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## PIEZO ULTRASONIC SENSOR SPECIFICATIONS

### ■ MODEL: T/R40-18D01

### ■ ELECTRICAL SPECIFICATION:

1	Sound Pressure Level(dB)	$\geq 100(30\text{cm}/10\text{Vrms Sine Wave}) 0\text{dB}=0.0002 \mu\text{bar}$
2	Sensitive(dB)	$\geq -82\text{dB/v}/\mu\text{bar}$
3	Center frequency(KHz)	$40\pm 1.0\text{KHz}$
4	Echo Sensitivity	$\geq 160\text{mV}$ (FIG4 SIMULATION TEST CIRCUIT)
5	Decay Time	$\leq 1.2\text{ms}$ (FIG4 SIMULATION TEST CIRCUIT)
6	Directivity (deg) X-axis	$80\pm 15$
7	Directivity (deg) Y-axis	$80\pm 15$
8	Capacitance (pF)	$1800\pm 15\%$
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

