

DATA

FOR

METALLIZED PLASTIC FILM CAPACITOR

チップ積層コンデンサ

〔NSPC 16V (X) type〕

SAMPLES (試料) : NSPC332J16A3X (DC 16V, 0.0032 μ F)
 NSPC103J16A4X (DC 16V, 0.01 μ F)
 NSPC104J16C7X (DC 16V, 0.1 μ F)

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Fig. 1

温度特性 (TEMPERATURE CHARACTERISTIC)

SAMPLE	n	TEST CONDITION
○—○ NSPC332J16A3X	12	Temperature : -55~125°C
●—● NSPC103J16A4X	12	
×—× NSPC104J16C7X	12	

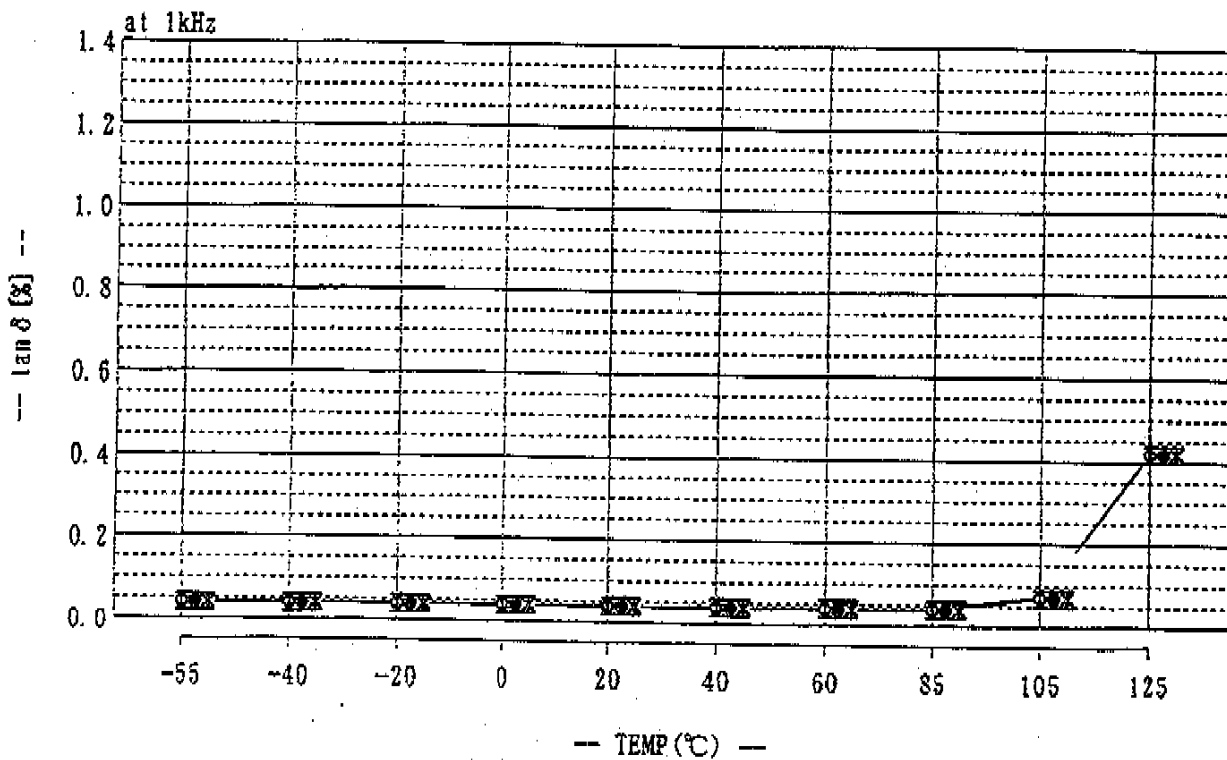
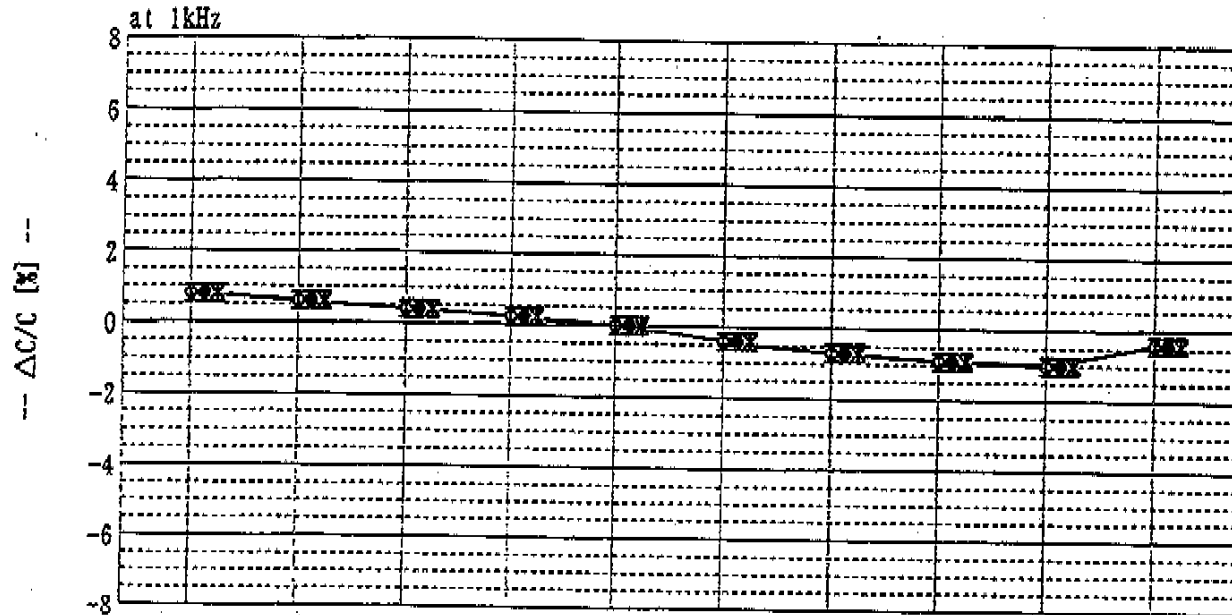


