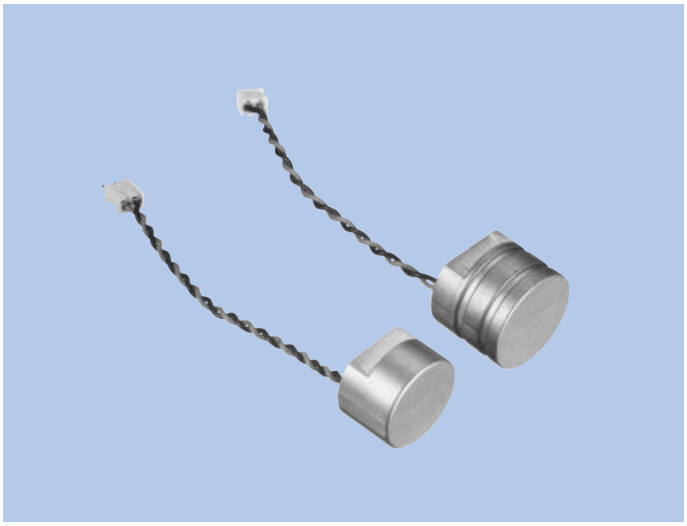
MITSUMI

Ultrasonic Sensor
SUD-40165CB00•SUD-40150CB00

OUTLINE

The piezoelectrical effect of piezoelectric ceramic is used in this ultrasonic sensor for detecting the 40kHz- wavelength of acoustic energy.



FEATURES

1. Small size, light weight.
2. Size can be between 15-20mm in diameter.
3. Optimum structure and decay time.
4. Maximum input voltage is large, and sensitivity setting is easy.
5. Wide usage temperature range: −30 ~ +80°C
6. Sensor is sealed and suitable for in-vehicle or outdoor use.

USES

1. Car rear sensors (sonar)
2. Unattended parking systems
3. Unattended open/close systems
4. Intruder warning devices

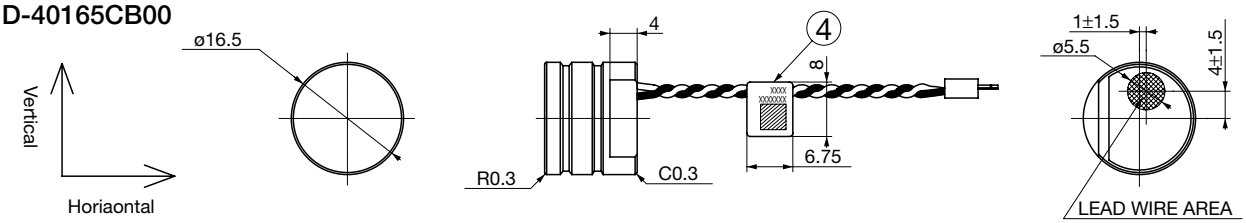
SPECIFICATIONS

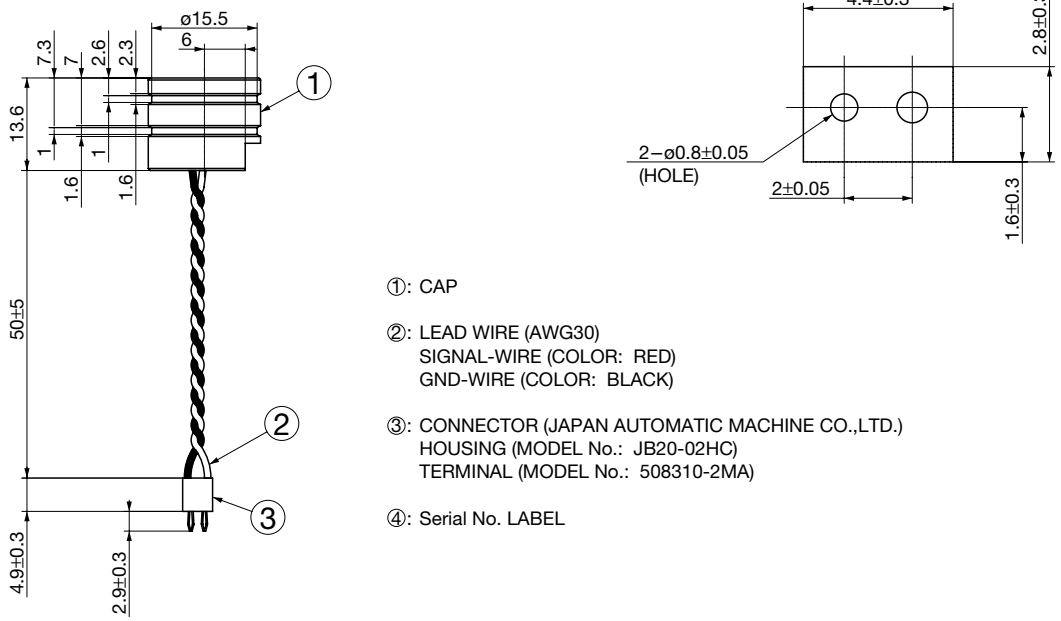
Item	Specification
Nominal frequency	40kHz
Sound pressure	100dB typ.
Sensitivity	−84dB typ.
Reverbatory sensitivity	1.5mVp-p min.
Decay time	1.5ms max.
Insulating resistance	100MΩ (when DC 100V is impressed)
Maximum input voltage	DC 100V max. AC 150Vp-p max.
Operating temperature range	−30~+80°C

