

# Ceramic Transducer Design Co.,Ltd

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Photo:



The specifications describe the ultrasonic transducer

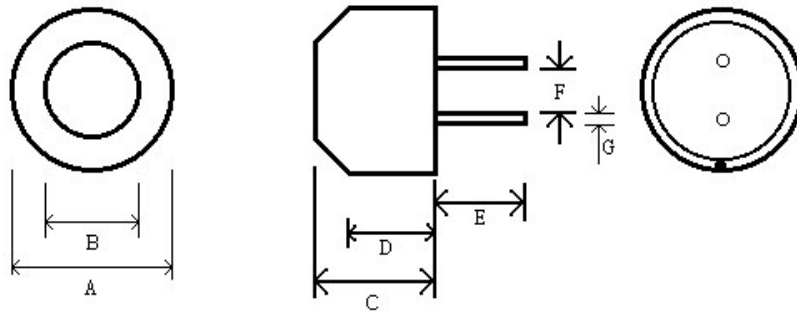
PARTS NUMBER	40CA-18ST	40CA-18SC	40CA-18SR
Center frequency (KHz)	40.0±1.0		
Sound pressure level (dB)	106(min)	104(min)	-----
Sensitivity (dB)	-----	-76(min)	-74(min)
Capacitance (pF)	1950±20%		
Angle of major lobe	180°		
Directivity deg (-6dB)	90°		
Ring time (ms)**	≤ 1.1		
Max driving voltage (V)	160		
Working temperature (°C)	-25~75		
Case	Aluminum		

- 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:

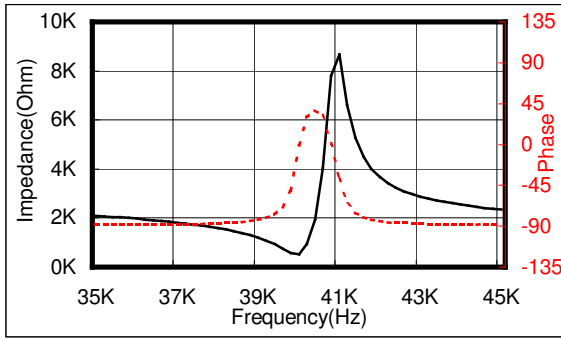
- A=10.0±0.5
- B=18.0±0.5
- C=12.0±0.5
- D=7.0±0.5
- E=8.0±1.0
- F=7.0±0.5
- G=1.0±0.1



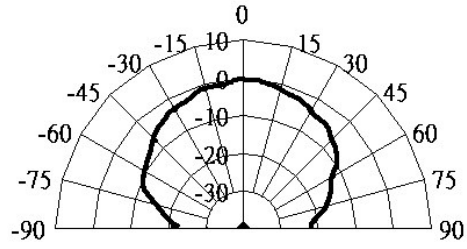
Unit: mm

Pin: silver for floating (+)

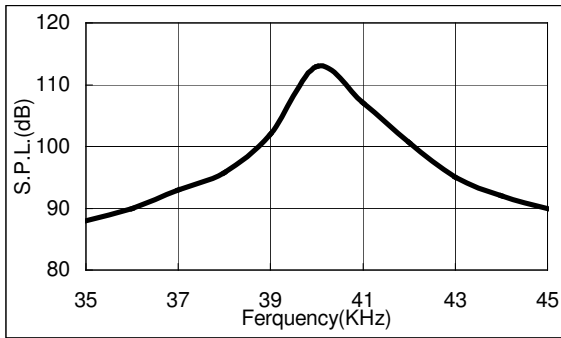
Impedance /Phase Angle VS Frequency



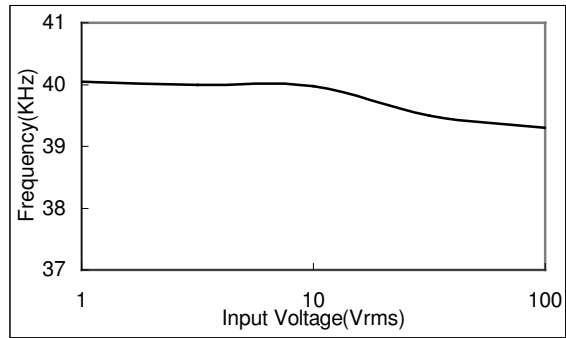
Directivity



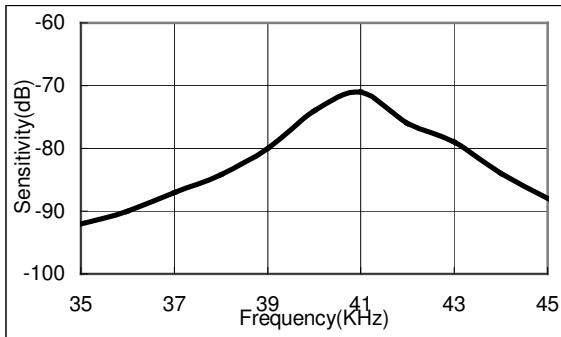
Sound Pressure Level VS Frequency



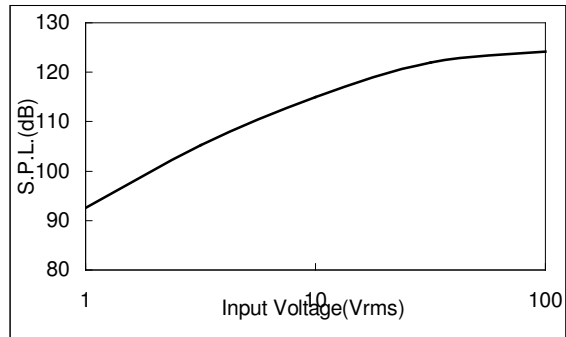
Center Frequency VS Input Voltage



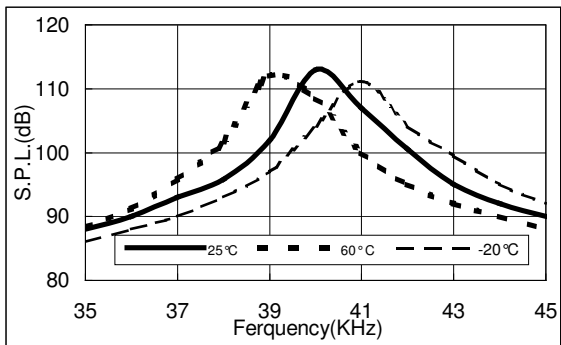
Sensitivity VS Frequency



Output S.P.L. VS Input Voltage



Temperature Characteristic



Capacitance VS Temperature

