



Reliability Data

Snap-In Aluminum Electrolytic Capacitors

SMM series

Test:

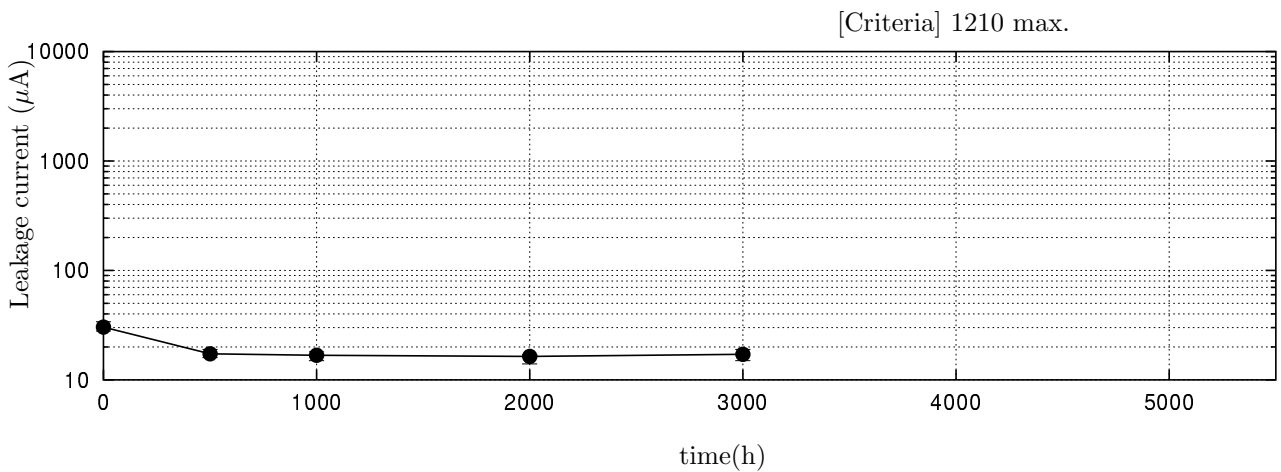
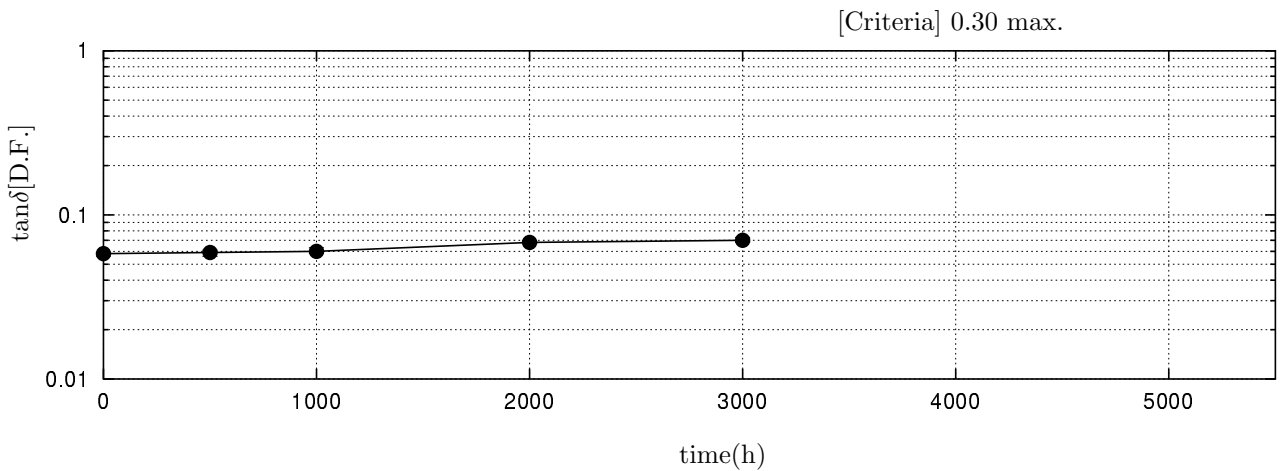
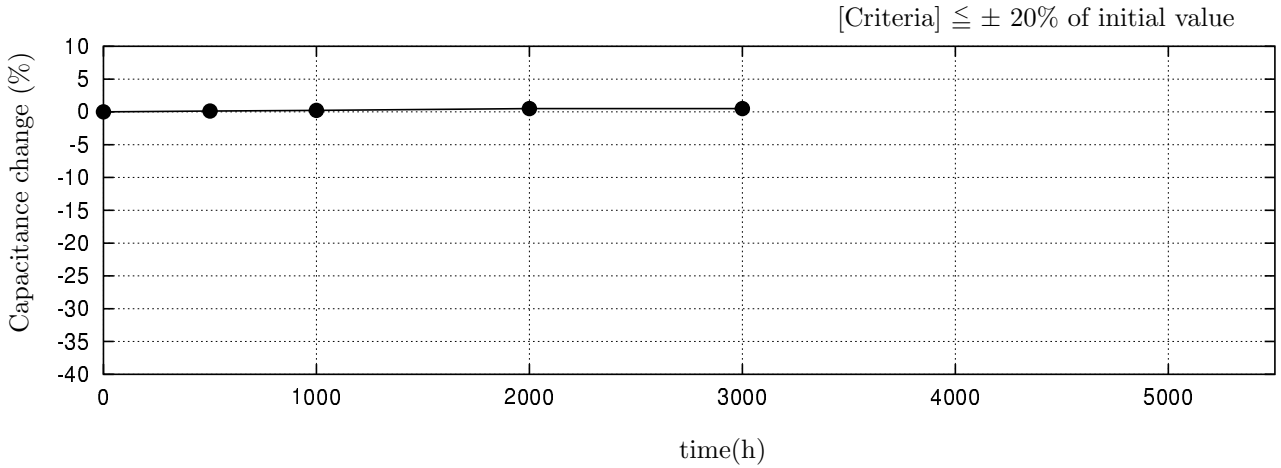
Endurance
Shelf life
Temperature Characteristics
Frequency Characteristics

