

**1. SCOPE**

This specification shall cover the characteristics of SAW Filter with F49A used for the cordless-phone.

**2. ELECTRICAL SPECIFICATION**

2.1 Maximum Rating (Ta = 25 °C)

Characteristics		Ratings	Unit
Input signal voltage		5	Vp-p
DC voltage	between input	3	V
	between output		
	Between others		
AC voltage: 50-60 Hz		10	Vp-p
Operating temperature rang		-20 – 70	°C
Storage temperature range		-55 – 85	°C

2.2 Electrical Characteristics

Type	3dB passband (MHz)	Insertion-loss MAX(dB)	Stop-band Atten. MIN(dB)	Loop-loss MIN(dB)	Out-band Atten. (dB)	Impedance (Ω)
HD F49A	49.67~ □ □ □ □ □	4	30	42	30	50/50

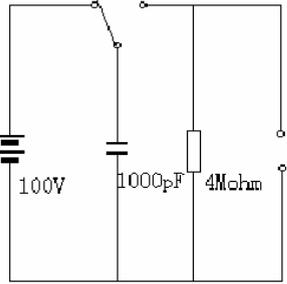
**3. ENVIRONMENTAL PERFORMANCE CHARACTERISTICS**

<b>Item Test condition</b>	<b>Allowable change of absolute Level in pass band(dB)</b>
<b>High temperature test 85 ± 500H</b>	<b>&lt; 1.0</b>
<b>Low temperature test -40 ± 500H</b>	<b>&lt;1.0</b>
<b>Humidity test 40 ± 90-95% 500H</b>	<b>&lt;1.0</b>
<b>Thermal shock -20 ± 25 ± 80 ± 5 cycle 30M 10M 30M</b>	<b>&lt;1.0</b>
<b>Solder temperature test Sold temp.260 ± for 10 sec.</b>	<b>&lt;1.0</b>
<b>Soldering Immerse the pins melt solder at 260 ± +5/-0 ± for 5 sec.</b>	<b>More then 95% of total area of the pins should be covered with solder</b>

**4.MECHANICAL TEST**

<b>Item Test condition</b>	<b>Allowable change of absolute Level in pass band(dB)</b>
<b>Vibration test 600-3300rpm amplitude 1.5mm 3 directions 2 H each</b>	<b>&lt;1.0</b>
<b>Drop test On maple plate from 1m high 3 times</b>	<b>&lt;1.0</b>
<b>Lead pull test Pull with 1 kg force For 30 seconds</b>	<b>&lt;1.0</b>
<b>Lead bend test 90 ± bending.with 500g weigh 2times</b>	<b>&lt;1.0</b>

**5. VOLTAGE DISCHARGE TEST**

<p align="center"><b>Item</b> <b>Test condition</b></p>	<p align="center"><b>Allowable Chang of absolute</b> <b>Level in pass band(dB)</b></p>
<p align="center"><b>Surge test</b> <b>Between any two electrode</b></p> 	<p align="center"><b>&lt;1.0</b></p>

**6.DIMENSION**