Fig.2

温度特性 (TEMPERATURE CHARACTERISTIC)

SAMPLE	n	TEST CONDITION
○—○ NSPC332J16A3X	12	Temperature : -55~125°C
●—● NSPC103J16A4X	12	
x—x NSPC104J16C7X	12	

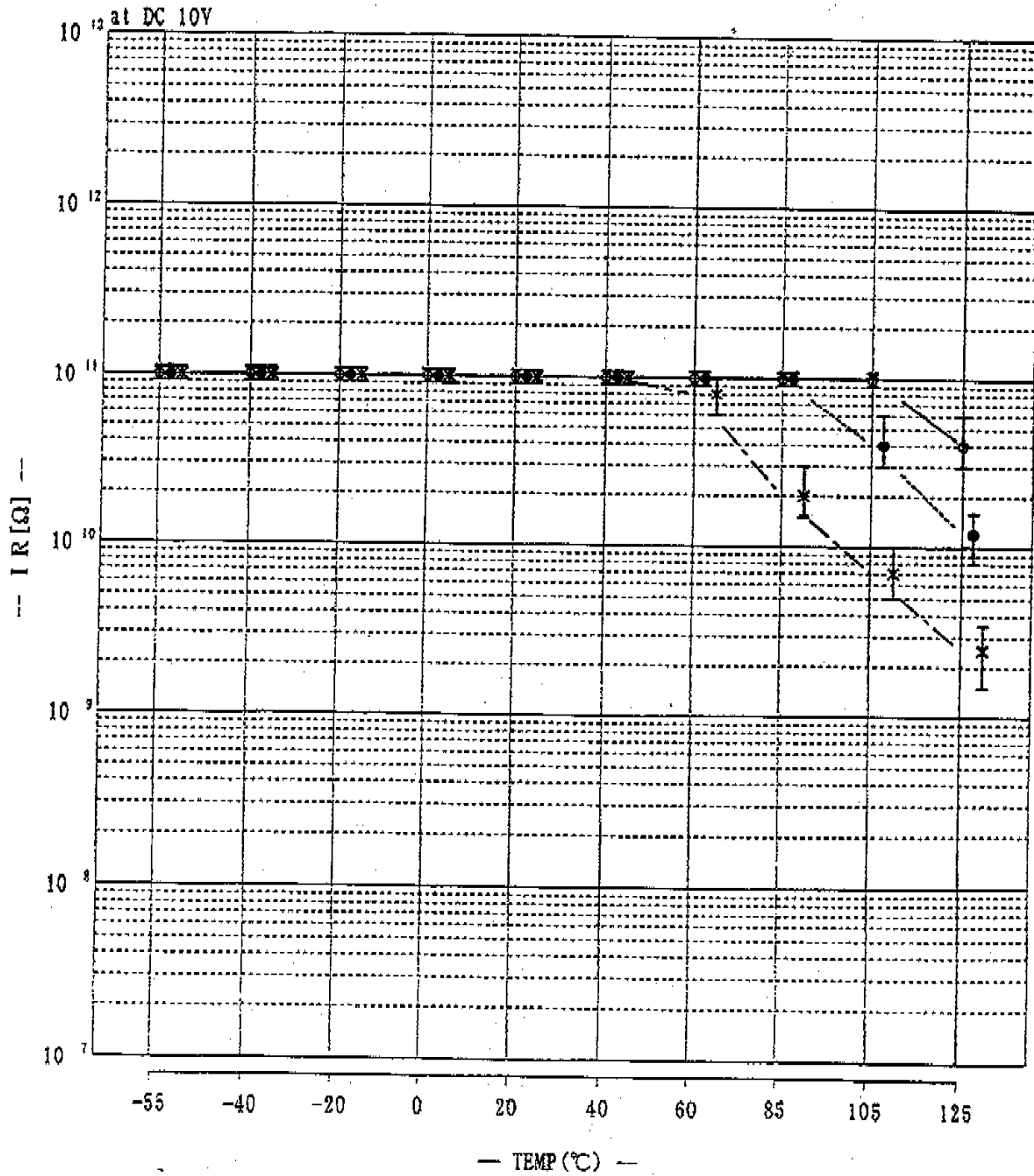
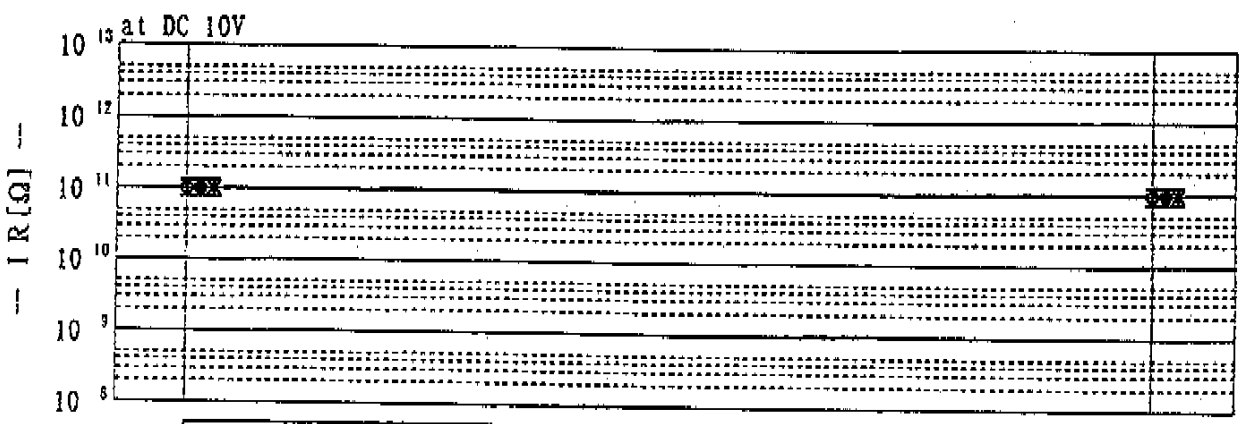
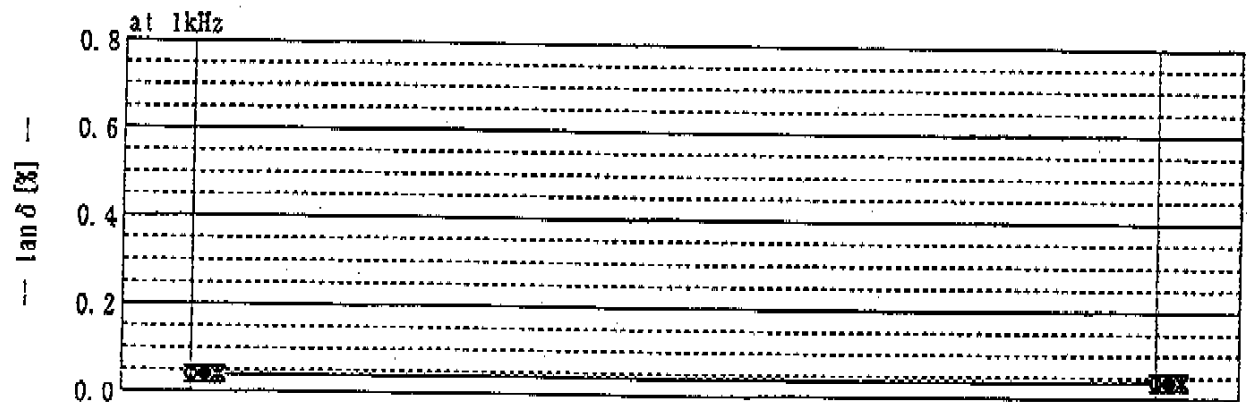
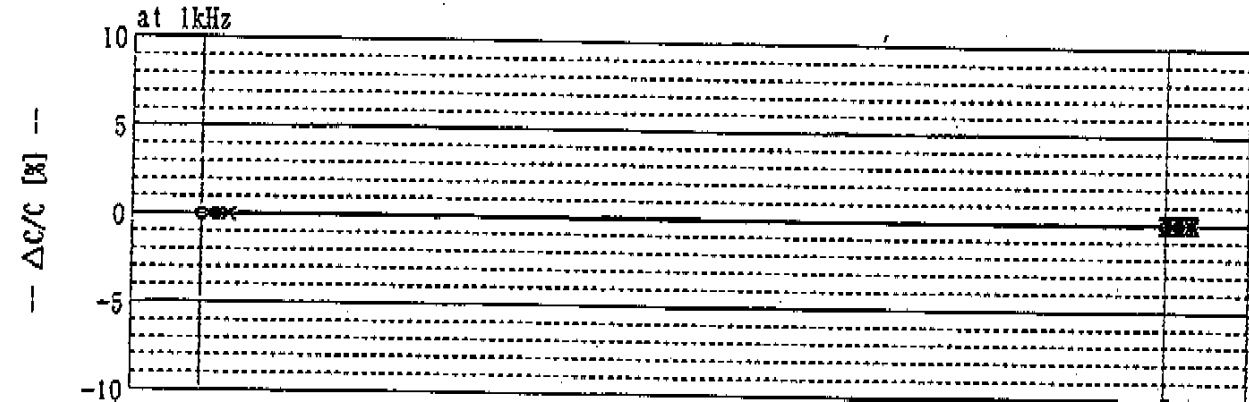


