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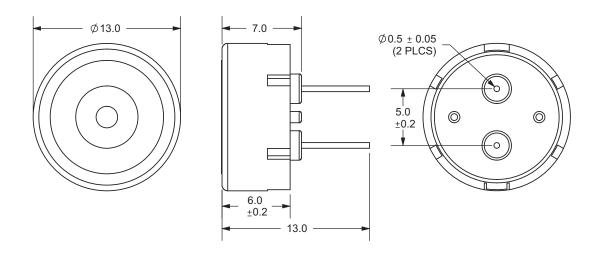
PART NUMBER: CPE-168 DESCRIPTION: piezo audio transducer

SPECIFICATONS

operating voltage	30 Vp-p max.	
current consumption	9 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 120 Khz/1 V
operating tempurature	-20 ~ +70° C	
storage tempurature	-30 ~ +80° C	
dimensions	Ø13.0 x H6.0 mm	
weight	0.8 g max.	
material	PBT (black)	
terminal	pin type (Sn plating)	
RoHS	yes	

APPEARANCE DRAWING

tolerance: ±0.5 units: mm

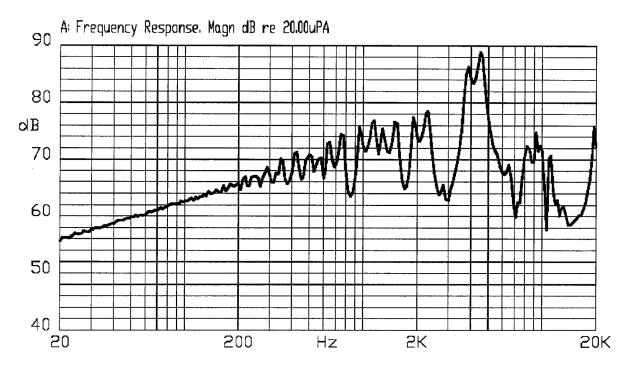




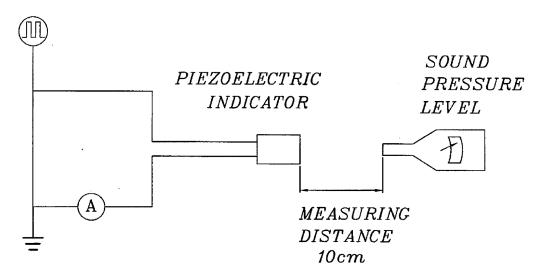
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FREQUENCY RESPONSE CURVE



MEASUREMENT METHOD



S.P.L. Measuring Circuit

Mic: RION S.P.L. meter UC30 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 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.
_	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 ±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.

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 240 hours.	
low temp. test	After being placed in a chamber at -30°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: +80°C -30°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 +55°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

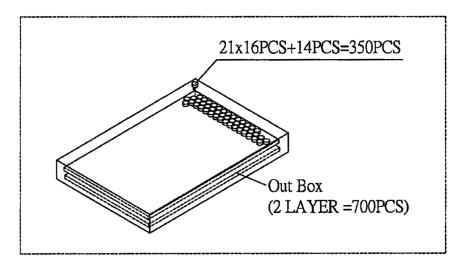


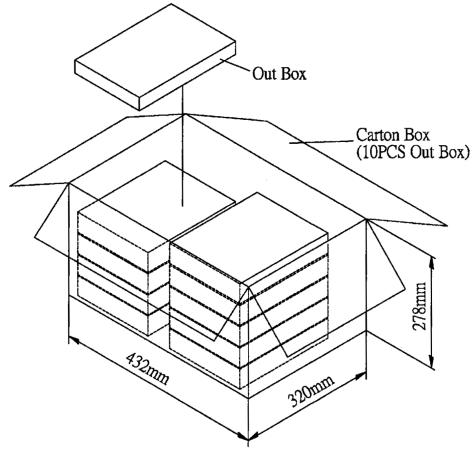
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PACKAGING





Out Box	315mmx210mmx50mm	2x350PCS=700PCS
Carton Box	432mmx320mmx78mm	700PCSx10=7,000PCS

AMEYA360 Components Supply Platform

Authorized Distribution Brand:

























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