

# Ceramic Transducer Design Co.,Ltd

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Photo:



The specifications describe the ultrasonic transducer

PARTS NUMBER	40CA-15D
Center frequency (KHz)	40.0±1.0
Sound pressure level (dB)	102(min)
Sensitivity (dB)	-78(min)
Capacitance (pF)	1950±20%
Directivity deg (-6dB) wide	120°
Directivity deg (-6dB) narrow	60°
Ring time (ms)**	≤ 1.2
Max driving voltage (V)	160
Working temperature (°C)	-30~85
Case/ color	Aluminum/black

- Sound Pressure Level: 0 dB v.s. 0.0002μbar measured at 10Vrms, 30cm distance.
- Sensitivity: 0dB v.s. 1V/μbar.

\*\*Ring time was test with input 120V, 40KHz,0.8msec square wave.

### OUTLINE DIMENSION:

A=15.0±0.5

B=9.0±0.5

C=6.0±0.5

D=3.0±0.5

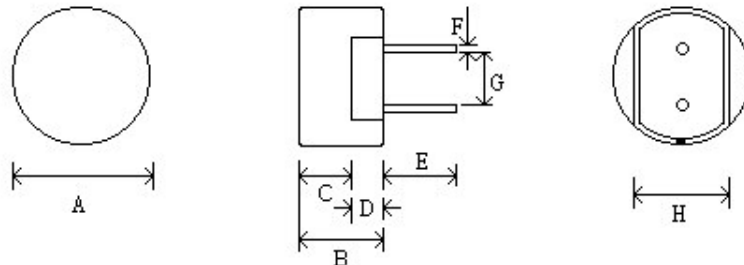
E=8.0±1.0

F=1.0±0.1

G=6.0±0.5

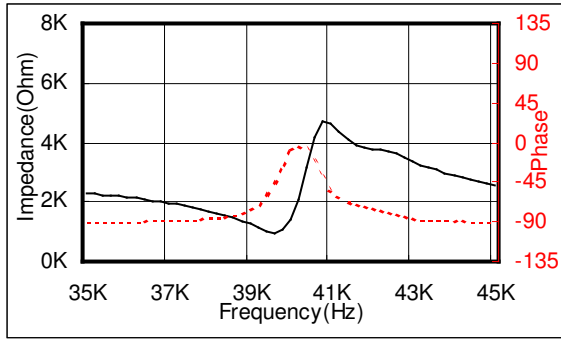
H=12.0±0.5

Unit: mm

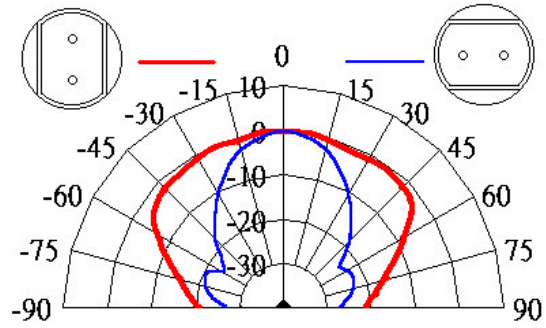


Pin: red for floating (+)

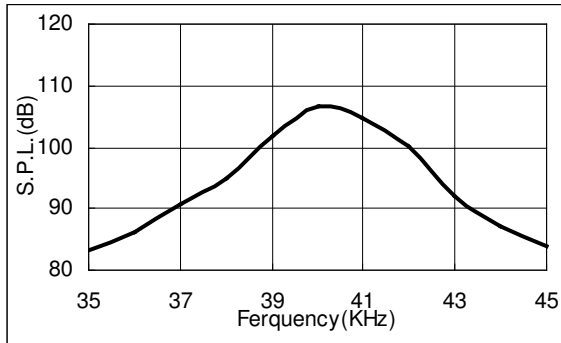
Impedance /Phase Angle VS Frequency



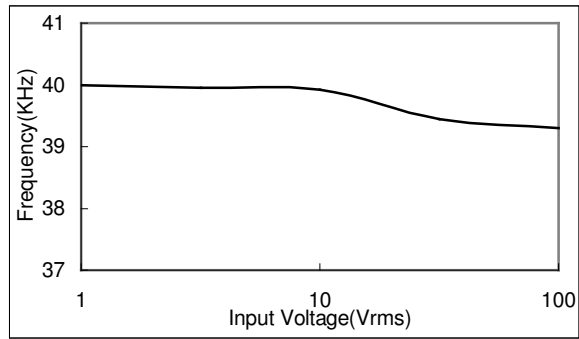
Directivity



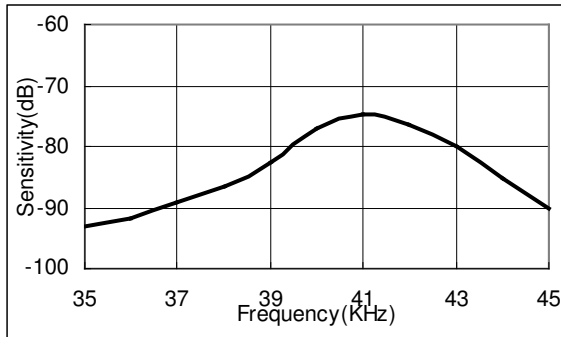
Sound Pressure Level VS Frequency



Center Frequency VS Input Voltage



Sensitivity VS Frequency



Output S.P.L. VS Input Voltage

