

Photo:



Standard type of this sensor:

40T/R-12W	White mesh with aluminum case
40T/R-12B	Black mesh with aluminum case

Specification:

PARTS NUNBER	40T-12	40R-12
Center frequency (kHz)	$40.0 \pm 1.0 \text{ kHz}$	$40.0 \pm 1.0 \text{ kHz}$
Sound pressure level (0dB=0.0002 μ bar)	$\geq 115 \text{ dB}$	-----
Sensitivity (0dB vs 1V/ μ bar)	-----	$\geq -67 \text{ dB}$
Bandwidth (kHz)	4.0/105dB	2.0/-73dB
Beam angle -6dB	60°	
Driving voltage (RMS)	30V	
Working temperature($^\circ\text{C}$)	$-30 \sim 80$	

Dimension(40T/R-12B):

$$A=12.7 \pm 0.2$$

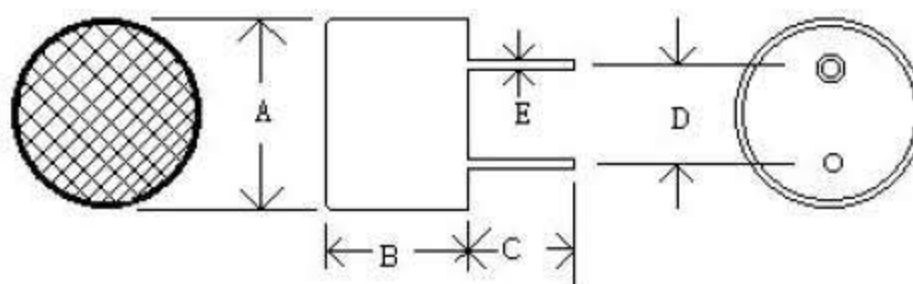
$$B=9.4 \pm 0.4$$

$$C=6.2 \pm 0.8$$

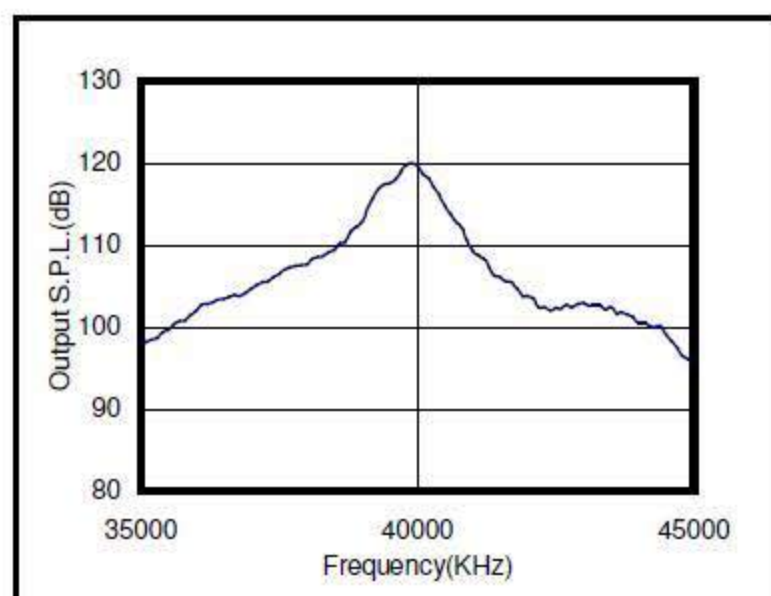
$$D=8.5 \pm 0.2$$

$$E=0.7 \pm 0.1$$

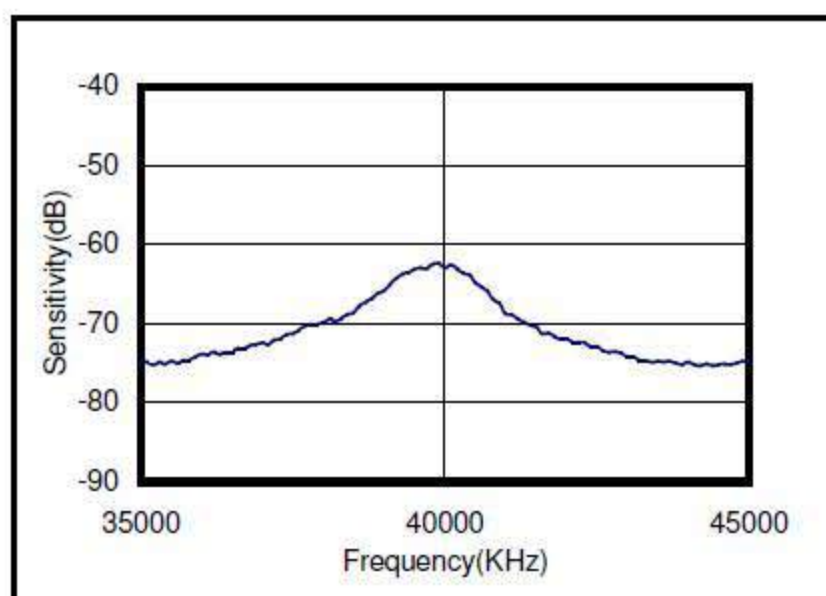
(UNIT: mm)