Item:

ESMM201VSN821MQ35S (200V820 μ F, ϕ 25.4 \times 35L)
ESMM401VSN271MQ40S (400V270 μ F, ϕ 25.4 \times 40L)
ESMM451VSN181MQ35S (450V180 μ F, ϕ 25.4 \times 35L)

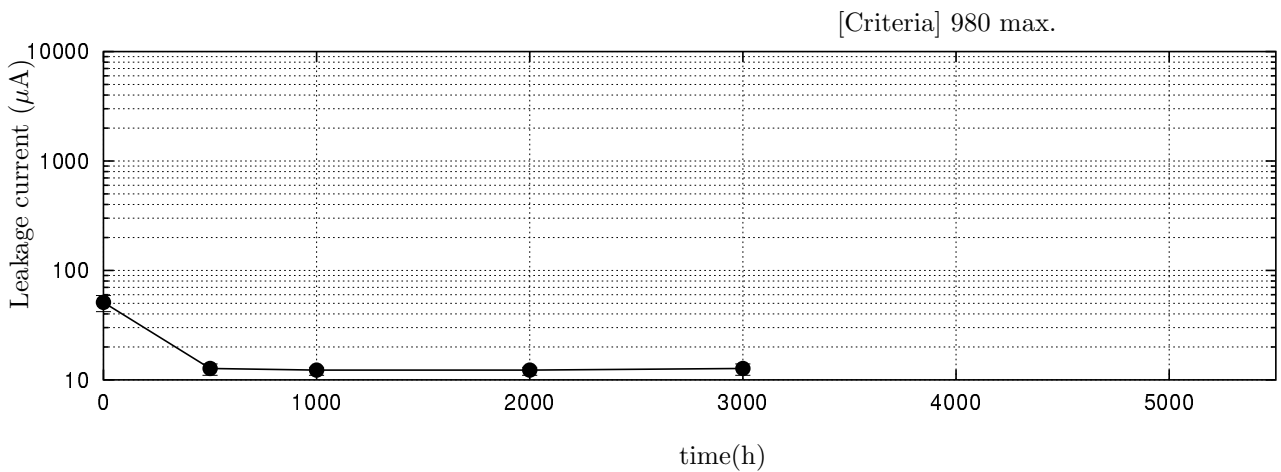
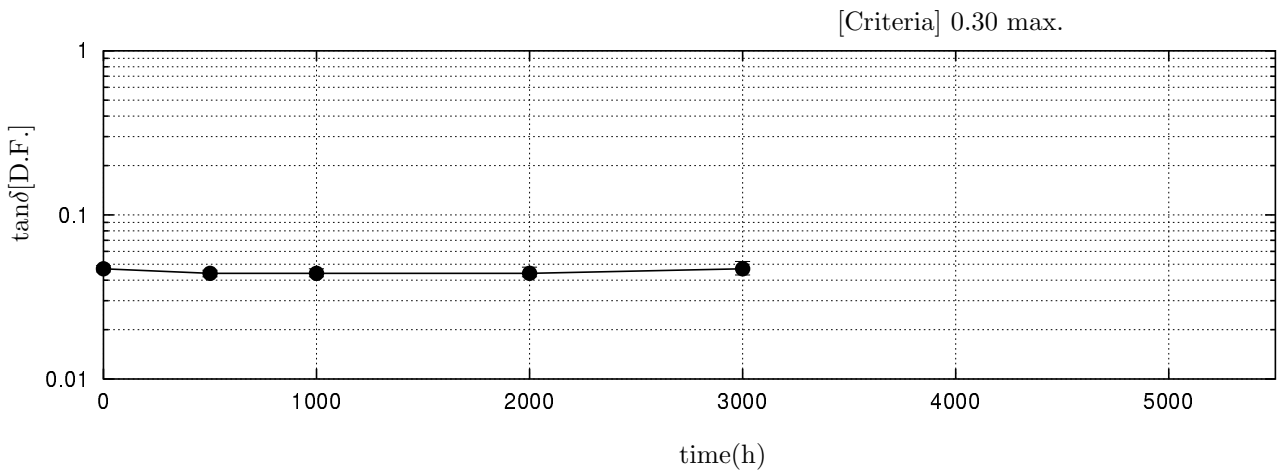
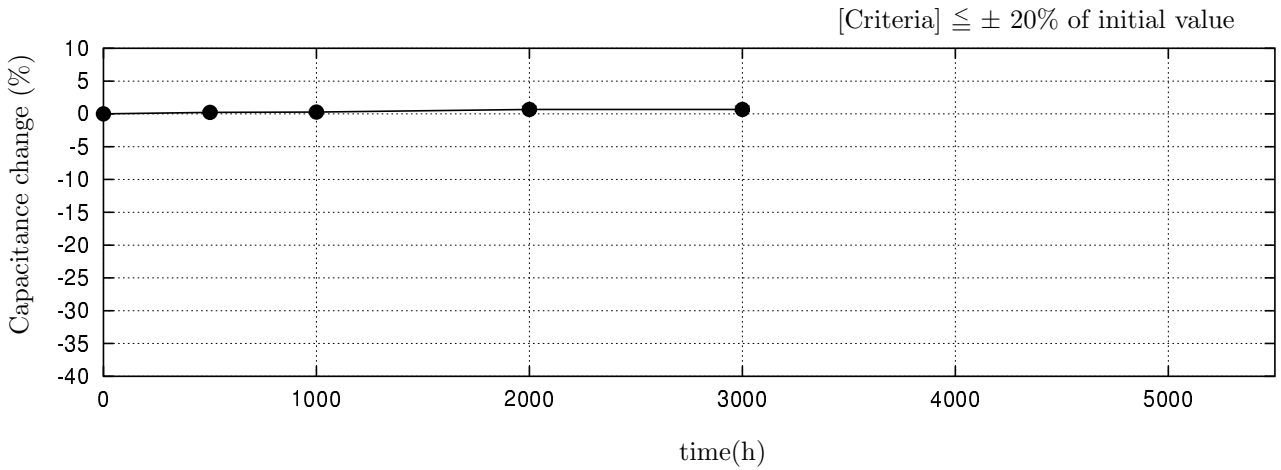
Aluminum Electrolytic Capacitor Reliability data

Test name		Endurance			
Test temp.	85 (°C)	Leakage Current (Volt)	200 (V)	Measurement LCR meter	4284A
Applied Voltage	(V)	Leakage Current (Time)	5 (min)	Measurement Freq.	120 (Hz)
Ripple Current	2.79 (Arms)	Leakage Current (Temp.)	20 (°C)	Measurement Temp.	20 (°C)
Ripple freq.	120 (Hz)			Specified Period of Time	3000 (h)
Mark	Part No.	Rated Voltage(V)	Nominal Capacitance(μF)	Case Size(φ × L)mm	Tested qty(pcs)
●	ESMM201VSN821MQ35S	200	820	φ 25.4×35 L	6



