

ULTRA SMALL ULTRASONIC SENSORS

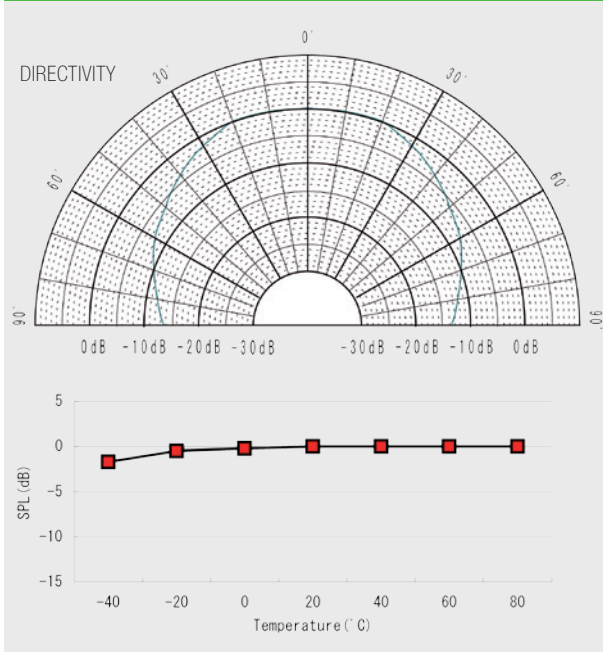


NICERA offers a new series T/R4008A1 of ultra small ultrasonic sensors at frequency 40 kHz. The diameter is 8 mm only at similar sound pressure level as sensors with larger diameter. This allows miniaturization of ultrasonic applications.

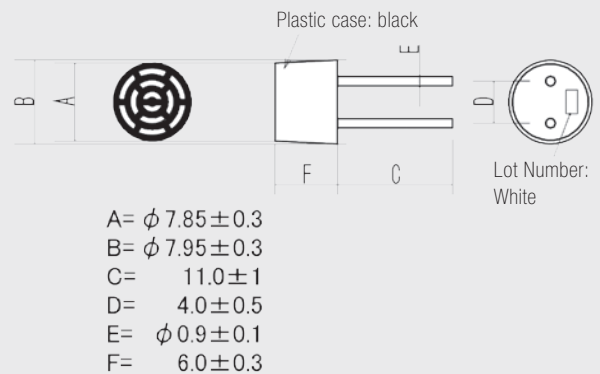
APPLICATIONS

- » Car alarm system
- » Lighting control
- » Automatic door control
- » Liquid level measurement
- » Distance measurement

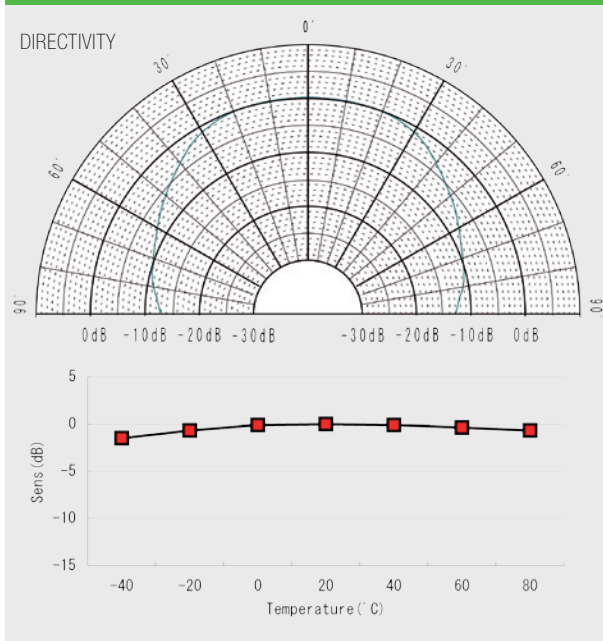
CHARACTERISTICS – TRANSMITTER T4008A1



DIMENSIONS (mm)



CHARACTERISTICS – RECEIVER R4008A1



SPECIFICATIONS

PARAMETER	TRANSMITT. T4008A1	RECEIVER R4008A1
Center frequency [kHz] (0 dB=0.0002 μ bar, 10 Vrms, 30 cm)	40.0 ± 1.0	40.0 ± 1.0
Sound pressure level [dB] (0 dB=1V/ μ bar, $R_L=3.9$ k Ω , 30 cm)	117 min.	–
Sensitivity [dB/V/μbar]	–	-67 min.
Maximum input voltage [Vp-p]	30	–
Resonant impedance [Ω]	809 typ.	–
Anti-resonant impedance [Ω]	–	2890
Capacitance at 1 kHz [pF]	2830	2780
Operating temperature [°C]	-40 ... +85	-40 ... +85