

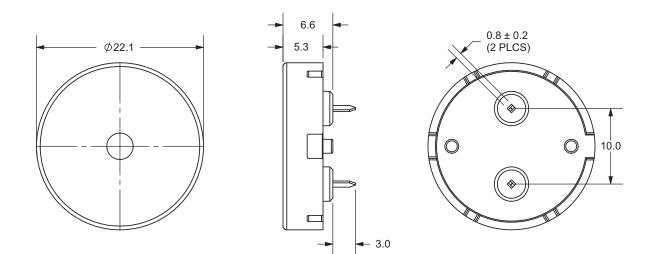
DESCRIPTION: piezo audio transducer

SPECIFICATONS

operating voltage	30 Vp-p max.	
current consumption	6 mA max.	at 10 Vp-p, sqaure wave, 4.0 Khz
sound pressure level	84 db min.	at 10 cm/10 Vp-p, sqaure wave, 4.0 Khz
electrostatic capacity	12,000 ± 30%	at 1 Khz/1 V
operating tempurature	-30 ~ +85° C	
storage tempurature	-40 ~ +95° C	
dimensions	Ø22.1 x H6.6 mm	
weight	2.5 g max.	
material	ABS UL-94 1/16" HB high heat (black)	
terminal	pin type (Au plating)	
RoHS	yes	

APPEARANCE DRAWING

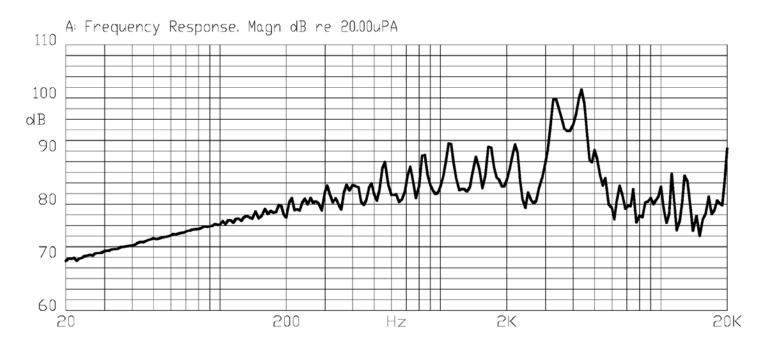
tolerance: ±0.5 units: mm



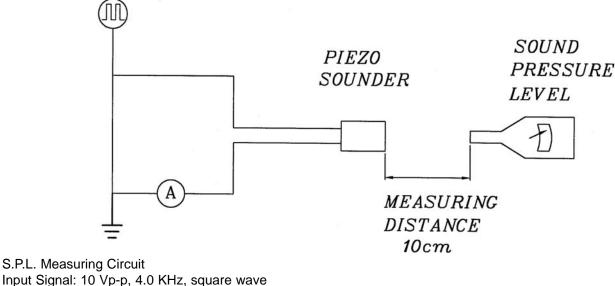


DESCRIPTION: piezo audio transducer

FREQUENCY RESPONSE CURVE



MEASUREMENT METHOD



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

S.G.: Hewlett Packard 33120A function generator or equivalent



DESCRIPTION: piezo audio transducer

MECHANICAL CHARACTERISTICS

item	test condition	evaluation standard
solderability	Lead terminals 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 270 ±5°C for 3 ±1 seconds.	(except the edge of the terminal).
soldering heat resistance	Lead terminals are immersed 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 260 $\pm 5^{\circ}$ C for 10 ± 1 seconds.	
terminal mechanical strength	For 10 seconds, the force of 9.8N (1.0kg) is	No damage or cutting off.
C C	applied to each terminal in axial direction.	
vibration	The buzzer shall be measured after applying	
	a vibration amplitude of 1.5 mm with 10 to	The value of oscillation
	55 Hz band of vibration frequency to each of	frequency/current consumption
	the 3 perpendicular directions for 2 hours.	should be $\pm 10\%$ of the initial
drop test	The part will be dropped from a height of	measurements. The SPL should
	75 cm onto a 40 mm thick wooden board 3	be within ±10dB compared with
	times in 3 axes (X, Y, Z) for a total of 9 drops.	the initial measurement.

ENVIRONMENT TEST

test condition	evaluation standard
After being placed in a chamber at +95°C for	
240 hours.	
After being placed in a chamber at -40°C for	
240 hours.	
After being placed in a chamber at +40°C and	
90±5% relative humidity for 240 hours.	
The part shall be subjected to 5 cycles. One cycle will consist of: +125°C +25°C -40°C	The buzzer will be measured after being placed at +25°C for 4 hours. The value of the oscillation frequency/current consumption should be ±10% compared to the initial measurements. The SPL should be within ±10dB compared to the
0.5hr 0.5hr 0.25 0.5hr 0.5hr 0.5hr 0.25	initial measurements.
╡ ┈┈┈╞╡┈┈┈╞╡┈┈┈╞╡┈┈┈╞╡┈┈┈╞╡┈┈┈╞	
3hours	
	After being placed in a chamber at +95°C for 240 hours. After being placed in a chamber at -40°C for 240 hours. After being placed in a chamber at +40°C and 90±5% relative humidity for 240 hours. The part shall be subjected to 5 cycles. One cycle will consist of:



DESCRIPTION: piezo audio transducer

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	hours. The value of the
	voltage applied.	oscillation frequency/current
		consumption should be ±10%
	2. Intermittent life test:	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 conditiona) tempurature: $+5 \sim +35^{\circ}$ Cb) humidity: 45 - 85%c) pressure: 860-1060 mbarjudgement test conditiona) tempurature: $+25 \pm 2^{\circ}$ Cb) humidity: 60 - 70%c) pressure: 860-1060 mbar



DESCRIPTION: piezo audio transducer



