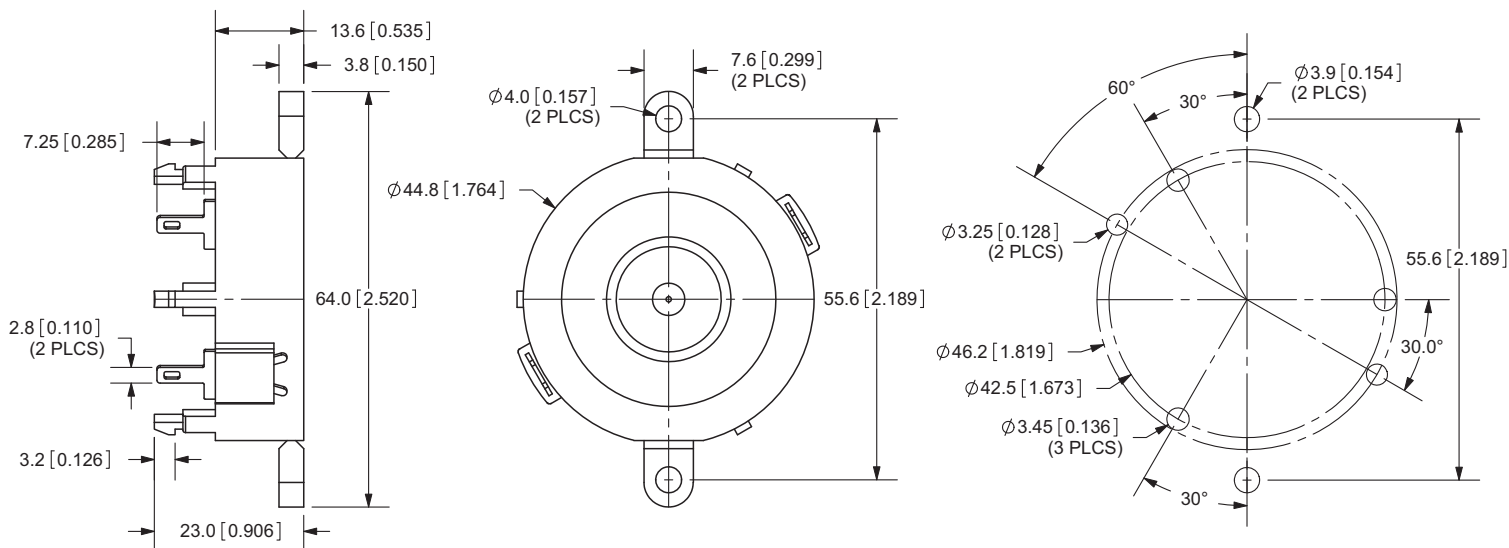


PART NUMBER: CPE-4485**DESCRIPTION: PIEZO AUDIO TRANSDUCER****SPECIFICATIONS**

parameter	conditions/description	min	nom	max	units
operating frequency		2.2		4	K Hz
operating voltage	continuous sine wave		85		V p-p
	continuous square wave		50		V p-p
	intermittent sine wave		100		V p-p
	intermittent square wave		60		V p-p
sound pressure level	at 30 cm / 12 V p-p, square wave, 3000 Hz	100			dBA
electrostatic capacity	at 120 Hz, 1 V	0.1645	0.235	0.3055	uF
operating temperature		-40		105	°C
storage temperature		-40		105	°C
dimenstions	ø44.8 x H13.6 mm				
weight				11.5	g
material	PBT + 15% GLASS UL94 V-0 (black)				
terminal	pin type				
RoHS	yes				

