

## PIEZO ULTRASONIC SENSOR SPECIFICATIONS

### ■MODEL: T/R40-14U0

### ■ELECTRICAL SPECIFICATION:

1	Sound Pressure Level(dB)	$\geq 95$ (30cm/10Vrms Sine Wave) 0dB=0.0002 $\mu$ bar
2	Sensitive(dB)	$\geq -82$ dB/v/ $\mu$ bar
3	Center frequency(KHz)	40 $\pm$ 1.0KHz
4	Echo Sensitivity	$\geq 230$ mv (FIG4 SIMULATION TEST CIRCUIT)
5	Decay Time	$\leq 1.2$ ms (FIG4 SIMULATION TEST CIRCUIT)
6	Directivity (deg) X-axis	120 $\pm$ 15
7	Directivity (deg) Y-axis	70 $\pm$ 10
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( $^{\circ}$ C)	-40 $\sim$ +80
12	Storage temperature( $^{\circ}$ C)	-40 $\sim$ +85

### ■APPEARANCE AND DIMENSIONS

