

Measuring Circuit

1. Frequency Measuring Method

Frequency means the load resonance frequency (Lower frequency of the two given when the electrical impedance of the component becomes resistant near its resonance point) measured by network analyzer (KEYSIGHT E5100A or the equivalent) and the circuit in Figure 1. DUT is shown in Figure 2, and the value of a load capacitor (C_s) is referred to the item of specification value. The load resonance frequency is measured at drive level of $30\mu\text{W}$. Measured frequency may be changed by using different measurement method.

2. Equivalent Series Resistance

The equivalent series resistance (ESR) is measured by network analyzer (KEYSIGHT E5100A or equivalent) and the circuit in Figure 1. DUT is shown in Figure 3.

3. Measuring Condition

Standard conditions for the measurement shall be $+25\pm 3^\circ\text{C}$ temperature and the humidity of 45 to 85%R.H.

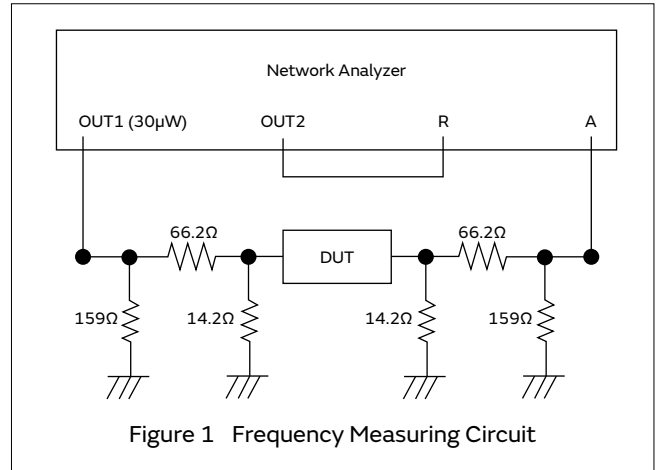


Figure 1 Frequency Measuring Circuit

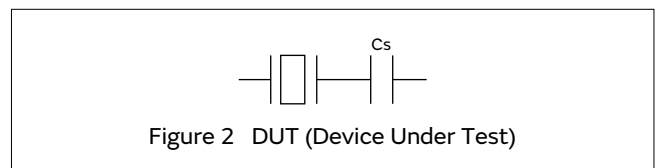


Figure 2 DUT (Device Under Test)

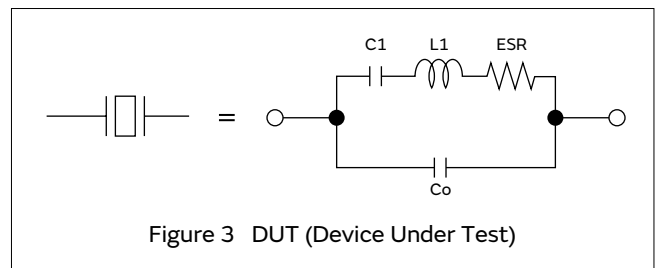


Figure 3 DUT (Device Under Test)