APPEARANCE DRAWING

TOLERANCE:
±0.5mm UNLESS OTHERWISE
SPECIFIED



CUI INC

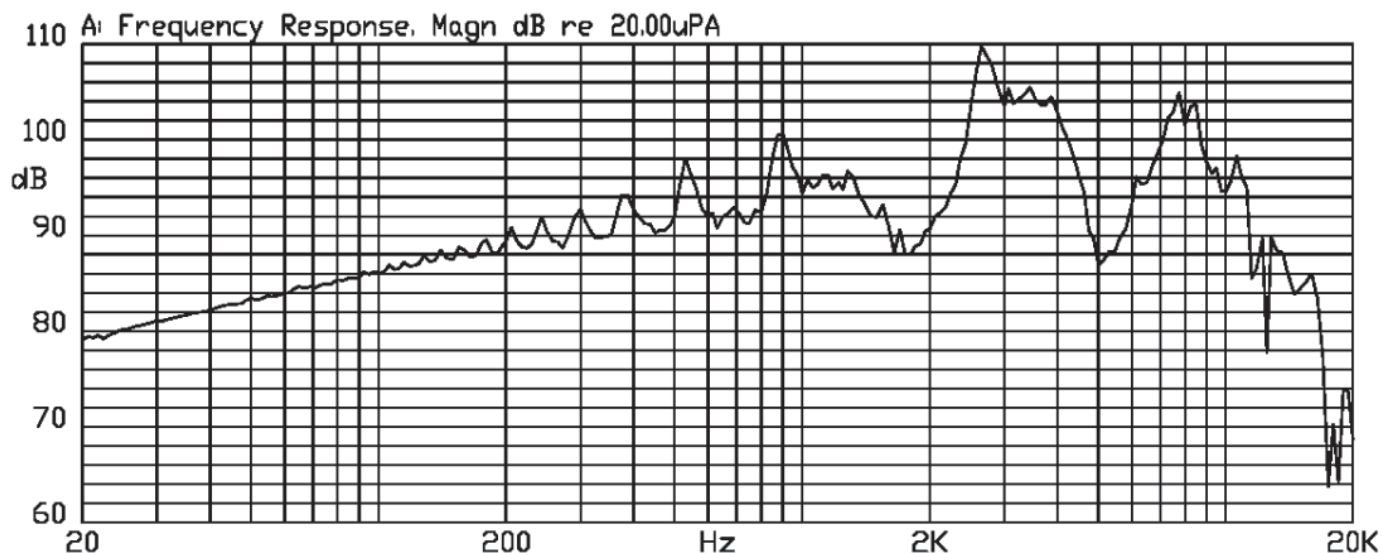
date 06/2010

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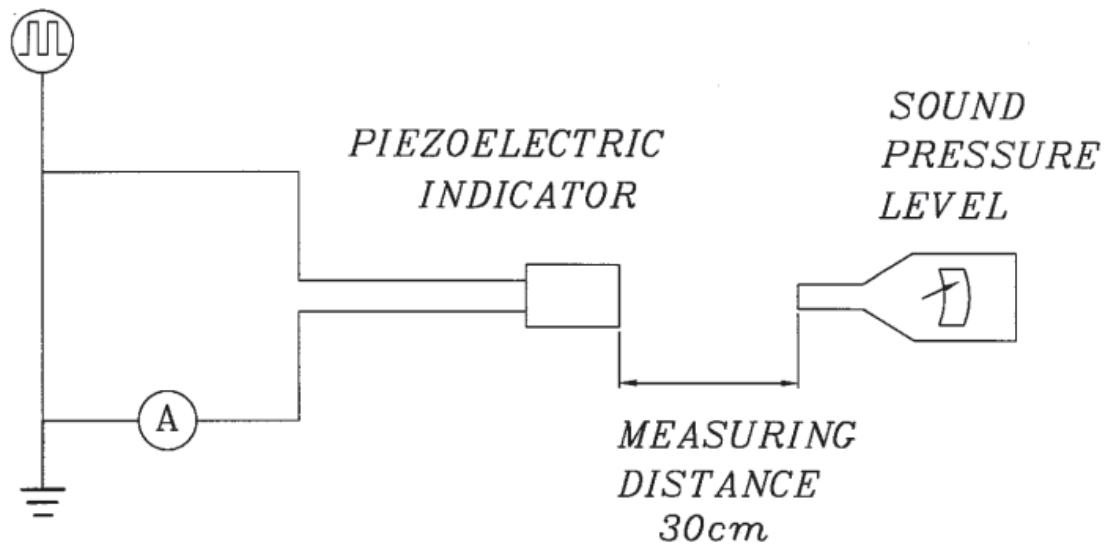
PART NUMBER: CPE-4485

