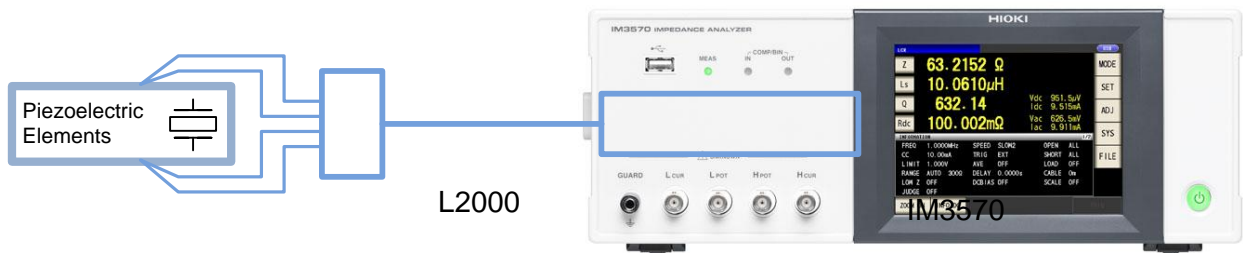


# Test the Characteristics of Piezoelectric Elements at High Speeds

One instrument can perform high-speed continuous measurement and determine acceptance or rejection of the resonance characteristics and capacitance of piezoelectric elements that are used in a variety of applications such as a piezoelectric speaker, crystal earphone, microphone, vibration sensor, pressure sensor, gyro sensor, power generation circuit, drive unit, and inkjet printer.

## ■ Highlights

- One IM3570 Impedance Analyzer performs continuous measurement of the frequency characteristics (in analyzer mode) and capacitance (in LCR mode).
- Continuously measure with the measurement settings for the analyzer and LCR modes that were saved using the Panel Save function.
- Measure in the wide frequency range of 4 Hz to 5 MHz.
- Use the comparator function in LCR mode to determine the capacitance.
- Use the peak decision function in analyzer mode to decide on the acceptance or rejection of the resonance state.
- The peak decision determines whether the peak value is within the set decision area (upper/lower/left/right limits).
- Use the frequency sweep function in analyzer mode to measure the frequency characteristic at a high speed of 1ms per point and display the measurement results in graph format on the screen.
- Check the measurement results in LCR mode and the decision results in LCR and analyzer modes on the continuous measurement results screen.
- Check the measurement results in analyzer mode by pressing the **GRAPH** key on the continuous measurement results screen.



Frequency characteristics measurement (Analyzer mode)

&

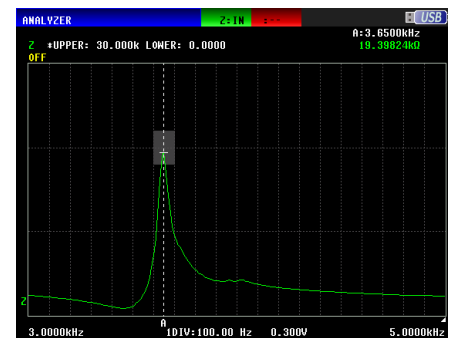
Cs measurement (LCR mode)



No.	PARA1	PARA2	JUDGE
001	Z: SWEEP	: SWEEP	NG --
002	C: 19.9318nF	:	IN --

**GRAPH**

Screen example of the continuous measurement results and the decision results



Screen example of peak measurement (Analyzer mode)

## Products used

- IMPEDANCE ANALYZER IM3570
- 4-TERMINAL PROBE L2000