Fig. 3

SOLDERING HEAT RESISTANCE TEST (REFLOW METHOD)

SAMPLE	n	TEST CONDITION
○—○ NSPC332J16A3X	12	Reflow to FIG.
●—● NSPC103J16A4X	12	(Reflow temperature profile)
×—× NSPC104J16C7X	12	



Initial

After test

Fig. 4

耐振性試験 (VIBRATION TEST)

SAMPLE	n	TEST CONDITION
○—○ NSPC332J16A3X	12	Vibration frequency:10~55 Hz (10-55-10 Hz/for 1min)
●—● NSPC103J16A4X	12	Total amplitude : 1.5mm 3directions (X.Y.Z)each 2hours
×—× NSPC104J16C7X	12	Attentions:After soldering on Glass epoxy P.W.B

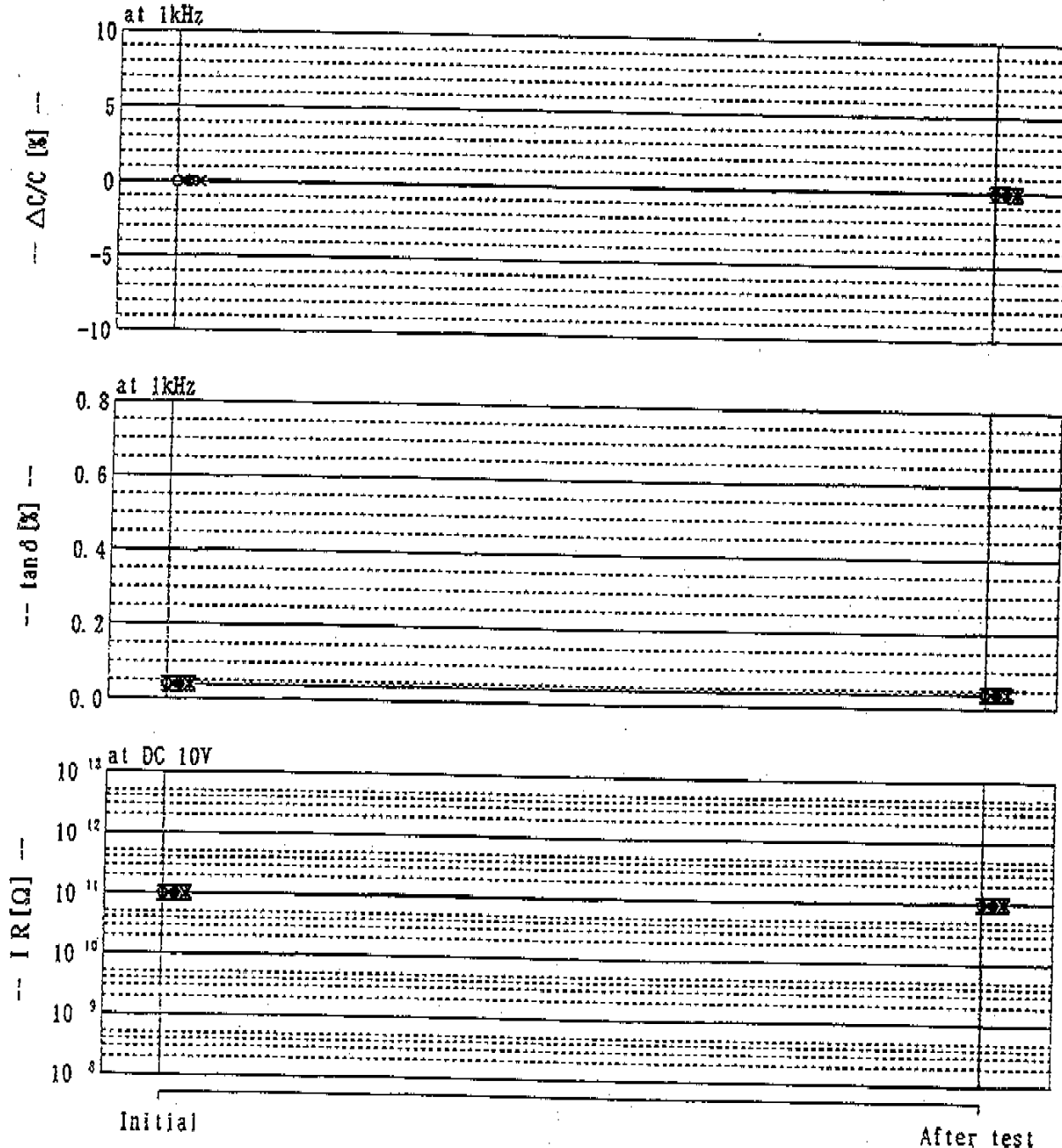
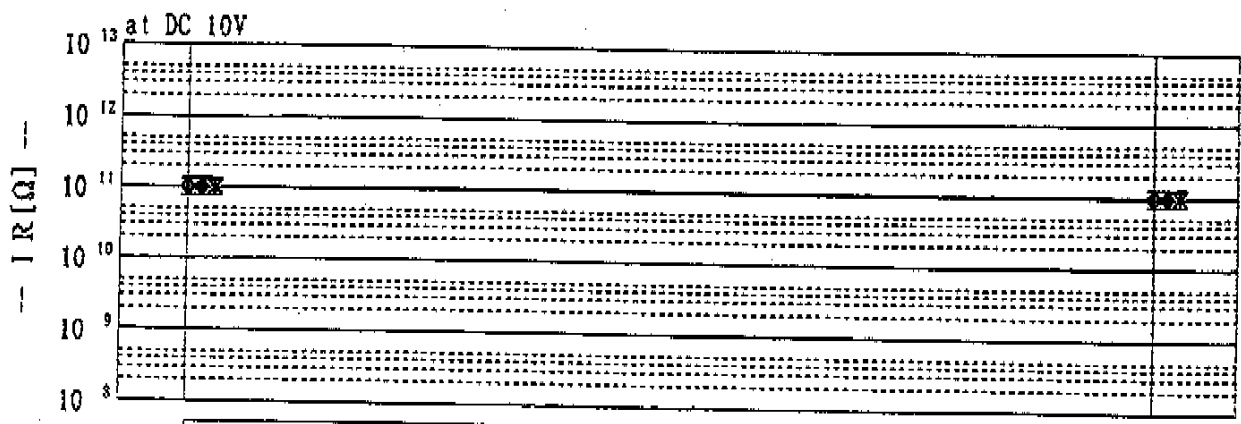
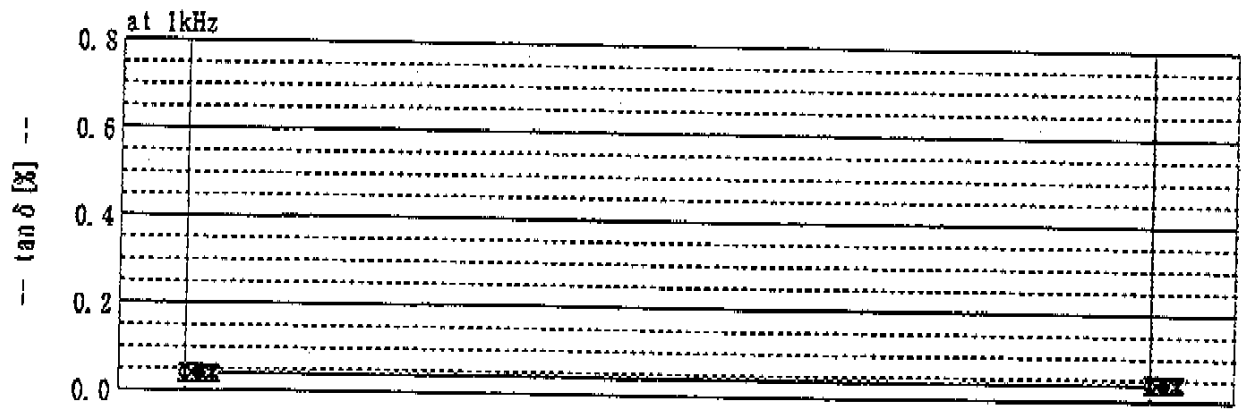
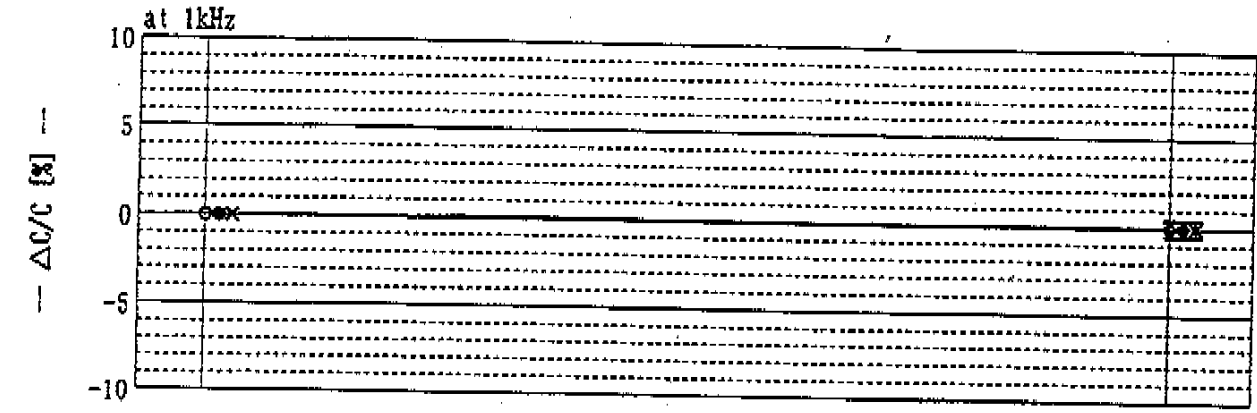


