

■ **Notice (Soldering and Mounting)**

1. Please hold the transducer with soft materials to avoid vibration leakage.
2. Please do not clean with water or organic solvent. Liquid penetration will make malfunction.
3. Please do not apply excessive force to terminals when soldering. It will make damage to sensor housing case, lead wire, piezoelectric element, and other sensor components.
4. Please use soldering iron when you mount sensor on the circuit board. Please do not solder the transducer with flow or reflow soldering. Do not exceed the soldering iron temperature 350 degree C and 3 sec.

■ **Notice(Handling)**

1. Please do not apply D.C. voltage to the transducer to avoid depolarization, or silver migration of electrode on piezoelectric ceramic.
2. The transducer may generate surge voltage by mechanical or thermal shock. Care should be taken to protect from it in designing your application circuit.
3. Please do not use the transducer in liquid as like water, organic solvent, etc. It will cause of malfunction.
4. It is not recommended to drive transducer with 6 drive pulses or more. It will make transducer unstable excitation and unstable sensitivity.
5. Please do not apply excessive mechanical shock to transducer to avoid piezoelectric ceramic breakage.
6. Please do not apply excessive force on the rear of transducer to avoid damage to sensor housing case, lead wire, piezoelectric element, and other sensor components.
7. Avoid sudden changes in temperature. It may cause of depolarization of piezoelectric element.
8. Avoid sudden changes in humidity. It may cause of poor solderability.

■ **Notice (Storage and Operating Condition)**

1. The products should not be used or stored in a corrosive atmosphere, especially where chloride gas, sulfide gas, acid, alkali, salt or the like are present. Store the products in the room where is normal temperature and humidity, and avoid the sunlight, sudden changes in temperature and humidity. It may cause of failure or malfunction in such condition.
2. Store the products where the temperature and relative humidity do not exceed -10 to 40 degree C, and 30 to 80%RH. Use the products within 6 months after receiving.