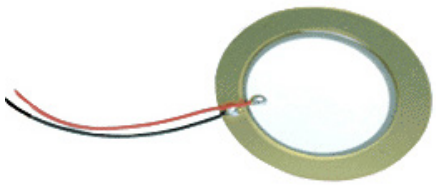
CUDEVICES

MODEL: CEB-27D44 | **DESCRIPTION:** PIEZOELECTRIC DIAPHRAGM

FEATURES

- piezo element with wire leads
- 30 Vp-p max operating voltage
- 4,600 Hz rated frequency



RoHS

SPECIFICATIONS

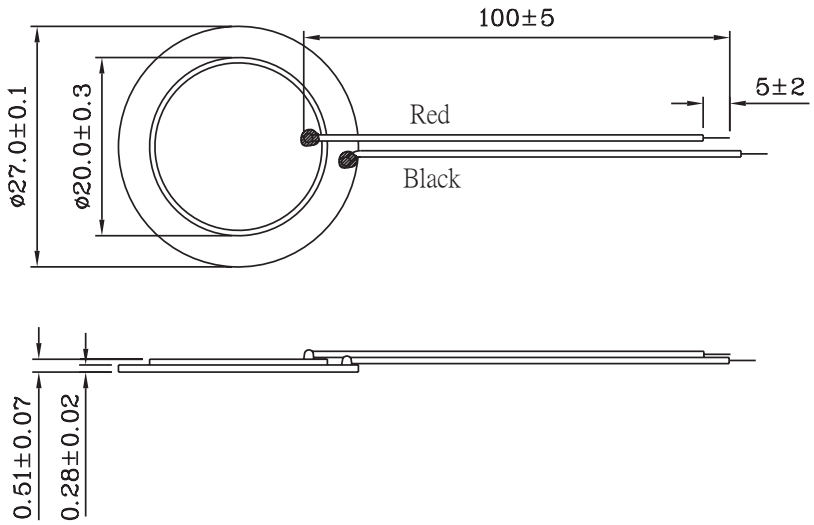
parameter	conditions/description	min	typ	max	units
operating voltage				30	Vp-p
resonant frequency	only for piezo element without wire	4,100	4,600	5,100	Hz
resonant impedance	only for piezo element without wire			250	Ω
electrostatic capacity	at 1000 Hz/1 V	11,200	16,000	20,800	pF
dc resistance	for 1 second	20			MΩ
dimensions	Ø27 x 0.51				mm
weight				2.0	g
material	brass				
terminal	wire leads				
operating temperature		-20		70	°C
storage temperature		-30		80	°C
RoHS	yes				

Notes: 1. All specifications measured at 5~35°C, humidity at 45~85%, under 86~106kPa pressure, unless otherwise noted.

MECHANICAL DRAWING

units: mm
tolerance: ±0.5 mm

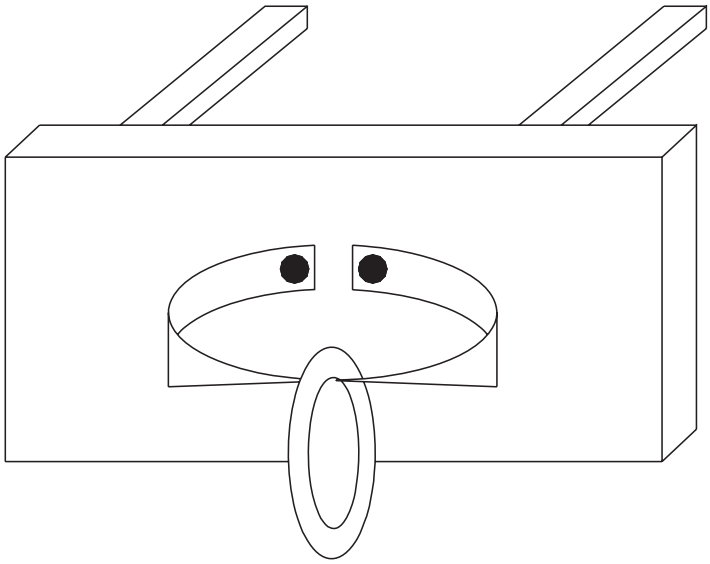
wire: UL1571 LF 32 AWG



MEASURING METHOD

Resonant Frequency / Resonant Impedance

The piezo electric diaphragm shall be clamped at a node point as shown in the following figure to be free from any mechanical stress, and measured its resonant frequency and resonant impedance by using vector impedance analyzer or equivalent.
When the input frequency is swept within 100 Hz to 7 kHz, the resonant frequency is defined as the frequency where the impedance shows the minimum value, and this impedance shall be the resonant impedance.



Static Capacitance

The electrostatic capacitance shall be measured at 1.0 kHz by using LCR meter HP4194A(H.P.) or equivalent. This part shall be clamped in the same way as the measurement of resonant frequency and resonant impedance as mentioned above.

REVISION HISTORY

rev.	description	date
1.0	initial release	07/28/2006
1.01	brand update	05/13/2020
1.02	logo, datasheet style update	08/05/2022

The revision history provided is for informational purposes only and is believed to be accurate.

CUI Devices offers a one (1) year limited warranty. Complete warranty information is listed on our website.

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