DESCRIPTION: PIEZO AUDIO TRANSDUCER

FREQUENCY RESPONSE



MEASUREMENT METHOD



S.P.L. Measuring Circuit

Input signal: 12 V p-p, 3.0 kHz, square wave

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

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



PART NUMBER: CPE-4485

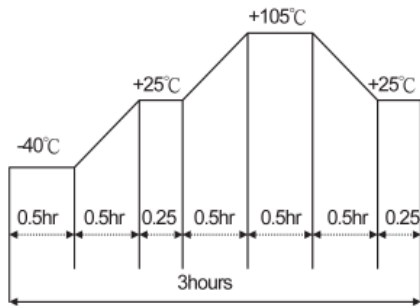
DESCRIPTION: PIEZO AUDIO TRANSDUCER

MECHANICAL CHARACTERISTICS

item	test condition	evaluation standard
solderability ¹	Lead terminals are immersed in rosin for 5 seconds and then immersed in a solder bath of $+270 \pm 5^{\circ}\text{C}$ for 3 ± 1.0 second.	90% min. of the lead terminals will be wet with solder. (except the edge of the terminal)
soldering heat resistance	Lead terminals are immersed up to 1.5 mm from the buzzer's body in a solder bath of $260 \pm 5^{\circ}\text{C}$ for 3 ± 1 seconds.	No interference in operation.
terminal pull strength	The force of 9.8 N is applied for 10 sec. to each terminal in axial direction.	No damage or cutting off.
vibration test	The buzzer should be measured after a vibration amplitude of 1.5 mm with 10 ~ 55 Hz band of vibration frequency to each of the 3 perpendicular directions for 2 hours.	The buzzer will be measured after being placed at $+25^{\circ}\text{C}$ for 4 hours. The value of oscillation frequency / current consumption should be $\pm 10\%$ of the initial measurements. The SPL should be within $\pm 10\text{dB}$ compared with the initial measurement.
drop test	The buzzer without packaging is subjected to 3 drops on each axis from the height of 75 cm onto a 40 mm thick wooden board.	

Notes: 1. Not recommended for wave soldering

ENVIRONMENT TEST

item	test condition	evaluation standard
high temperature test	After being placed in a chamber at $+105^{\circ}\text{C}$ for 240 hours.	The buzzer will be measured after being placed at $+25^{\circ}\text{C}$ for 4 hours. The value of the oscillation frequency / current consumption should be $\pm 10\%$ compared to the initial measurements. The SPL should be within $\pm 10\text{dB}$ compared to the initial measurements.
low temperature test	After being placed in a chamber at -40°C for 240 hours.	
humidity test	After being placed in a chamber at $+40^{\circ}\text{C}$ and $90 \pm 5\%$ RH for 240 hours.	
temperature cycle test	The part will be subjected to 5 cycles. One cycle will consist of: 	

RELIABILITY TEST

item	test condition	evaluation standard
operating (life test)	1. Continuous life test: The part will be subjected to 48 hours of continuous operation at 90°C with rated voltage applied. 2. Intermittent life test: A duty cycle of 1 minute on, 1 minute off, a minimum of 5,000 times at room temp ($+25 \pm 2^{\circ}\text{C}$) with rated voltage applied.	The buzzer will be measured after being placed at $+25^{\circ}\text{C}$ for 4 hours. The value of oscillation frequency / current consumption should be $\pm 10\%$ of the initial measurements. The SPL should be within $\pm 10\text{dB}$ compared with the initial measurement.

