

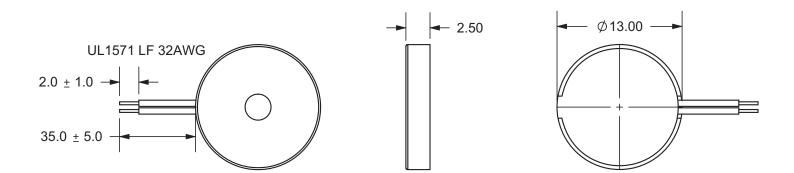
DESCRIPTION: piezo audio transducer

SPECIFICATONS

operating voltage	30 Vp-p max.	
current consumption	10 mA max.	at 10 Vp-p, sqaure wave, 4.8 Khz
sound pressure level	80 db min.	at 10 cm/10 Vp-p, sqaure wave, 4.8 Khz
electrostatic capacity	14,000 ± 30%	at 1 Khz/1 V
operating tempurature	-30 ~ +85° C	
storage tempurature	-40 ~ +95° C	
dimensions	Ø13.0 x H2.5 mm	
weight	.35 g max.	
material	ABS UL-94 1/16" HB high I	heat (black)
terminal	wire type	
RoHS	yes	

APPEARANCE DRAWING

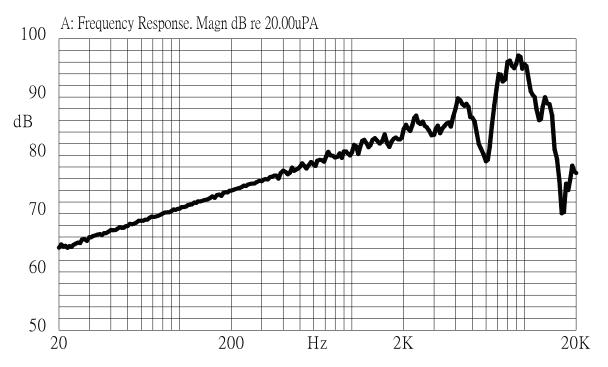
tolerance: ±0.5 units: mm



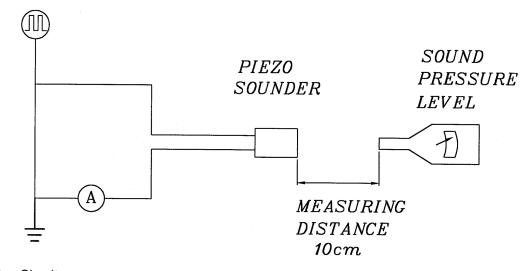


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FREQUENCY RESPONSE CURVE



MEASUREMENT METHOD



S.P.L. Measuring Circuit Input Signal: 10 Vp-p, 4.8 KHz, square wave Mic: RION S.P.L. meter UC30 or equivalent S.G.: Hewlett Packard 33120A function generator or equivalent



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MECHANICAL CHARACTERISTICS

item	test condition		evaluation standard	
solderability	Stripped wires are immersed in rosin for		90% min. of the lead terminals	
	5 seconds and then immersed in solder bath		will be wet with solder	
	of 230 ±5°C for 3 ±1 seconds.		(except the edge of the terminal).	
soldering heat resistance	Stripped wires are in	mmersed up to 1.5mm from		
	buzzer's body in solder bath of 300 ±5°C for		No interference in operation.	
	3 ±0.5 seconds or 2	$260 \pm 5^{\circ}C$ for 10 ± 1 seconds.		
lead wire pull strength	The pull force shall	be applied to lead wire:		
	Horizontal	3.0N for 30 seconds	No damage or cutting off.	
	Vertical	2.0N for 30 seconds		
vibration	The buzzer shall be	The buzzer shall be measured after applying		
	a vibration amplitude of 1.5 mm with 10 to		frequency/current consumption	
	55 Hz band of vibration frequency to each of		should be ±10% of the initial	
	the 3 perpendicular directions for 2 hours.		measurements. The SPL should	
drop test	The part will be dropped from a height of		be within ±10dB compared with	
	75 cm onto a 40 mm thick wooden board 3		the initial measurement.	
	times in 3 axes (X, Y, Z) for a total of 9 drops.			

ENVIRONMENT TEST

item	test condition	evaluation standard
high temp. test	After being placed in a chamber at +95°C for	
	240 hours.	
low temp. test	After being placed in a chamber at -40°C for	
	240 hours.	
humidity test	After being placed in a chamber at +40°C and	
	90±5% relative humidity for 240 hours.	
temp. cycle test	The part shall be subjected to 5 cycles. One	The buzzer will be measured after
	cycle will consist of:	being placed at +25°C for 4
		hours. The value of the
	+95°C	oscillation frequency/current
		consumption should be ±10%
	+25°C +25°C	compared to the initial
		measurements. The SPL should
	-40°C	be within ±10dB compared to the
		initial measurements.
	0.5hr 0.5hr 0.25 0.5hr 0.5hr 0.5hr 0.5hr 0.25	
	3hours	



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RELIABILITY TEST

item	test condition	evaluation standard
operating (life test)	1. Continuous life test:	The buzzer will be measured after
	The part will be subjected to 48 hours of	being placed at +25°C for 4
	continuous operation at +70°C with rated voltage applied.	hours. The value of the oscillation frequency/current
	2. Intermittent life test:	consumption should be ±10% compared to the initial
	A duty cycle of 1 minute on, 1 minutes off, a	measurements. The SPL should
	minimum of 5,000 times at room temp	be within ±10dB compared to
	$(+25 \pm 2^{\circ}C)$ with rated voltage applied.	the initial measurements.

TEST CONDITIONS

standard test condition	a) tempurature: +5 ~ +35°C	b) humidity: 45 - 85%	c) pressure: 860-1060 mbar
judgement test condition	a) tempurature: +25 ±2°C	b) humidity: 60 - 70%	c) pressure: 860-1060 mbar



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PACKAGING

