

Description: piezo audio transducer

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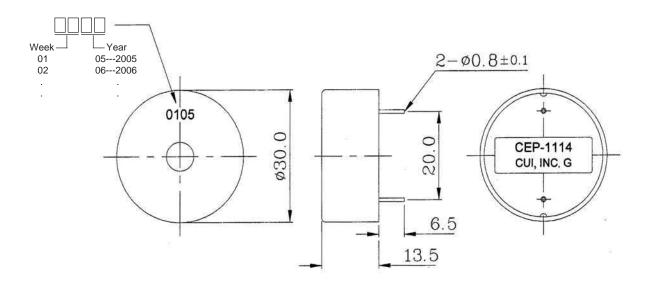


Specifications

30 Vp-p max.	
11 mA max.	at 10 Vp-p, square wave, 2.0 KHz
93 db min.	at 10 cm / 10 Vp-p, square wave, 2.0 KHz
45,000 pF ±30%	at 1 KHz / 1 V
-30 ~ +80° C	
-40 ~ +80° C	
ø30.0 x H13.5 mm	
4.30 g max.	
ABS UL-94 1/16" HB (Blac	k)
Pin type (Au Plating)	
yes	
	11 mA max. 93 db min. 45,000 pF ±30% -30 ~ +80° C -40 ~ +80° C Ø30.0 x H13.5 mm 4.30 g max. ABS UL-94 1/16" HB (Black Pin type (Au Plating)

Appearance Drawing

Tolerance: ±0.5





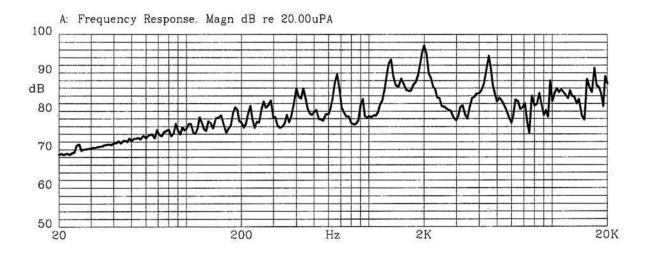
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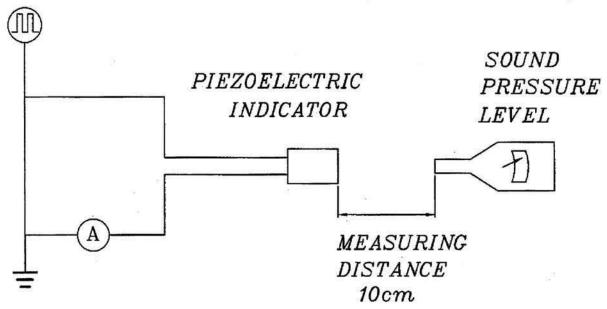
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Typical Frequency Response Curve



Measurement Method



S.P.L. Measuring Circuit

Input Signal: 10 V p-p, 2.0 KHz, Square Wave

Mic: RION UC 30

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



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Mechanical Characteristics

Item	Test Condition	Evaluation Standard
Solderability ¹	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 or 260 ±5°C for 10 ±1 seconds.	,
Terminal Mechanical Strength	For 10 seconds, the force of 9.8N (1.0kg) is	No damage or cutting off.
_	applied to each terminal in axial direction.	
Vibration	The buzzer should be measured after applying	The value of oscillation
	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.	

Notes: 1. Not recommended for wave soldering

Environment Test

Item	Test Condition	Evaluation Standard
High temp. test	After being placed in a chamber at +80°C for	
Low temp. test	240 hours. After being placed in a chamber at -40°C for	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
•	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	
	cycle will consist of:	
	+80° ℃	
	+25°C +25°C	measurements. The SPL should
		be within ±10dB compared to the
	-40°C	initial measurements.
	0.5hr 0.5hr 0.25 0.5hr 0.5hr 0.5hr 0.25	
	3hours	
	4	



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Reliability Test

Item	Test Condition	Evaluation Standard
Operating (Life Test)	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 +65°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 minute off, a	measurements. The SPL should
	minimum of 5,000 times at room temp	be within ±10dB compared to
	(+25 ±2°C) with rated volt age applied.	the initial measurements.

Test Conditions

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Standard Test Condition	a) Tempurature: +5 ~ +35℃	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