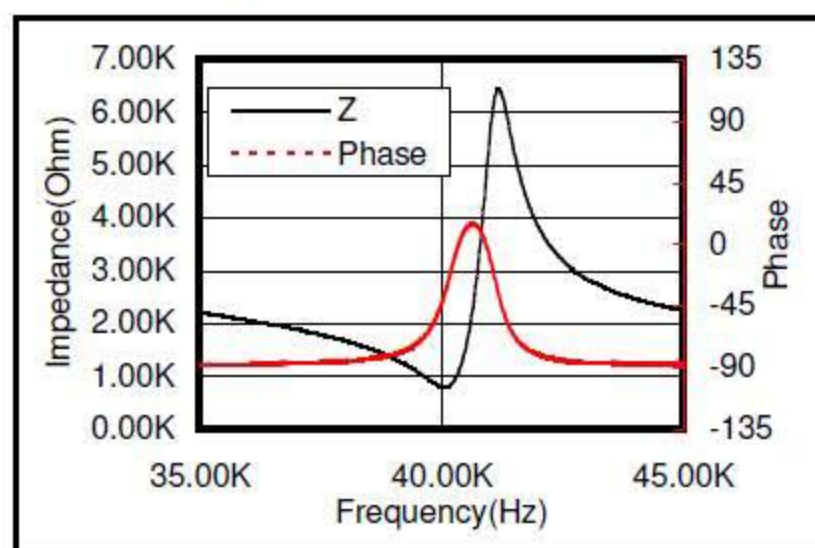
Sound Pressure Level



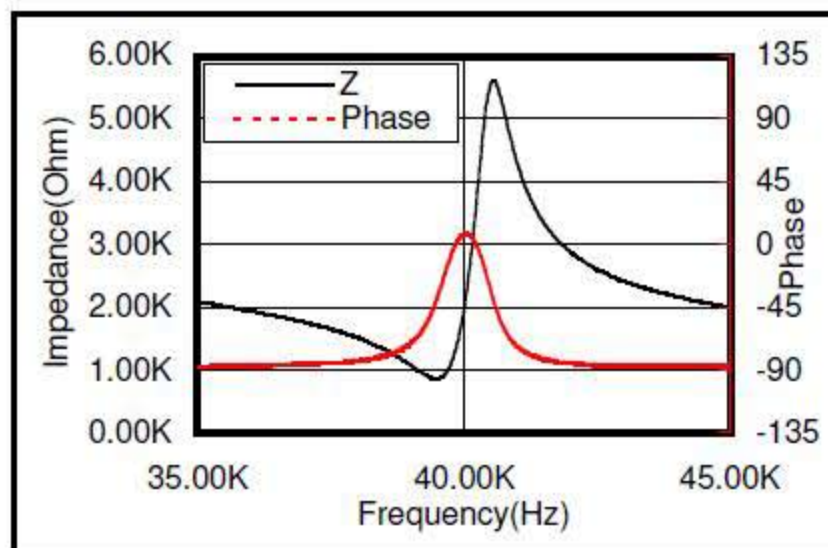
Sensitivity



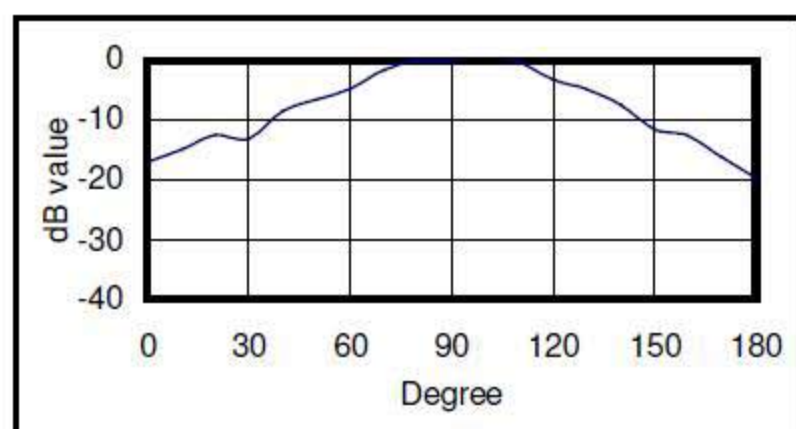
Transmitter impedance



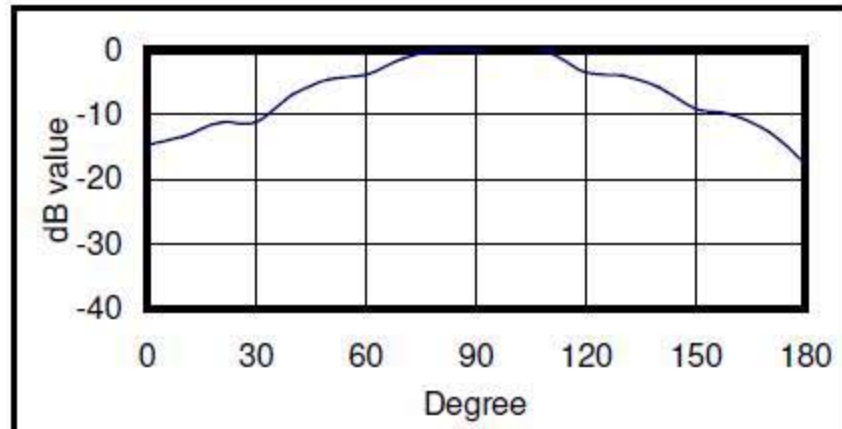
Receiver impedance



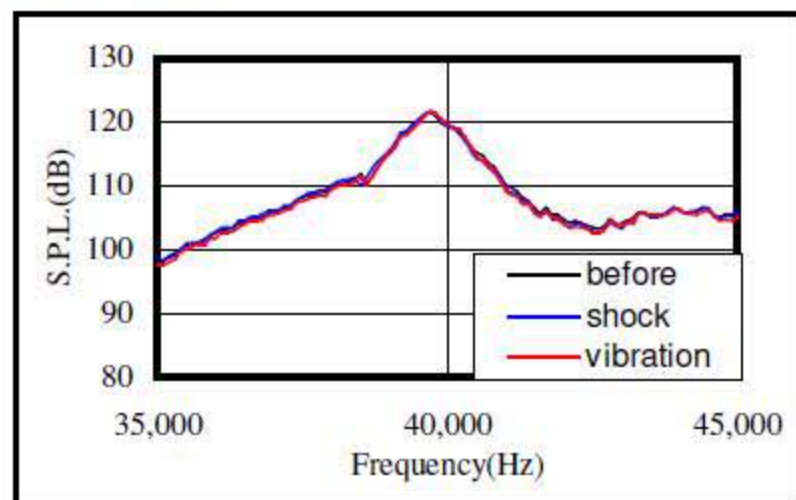
