone Ringer

EN RS Stock: 181-2713



A. SCOPE

This specification applies piezo audio transducer, 1812649

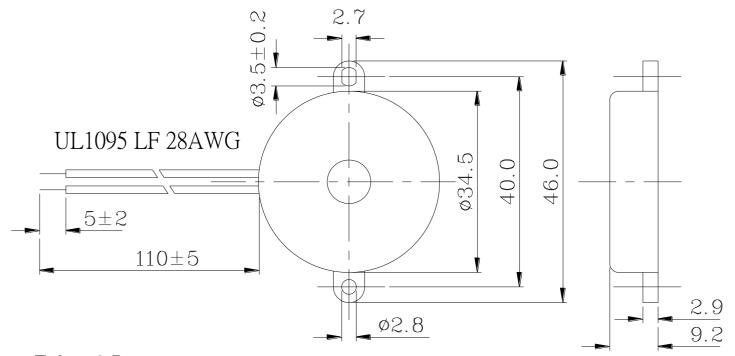
B. SPECIFICATION

No.	Item	Unit	Specification	Condition
1	Operating Volt.	Vp-p	MAX 30	
2	Current consumption	mA	MAX 11	at 10Vp-p,square wave,1.1KHz.
3	Sound pressure level	dB	MIN 81	at 10cm/10Vp-p,square wave,1.1KHz.
4	Electrostatic capacity	pF	43.,000 ± 30%	at 120Hz/1V
5	Operating temp.	$^{\circ}\!\mathbb{C}$	-30 ~ +85	
6	Storage temp.	$^{\circ}\!\mathbb{C}$	-40 ~ +95	
7	Dimension	mm	φ 34.5 x H 9.2	See appearance drawing
8	Weight (MAX)	gram	7.0	
9	Material		ABS UL-94 1/16" HB HIGH HEAT (BLACK)	
10	Terminal		Wire type	See appearance drawing
11	Environmental Protection Regulation		RoHS	



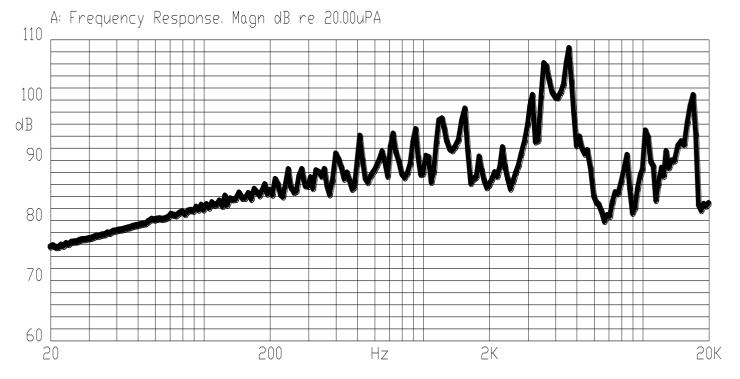


C. APPEARANCE DRAWING



Tol: ± 0.5 Unit: mm

D. TYPICAL FREQUENCY RESPONSE CURVE



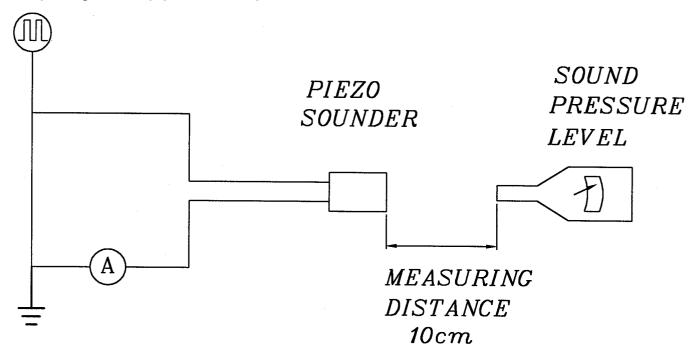




E. MEASURING METHOD

S.P.L. Measuring Circuit

Input Signal: 10Vp-p, 1.1kHz, Square Wave



Mic : RION S.P.L meter UC30 or equivalent

S.G: Hewlett Packard 33120A Function Generator or equivalent

F. MECHANICAL CHARACTERISTICS

No	Item	Test Condition	Evaluation standard	
1	Solderability (Connector excepted)	Suppled wires of lead wires are immersed in rosin for 5 seconds and then immersed in solder bath of $\pm 270 \pm 5^{\circ}$ for	90% min. stripped wires shall be wet with solder.(Except the edge of terminal)	
2	Lead Wire Pull Strength	The pull force shall be applied to double lead wire: Horizontal 3.0N(0.306kg) for 30 seconds. Vertical 2.0N(0.204kg) for 30 seconds.	No damage and cutting off.	
3	Vibration		frequency/ current consumption should be in± 10% compared with initial	
4	Drop test	a 40mm thick wooden board 3 times in 3 axes (X.Y.Z). (a		





G. ENVIRONMENT TEST

No.	Item	Test Condition	Evaluation standard
1	High temp. test	After being placed in a chamber at +95℃ for 240 hours	
2	Low temp. test	After being placed in a chamber at –40℃ for 240 hours	
3	Humidity test	After being placed in a chamber at +40 $^{\circ}\!$	
4	Temp. cycle test	+95°C +25°C +25°C	Being placed for 4 hours at +25°C, buzzer shall be measured. The value of oscillation frequency/ current consumption should be in ±10% compared with initial ones .The SPL should be in ±10dB compared with initial one.

H. RELIABILITY TEST

No.	Item	Test condition	Evaluation
1	Operating life test	 1.Continuous life test 48 hours continuous operation at +70°C with rated voltage applied. 2.Intermittent life test A duty cycle of 1 minute on, 1 minutes off, a minimum of 5000 times at room temp.(+25±2°C) and rated voltage applied 	Being placed for 4 hours at +25°C, buzzer shall be measured. The value of oscillation frequency/ current consumption should be in ±10% compared with initial ones .The SPL should be in ±10dB compared with initial one.

TEST CONDITION.

Standard Test Condition: a) Temperature : $+5 \sim +35^{\circ}$ C b) Humidity : 45-85% c) Pressure : 860-1060mbar Judgement Test Condition: a) Temperature : $+25 \pm 2^{\circ}$ C b) Humidity : 60-70% c) Pressure : 860-1060mbar