Fig. 5 温度サイクル試験 (THERMAL CYCLING TEST)

SAMPLE	n	TEST CONDITION
○-○ NSPC332J16A3X	12	
●-● NSPC103J16A4X	12	
×-× NSPC104J16C7X	12	



Initial After test

Fig. 6

昇圧破壊試験 (DC) BREAKDOWN VOLTAGE TEST (DC)

SAMPLE	n	TEST CONDITION
○—○ NSPC332J16A3X	12	Temperature : RT Slow-up voltage Speed : 10 v/s Cut-off current : 5 mA
●—● NSPC103J16A4X	12	
x—x NSPC104J16C7X	12	

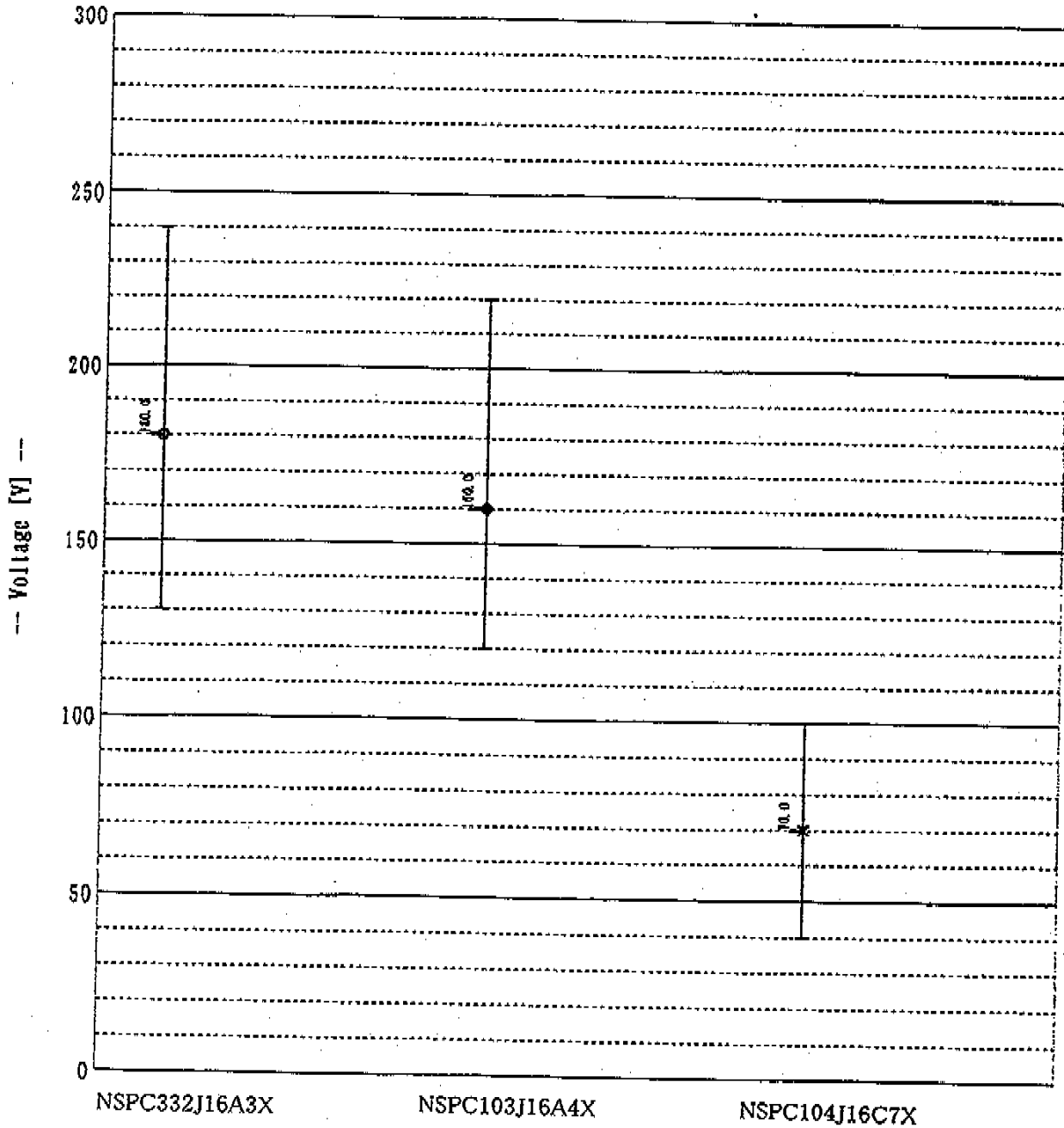


Fig. 7 High Temperature Loading Test

SAMPLE	n	TEST CONDITION
○—○ NSPC332J16A3X	12	Temperature : 125±2 [°C] Voltage : Rated Voltage×1.25
●—● NSPC103J16A4X	12	
×—× NSPC104J16C7X	12	