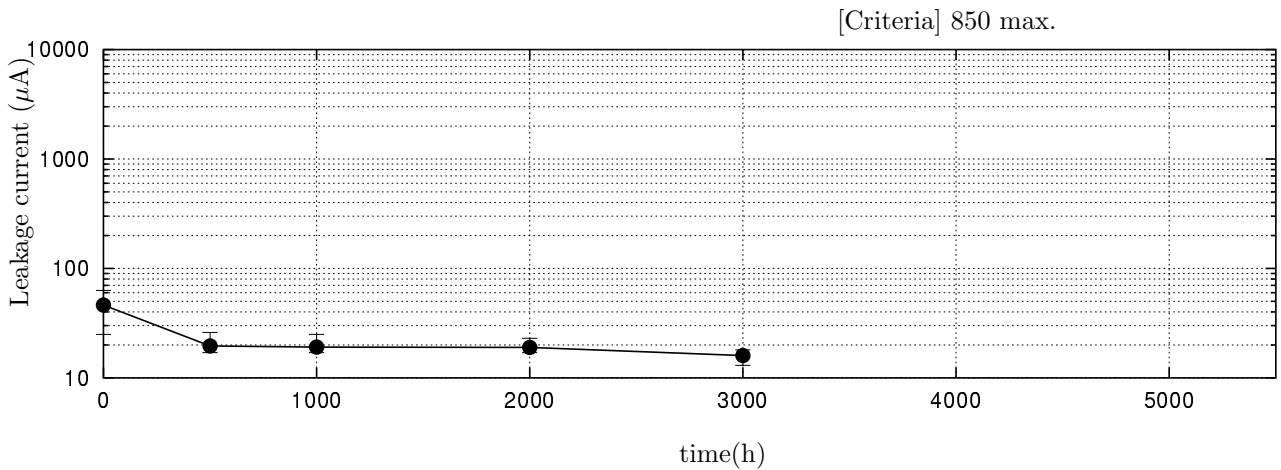
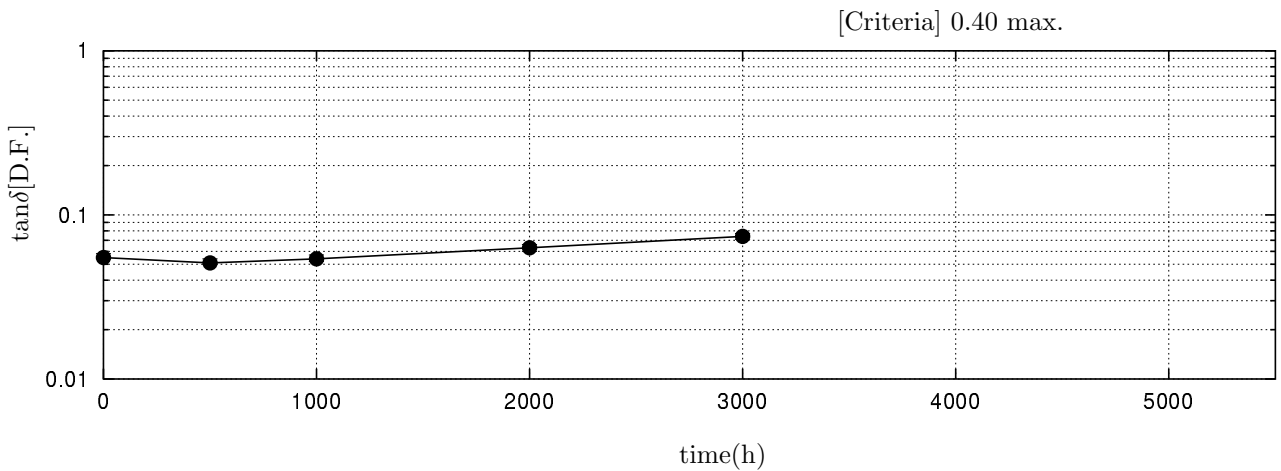
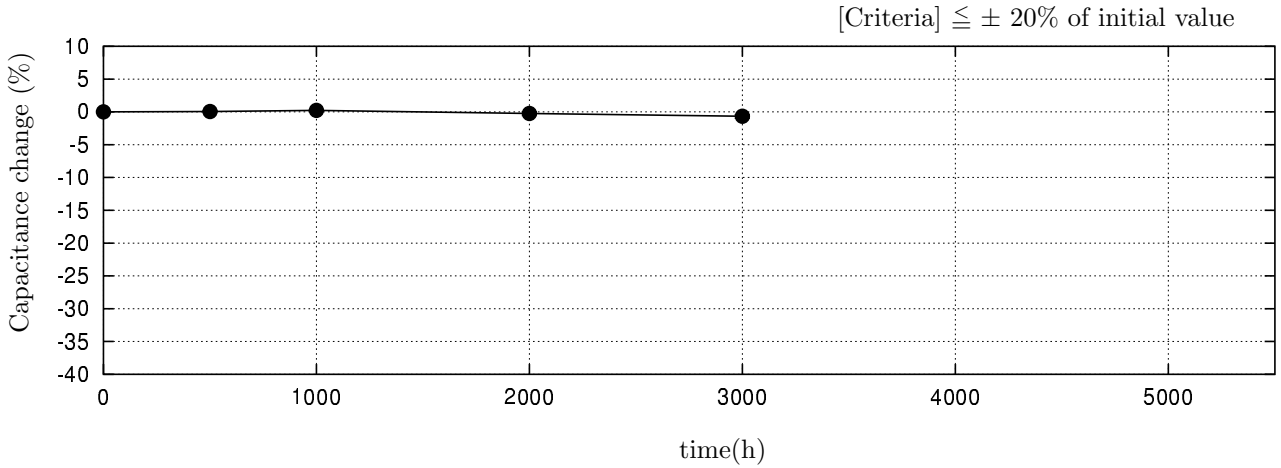
Aluminum Electrolytic Capacitor Reliability data

