Ceramic Resonator kHz Lead Type Series (375 kHz to 1250 kHz)

Test Item	Condition & Requirement
1. Storage in High	After being placed in a chamber with $+85 \pm 2$ for 500 hours and
Temperature	then being placed in room temperature for 24 hour, resonator
	shall be measured.
	=> The measured values shall meet Table 1.
2. Storage in Low	After being placed in a chamber with -40 ± 2 for 500 hours
Temperature	and then being placed in room temperature for 24 hour, resonator
	shall be measured.
	=> The measured values shall meet Table 1.
3. Humidity	After being placed in a chamber within +90 to 95% R. H. at +40 \pm 2
	for 500 hours and then being placed in room temperature for 24 hour, resonator shall be measured.
	=> The measured values shall meet Table 1.
4. Heat Shock	After being kept at room temperature, the resonator shall be placed
	at temperature of -55 . After 30 minutes at this temperature
	resonator shall be immediately placed at temperature of +85 .
	After 30 minutes at this temperature resonator shall be returned
	to -55 again. After five above cycles, the resonator shall be
	returned to room temperature for at least 24 hour.
	=> The measured values shall meet Table 1.
5. Random Drop	Resonator shall be measured after 3 times random drops from the height
	of 75 cm on concrete floor.
	=> No visible damage and the measured values shall meet Teble 1.
6. Vibration	Resonator shall be measured after being applied vibration of amplitude
	to 1.5mm with 10 to 55 Hz band of vibration frequency to each of
	a perpendicular directions for 2 Hours.
	=> No visible damage and the measured values shall meet Table 1.
7. Resistance to	Lead terminals are immersed up to 1.5 mm of resonator's body in solder
soldering Heat	bath of 350 ± 10 for 3 seconds or 260 ± 5 for 10 seconds, and
-	then resonator shall be measured after being placed in natural
	condition for 24 hour.
	=> The measured values shall meet Table 1.

Test Item	Condition of Test	
8. Solderability	Lead terminals are immersed in resin for 5 seconds and then immersed	
	in soldering bath of 230 \pm 5 for 3 \pm 0.5 seconds.	
	=> 95 % min. lead terminals shall be wet with solder.	
9. Terminal Strength		
(1) Axial Direction	After force 10, seconds of 1.0 kg is applied to each terminal in axial direction, resonator shall be measured.	
(2) folding	After lead terminals shall be fixed at 2mm from resonator's body, they shall be folded up to 90° from their axial direction and folded back to -90°, then folded back to their axial direction. The speed of folding shall be each 3 seconds. => No visible damage and the measured values shall meet Table 1. No cutting off.	

TABLE 1

Measurements	Requirements
Oscillating Frequency	± 0.2 % max.(from initial value)
Resonant Resistance	30 max.
Shunt Capacitance	± 10 % max.