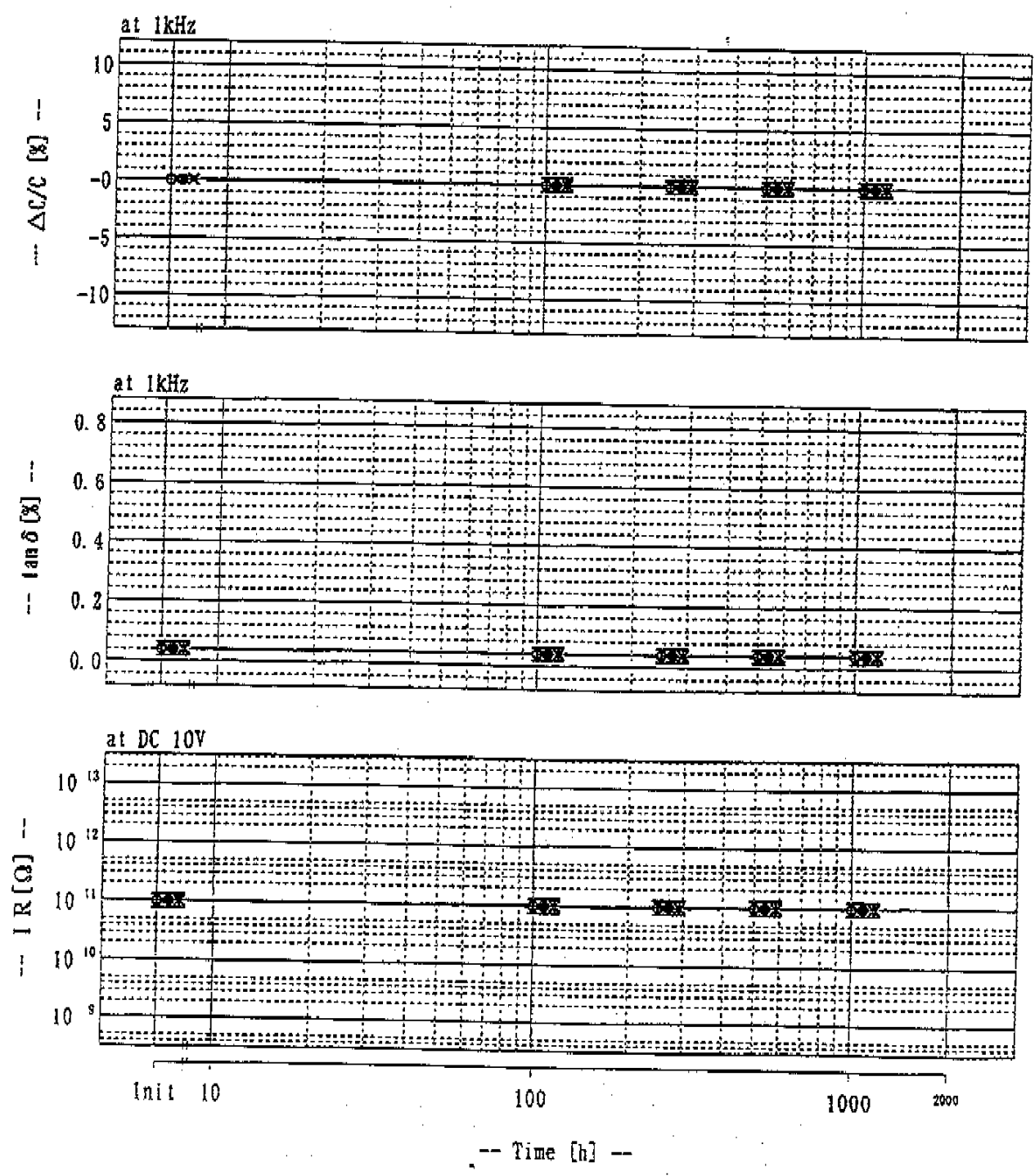


Fig.8 Moisture Resistance Loading Test I

SAMPLE	n	TEST CONDITION
○—○ NSPC332J16A3X	12	Temperature : 40±2 [°C] Humidity : 90~95 [%RH] Voltage : DC 16 [V]
●—● NSPC103J16A4X	12	
×—× NSPC104J16C7X	12	

