

## CHARACTERISTICS OF SAW DEVICES

### 1. Maximum Ratings

The standard operating conditions are listed below, although they differ from SAW device to device. These values represent “absolute maximum ratings” that must never be exceeded even for a moment. Any instantaneous excess over these values can result in a breakdown and deterioration, or reduced life of the SAW devices. In addition, these ratings are closely inter-related and require simultaneous compliance. Note that if the user wants a SAW device with operating conditions other than the above, they should consult us separately.

DC.EP.Voltage	Between each lead 2 space 3V max
Maximum input	0.1mW max (-10dBm max)

### 2. Reliability

Various reliability tests are carried out to maintain and ensure the quality and reliability assurance level.

The test items listed to the right are provided as standard.

No.	Item	Conditions
1	Vibration Test	10~55Hz, 1.5mm (Peak to Peak) (3 directions, 12 times)
2	Drop Test	Drop Height: 75cm, 3 drops onto hard wooden board
3	Shock Test	Test Condition: Half sinusoidal wave 980m/s <sup>2</sup> 6ms 6 directions, 3 times each
4	Heat Cycle Test	-40~+85°C 30 minutes at each temp. stage, 25 cycles is gas phase (non-operated)
5	Soldering Resistance	Test Condition: Soaking in the soldering bath at +260±5°C for 10 seconds
6	Soldering Test	Test Condition: Soaking in the soldering bath at +245±5°C for 10 seconds
7	High Temp. Resistance Test	+85°C, 100h (non-operated)
8	Low Temp. Resistance Test	-40°C, 100h (non-operated)
9	High Temperature High Humidity Test	Temperature: +40°C, Humidity: 90~95% Time: 250h (non-operated)

### 3. Quality Assurance

After the last process, all of the finished products are inspected for design and appearance, electrical performance and other conditions to make sure that they conform to requirements for proper and strict quality assurance.

Furthermore, the quality assurance department then determines whether these inspected products satisfy the customer's specific needs as well as providing full reliability.