

# Piezoelectric Ceramic Sensors (PIEZOTITE®)

**muRata**

## Molded Underwater Transducer

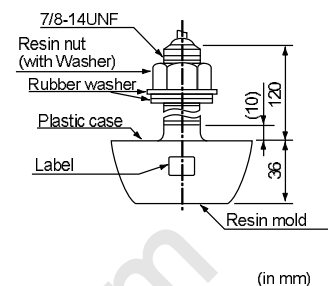
The molded underwater transducer is often used in fish finders and depth sounders. It emits an ultrasonic wave into the water so that the appropriate receiving device can detect the reflected wave in order to prove for fish or determine depth. Designed specifically for underwater use, this vibrator features not only high sensitivity but superior waterproof performance. The rugged design easily gives excellent performance even under high water pressure and waves.

### ■ Features

1. Unique mold technique using rubber, urethane, epoxy resin and other materials assures high sensitivity and dependability.
2. Many models are available for different driving frequencies, allowable input powers, and shapes.



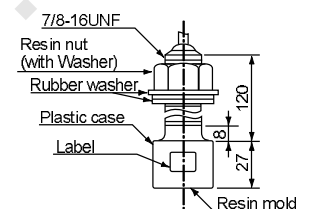
LF type  
(UT200LF8)



(in mm)



BA type  
(UT200BA8)



(in mm)

Part Number	Resonant Frequency (kHz)	Capacitance (pF)	Resonant Impedance (Ω)	Directivity (deg)	Allowable Input Power (W)
UT200BA8	200	1700	310 - 590	22	50
UT200LF8	200	2700	230 - 430	12	200

Wire length is 8 m.

Directivity: The degree when sound pressure level is 6 dB down compared with the value at 0 degree.

Allowable input power : Denotes the instantaneous input power applied to Molded underwater transducer driven underwater.

The driving duty ratio is assumed to be 1/200 (the values in the table above are guidelines)

### ■ Notice

1. Pay close attention to directional characteristics when mounting.
2. Please avoid applying DC-bias by connecting DC blocking capacitor or some other way because, otherwise, the component may be damaged.
3. Do not use in the air.