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date 11/12/2007

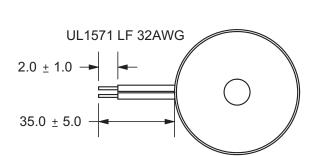
PART NUMBER: CPE-163 DESCRIPTION: piezo audio transducer

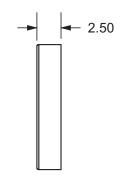
SPECIFICATIONS

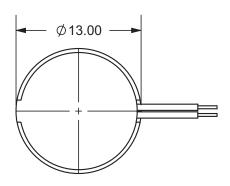
operating voltage	30 Vp-p max.	
current consumption	10 mA max.	at 10 Vp-p, sqaure wave, 4.8 Khz
sound pressure level	80 db min.	at 10 cm/10 Vp-p, sqaure wave, 4.8 Khz
electrostatic capacity	14,000 ± 30%	at 1 Khz/1 V
operating tempurature	-30 ~ +85° C	
storage tempurature	-40 ~ +95° C	
dimensions	Ø13.0 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







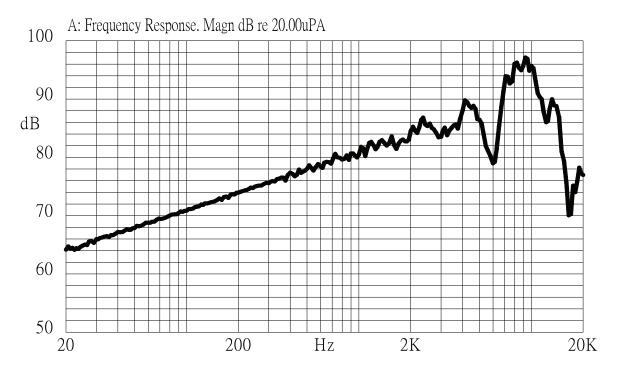


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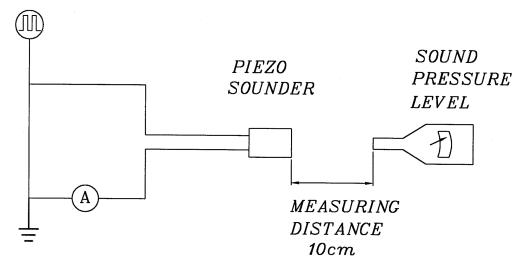
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FREQUENCY RESPONSE CURVE



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 imme	Stripped wires are immersed in rosin for	
	5 seconds and then immersed in solder bath		will be wet with solder
	of 230 ±5°C for 3 ±1 se	of 230 ±5°C for 3 ±1 seconds.	
soldering heat resistance	Stripped wires are imme	Stripped wires are immersed up to 1.5mm from	
	buzzer's body in solder	buzzer's body in solder bath of 300 ±5°C for	
	3 ±0.5 seconds or 260 =	±5°C for 10 ±1 seconds.	-
lead wire pull strength	The pull force shall be a	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 me	The buzzer shall be measured after applying	
	a vibration amplitude of	a vibration amplitude of 1.5 mm with 10 to	
	55 Hz band of vibration	55 Hz band of vibration frequency to each of	
	the 3 perpendicular dire	the 3 perpendicular directions for 2 hours.	
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.	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 initial measurements.
temp. cycle test	The part shall be subjected to 5 cycles. One cycle will consist of: +95°C +25°C -40°C 0.5hr 0.5hr 0.5hr 0.5hr 0.5hr 0.5hr 0.5hr 3hours	



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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 +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 ±2°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

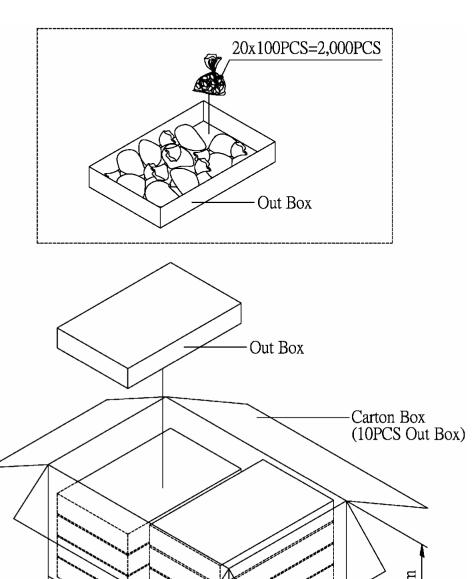


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PACKAGING



Out Box	310mmx248mmx49mm	20x100PCS=2,000PCS
Carton Box	550mmx330mmx290mm	2,000PCSx10=20,000PCS

AMEYA360 Components Supply Platform

Authorized Distribution Brand:

























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