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PIEZO ULTRASONIC SENSOR SPECIFICATIONS

■MODEL: 14C01-TK001L3

■ELECTRICAL SPECIFICATION:

1	Sound Pressure Level(dB)	$\geq 95(30\text{cm}/10\text{Vrms Sine Wave}) 0\text{dB}=0.0002 \mu\text{bar}$
2	Sensitive(dB)	$\geq -82\text{dB}/\text{v}/\mu\text{bar}$
3	Center frequency(KHz)	$40\pm 1.0\text{KHz}$
4	Echo Sensitivity	$\geq 250\text{mV}$ (FIG4 SIMULATION TEST CIRCUIT)
5	Decay Time	$\leq 1.2\text{ms}$ (FIG4 SIMULATION TEST CIRCUIT)
6	Directivity (deg) X-axis	115 ± 10
7	Directivity (deg) Y-axis	65 ± 10
8	Capacitance (pF)	$2000\pm 15\%$
9	Allowable Maximum Input Voltage(Vp-p)	140(40KHz) Pulse width 0.5ms, interval 20ms
10	Mean Time To Failure	50000h
11	Operating Temperature($^{\circ}\text{C}$)	$-40\sim +80$
12	Storage temperature($^{\circ}\text{C}$)	$-40\sim +85$

■APPEARANCE AND DIMENSIONS