Beam angle of transmitter



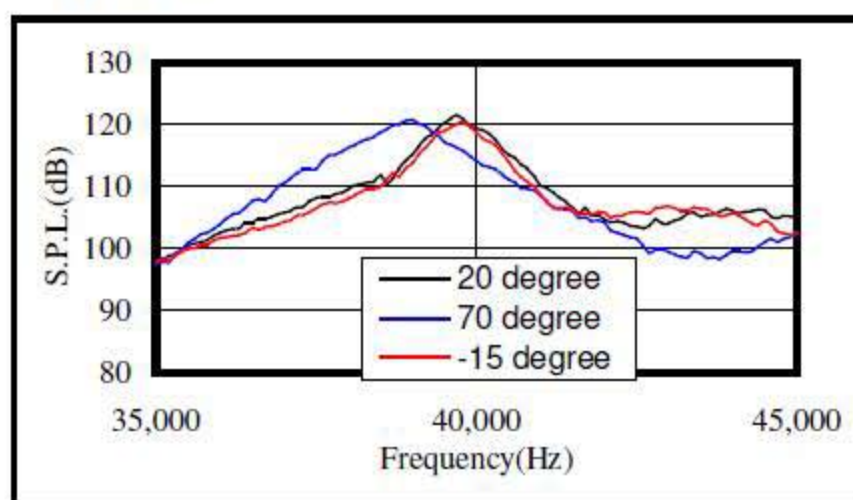
Beam angle of receiver



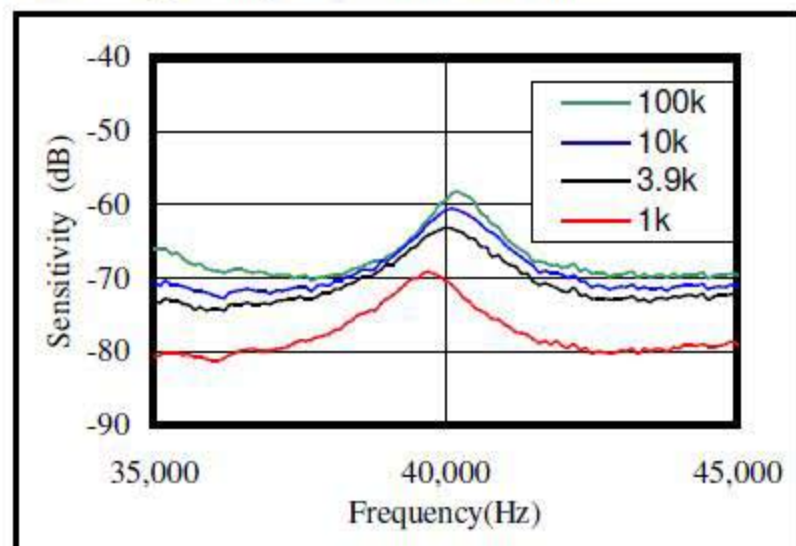
Environment test



Temperature test



Sensitivity change with load resistance



S.P.L. change with driving voltage