Test name		Endurance			
Test temp.	85 (°C)	Leakage Current (Volt)	400 (V)	Measurement LCR meter	4284A
Applied Voltage	(V)	Leakage Current (Time)	5 (min)	Measurement Freq.	120 (Hz)
Ripple Current	1.79 (Arms)	Leakage Current (Temp.)	20 (°C)	Measurement Temp.	20 (°C)
Ripple freq.	120 (Hz)			Specified Period of Time	3000 (h)
Mark	Part No.	Rated Voltage(V)	Nominal Capacitance(μF)	Case Size(φ × L)mm	Tested qty(pcs)
●	ESMM401VSN271MQ40S	400	270	φ 25.4×40 L	6



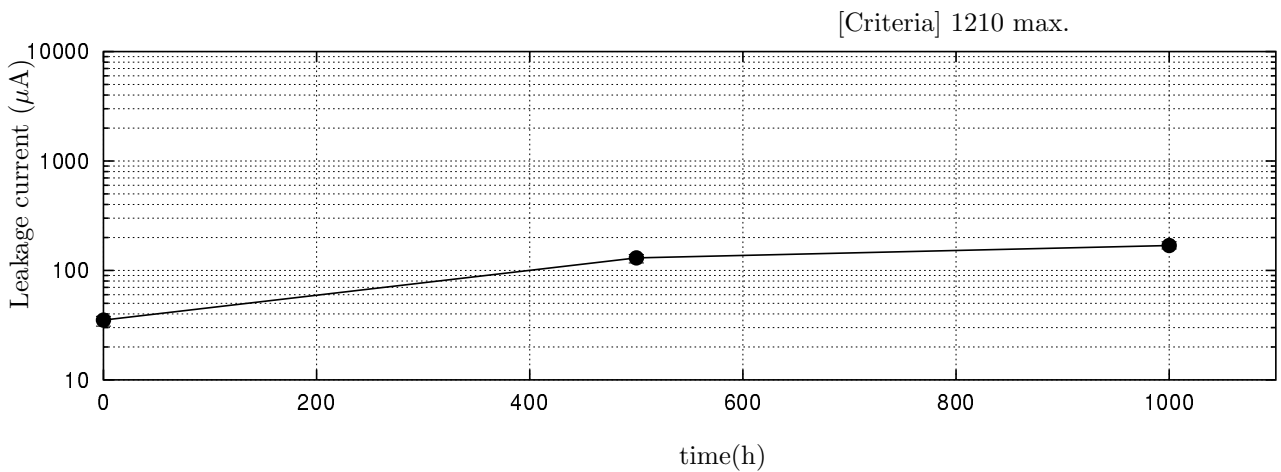
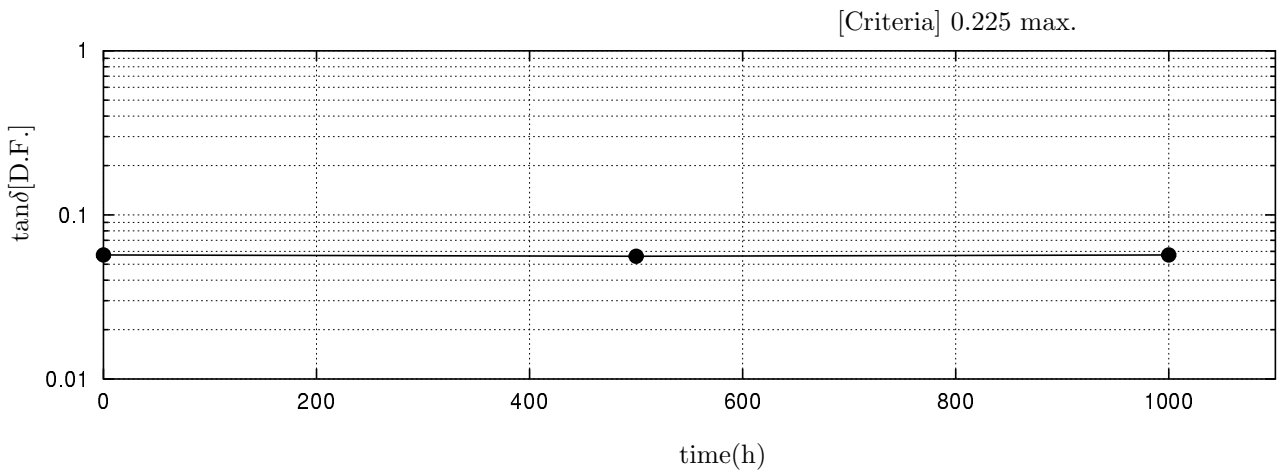
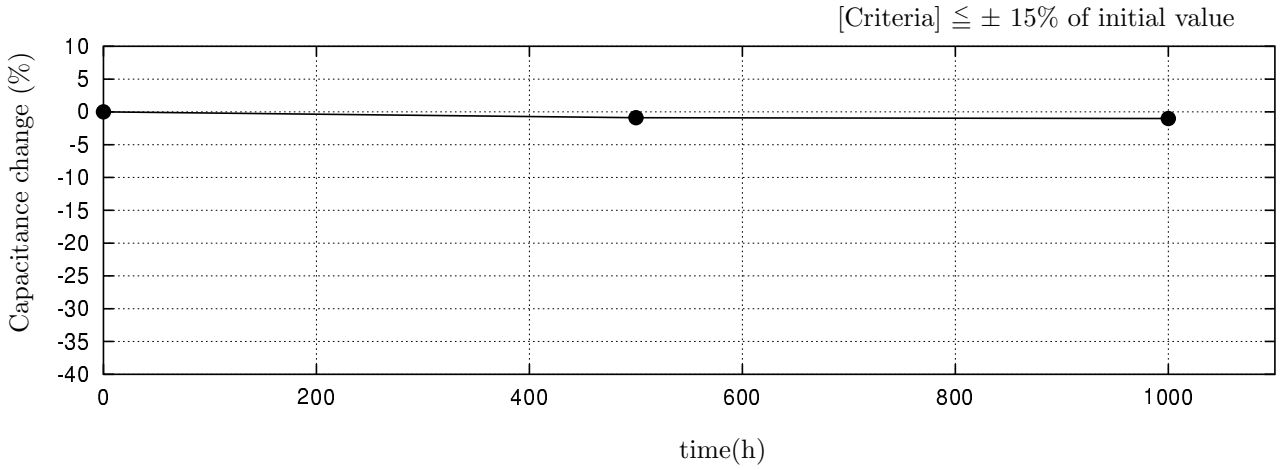
Aluminum Electrolytic Capacitor Reliability data