*Specifications may be changed for the purpose of improvement and upgrading.

DIMENSIONS

SUD-40165CB00





①: CAP

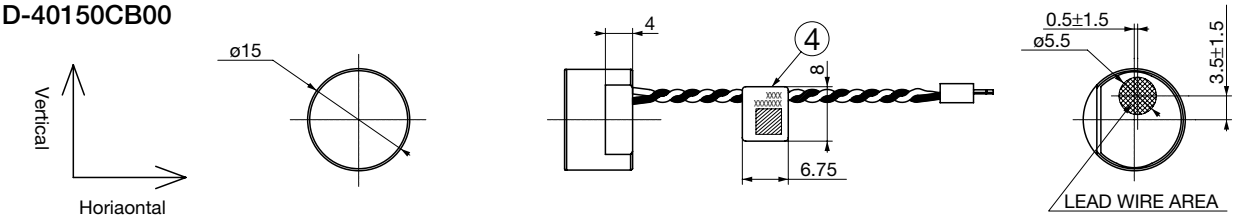
②: LEAD WIRE (AWG30)
SIGNAL-WIRE (COLOR: RED)
GND-WIRE (COLOR: BLACK)

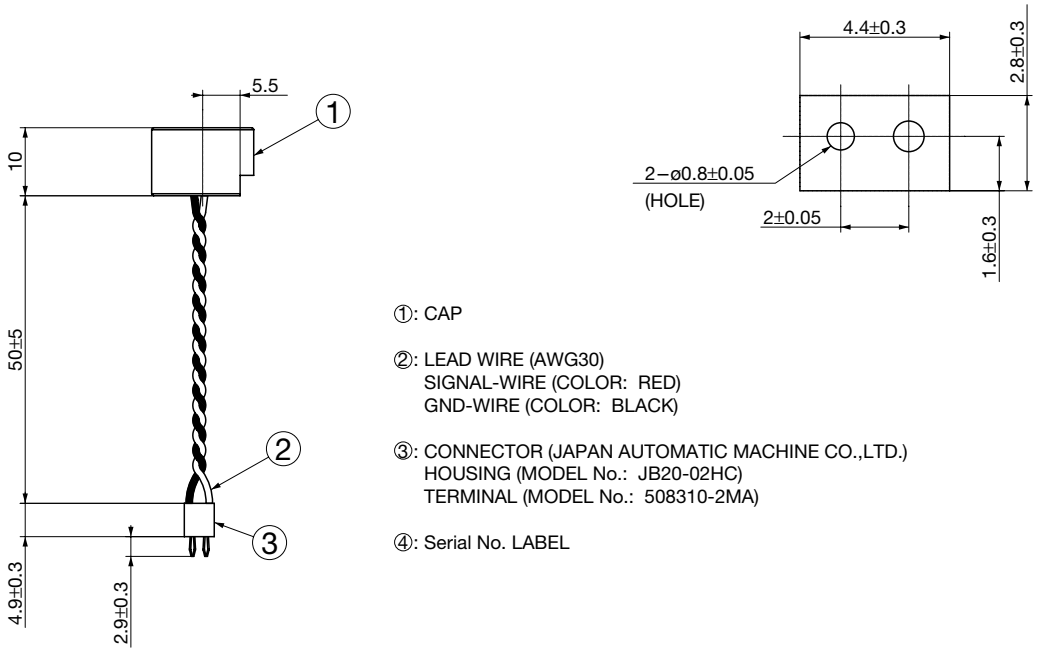
③: CONNECTOR (JAPAN AUTOMATIC MACHINE CO.,LTD.)
HOUSING (MODEL No.: JB20-02HC)
TERMINAL (MODEL No.: 508310-2MA)

④: Serial No. LABEL

Unit: mm

SUD-40150CB00





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