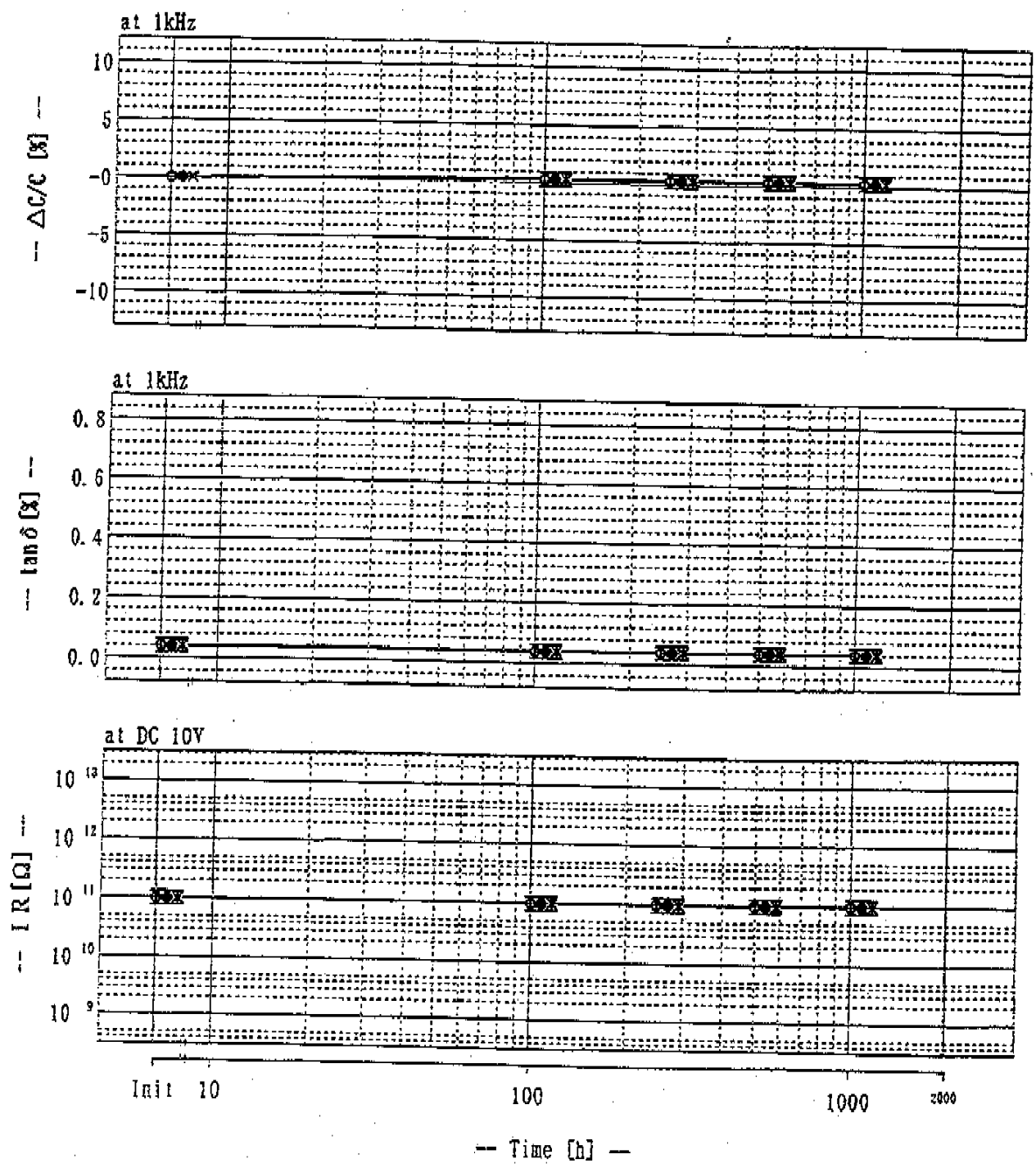


Fig. 7 Moisture Resistance Loading Test II

SAMPLE	n	TEST CONDITION
○—○ NSPC332J16A3X	12	Temperature : 60 ± 2 [°C] Humidity : 90~95 [%RH] Voltage : DC 16[V]
●—● NSPC103J16A4X	12	
x—x NSPC104J16C7X	12	

