

Piezoelectric Ceramics (PIEZOTITE®) Sensors



Ultrasonic Sensors

Open Structure Type

■ Features

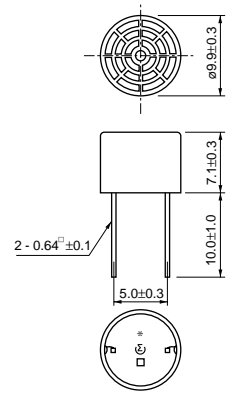
1. Compact and light weight.
2. High sensitivity and sound pressure.
3. High reliability.

■ Applications

Burglar alarms, Range finders, Automatic doors, Remote control.



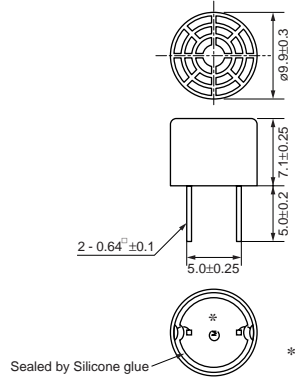
MA40S4R/S



* : EIAJ Code
□ : R or S (in mm)



MA40S5



* : EIAJ Code (in mm)

5

Part Number	Structure	Using Method	Nominal Freq. (kHz)	Overall Sensitivity (mVp-p)	Sensitivity (dB)	S.P.L. (dB)	Directivity (°)	Cap. (pF)	Operating Temp. Range (°C)	Detectable Range (m)	Max. Input Voltage (Vp-p)
MA40S4R	Open struct.	Receiver	40	-	-63 typ.	-	80 (typ.)	2550	-40 to 85	0.2 to 4	-
MA40S4S	Open struct.	Transmitter	40	-	-	120 typ.	80 (typ.)	2550	-40 to 85	0.2 to 4	20 40kHz square waves, Continuous signal
MA40S5	Open struct.	Dual Use	40	20 +20/-10	-	-	60 (typ.)	2550	-40 to 85	0.3 to 2	20 40kHz square waves, 16pulses per 100ms

Distance: 30cm, Sensitivity: 0dB=10V/Pa, Sound pressure level: 0dB=20μPa. Refer P19.
 The sensor can be used in the operating temperature range.
 Please refer to individual specifications for the temperature drift of Sensitivity/Sound pressure levels or environmental characteristics in that temperature range.
 Directivity and detectable range are typical values. They can be changed by application circuit and fixing method of the sensor.