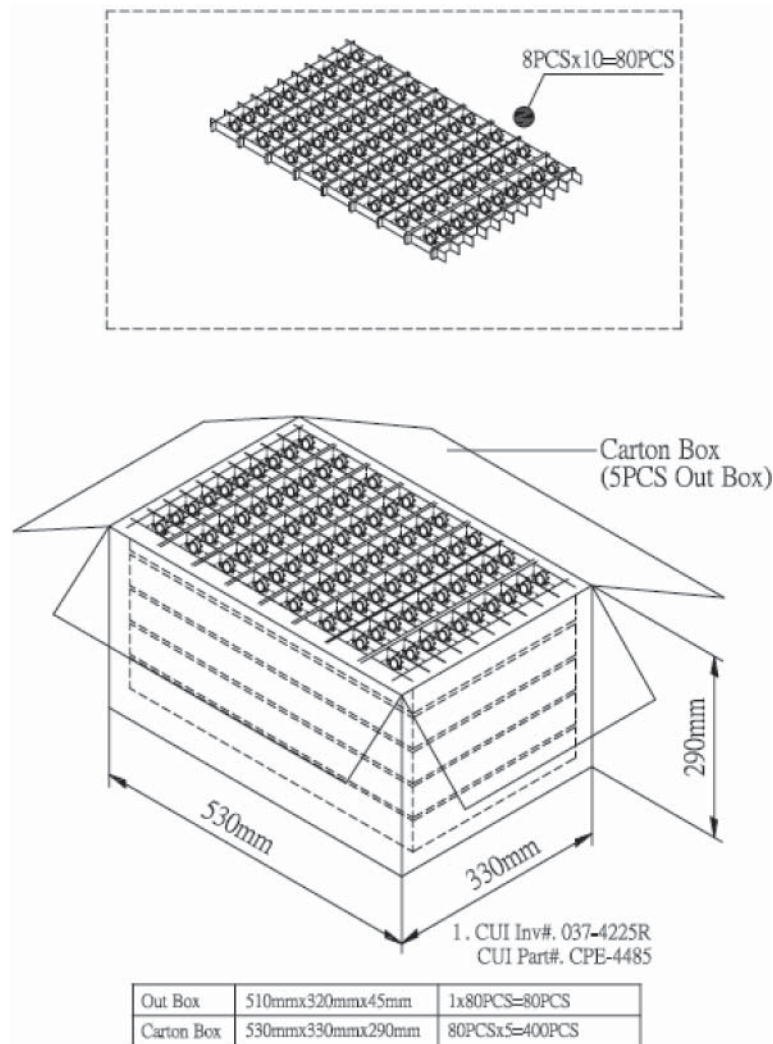
TEST CONDITIONS

standard test conditions	a) Temperature: $+5 \sim +35^{\circ}\text{C}$	b) Humidity: 45 ~ 85%	c) Pressure: 860 ~ 1060 mbar
judgement test conditions	a) Temperature: $+25 \pm 2^{\circ}\text{C}$	b) Humidity: 60 ~ 70%	c) Pressure: 860 ~ 1060 mbar

PART NUMBER: CPE-4485

DESCRIPTION: PIEZO AUDIO TRANSDUCER

PACKAGING



Данный компонент на территории Российской Федерации

Вы можете приобрести в компании MosChip.

Для оперативного оформления запроса Вам необходимо перейти по данной ссылке:

<http://moschip.ru/get-element>

Вы можете разместить у нас заказ для любого Вашего проекта, будь то серийное производство или разработка единичного прибора.

В нашем ассортименте представлены ведущие мировые производители активных и пассивных электронных компонентов.

Нашей специализацией является поставка электронной компонентной базы двойного назначения, продукции таких производителей как XILINX, Intel (ex.ALTERA), Vicor, Microchip, Texas Instruments, Analog Devices, Mini-Circuits, Amphenol, Glenair.

Сотрудничество с глобальными дистрибьюторами электронных компонентов, предоставляет возможность заказывать и получать с международных складов практически любой перечень компонентов в оптимальные для Вас сроки.

На всех этапах разработки и производства наши партнеры могут получить квалифицированную поддержку опытных инженеров.

Система менеджмента качества компании отвечает требованиям в соответствии с ГОСТ Р ИСО 9001, ГОСТ РВ 0015-002 и ЭС РД 009

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