

Ultrasonic Sensor (Close Structure)

Model: UC180-TR40ABP



ELECTRICAL SPECIFICATIONS

	Condition	Parameter	Unit
Function		Dual (Receiver + Transmitter)	
Center Frequency		40 ± 1	KHz
Sensitivity For Receiver	0dB = 1V/μbar, 40KHz	Min. -70	dB
Sound Pressure Level For Transmitter	at 40KHz, 10Vrms, sine wave, 30cm	Min. 100	dB
Capacitance	at 1000Hz	1800 ± 20%	pF
Input Voltage	pulse width 0.5ms, interval 20ms	140	Vp-p
Directivity	-6dB	80	deg
Detectable Range		Min. 0.2	m
Decay Time		1.2	ms
Operating Temperature		-30 ~ 80	°C
Terminal		Pin	
Housing Material		Aluminum (Black)	
Weight		5	g
Dustproof And Waterproof Level	IEC 529 edition 2.0 (1989)	IP67	

Notes: Directivity, detectable range and resolution is typical value. It can be changed by application circuit and fixing method of the sensor.

MECHANICAL DRAWING

Dimensions in mm

Tolerance ±0.5mm Except Specified