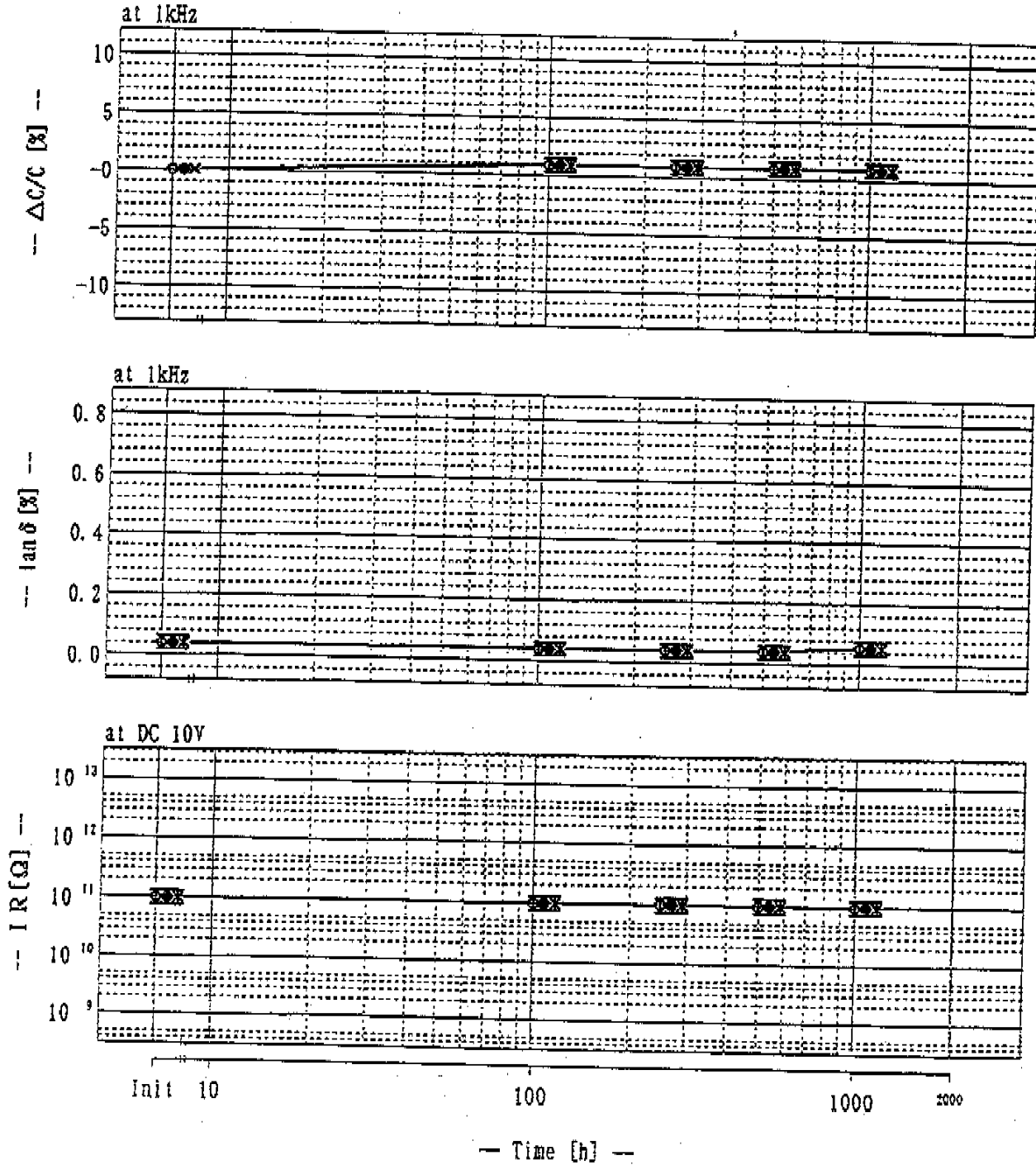


Fig.10 Moisture Resistance Loading Test III

SAMPLE	n	TEST CONDITION
○—○ NSPC332J16A3X	12	Temperature : 85±2 [°C] Humidity : 85±2 [%RH] Voltage : DC 16[V]
●—● NSPC103J16A4X	12	
x—x NSPC104J16C7X	12	

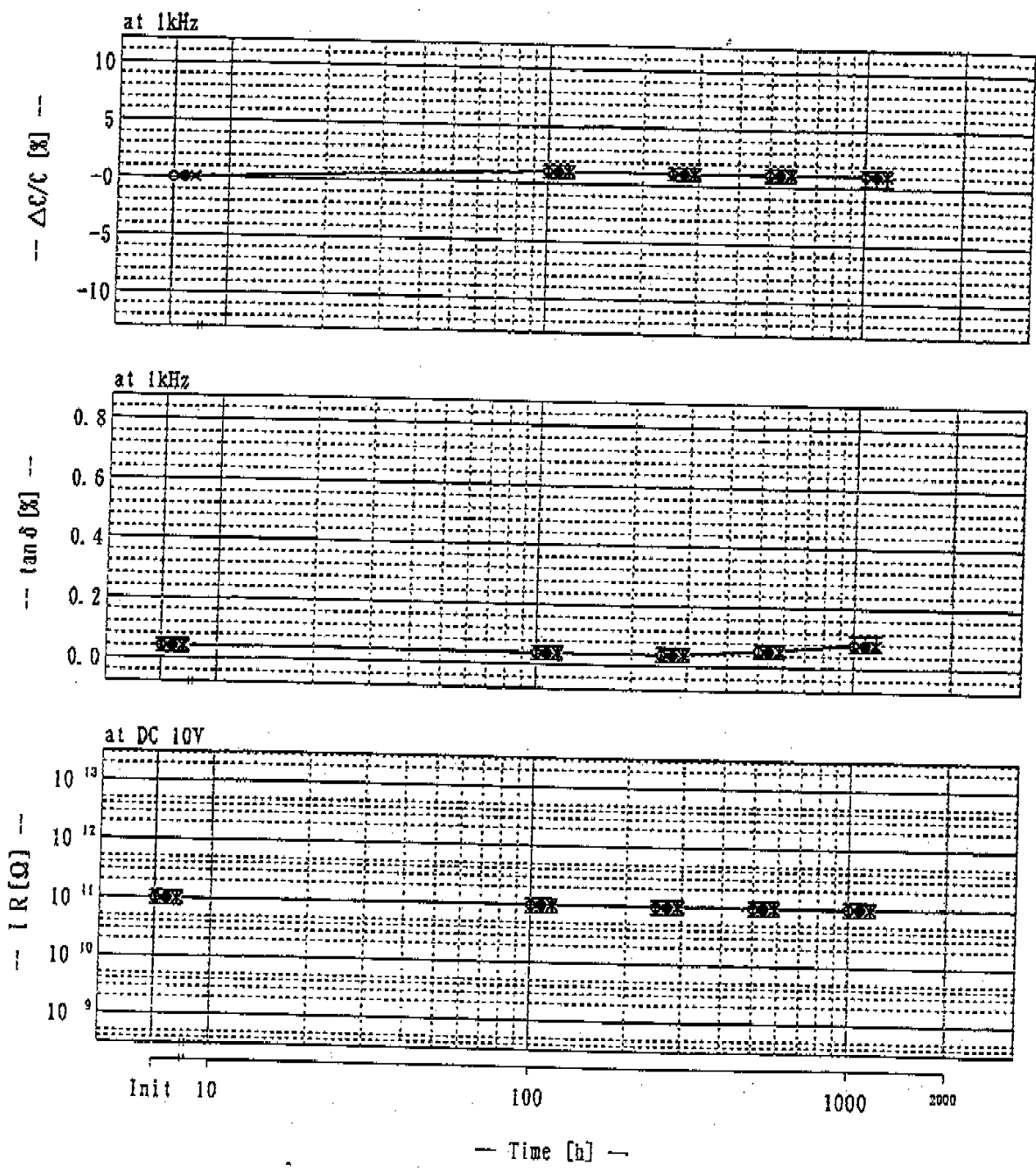
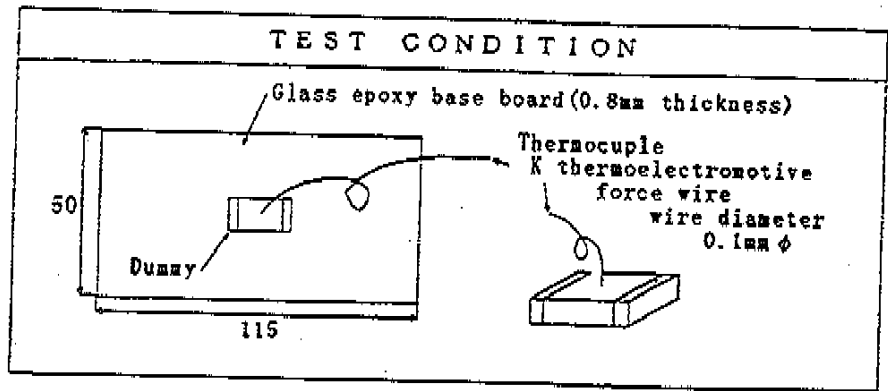


FIG. // Appendix : Reflow Soldering Profile



temperature of the capacitor surface