Test name		Endurance			
Test temp.	85 (°C)	Leakage Current (Volt)	450 (V)	Measurement LCR meter	4284A
Applied Voltage	(V)	Leakage Current (Time)	5 (min)	Measurement Freq.	120 (Hz)
Ripple Current	1.40 (Arms)	Leakage Current (Temp.)	20 (°C)	Measurement Temp.	20 (°C)
Ripple freq.	120 (Hz)			Specified Period of Time	3000 (h)
Mark	Part No.	Rated Voltage(V)	Nominal Capacitance(μF)	Case Size(φ × L)mm	Tested qty(pcs)
●	ESMM451VSN181MQ35S	450	180	φ 25.4×35 L	6



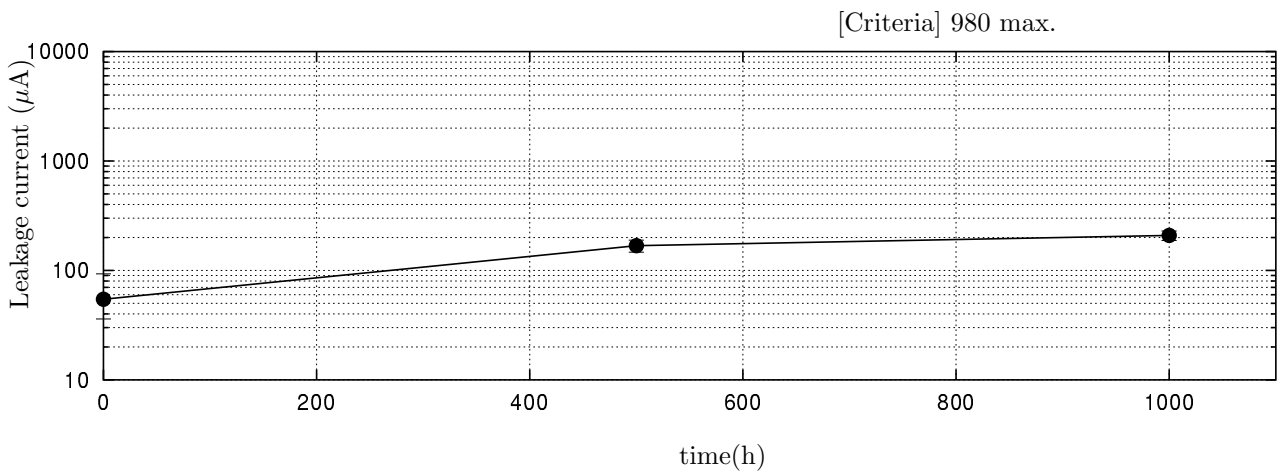
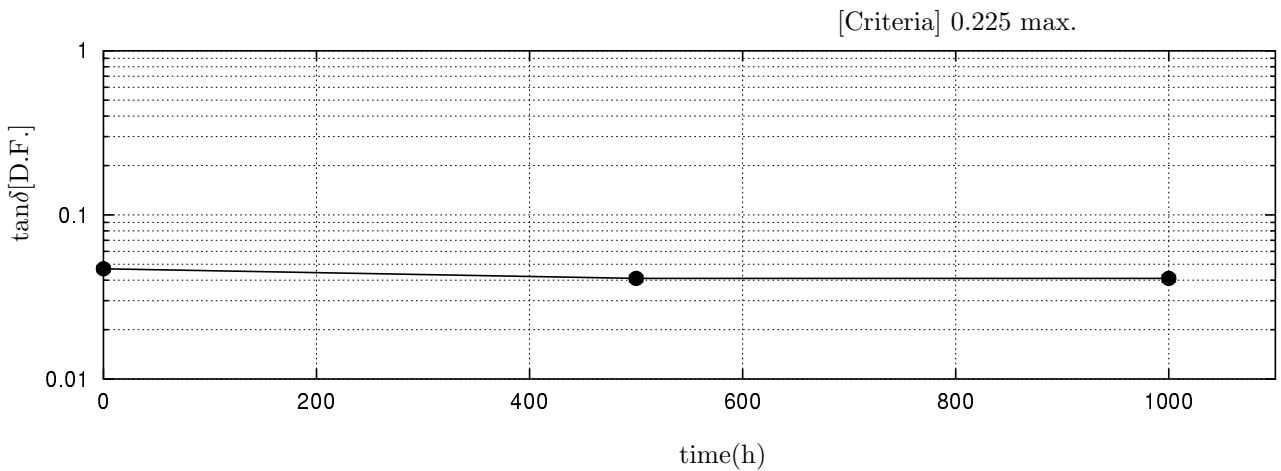
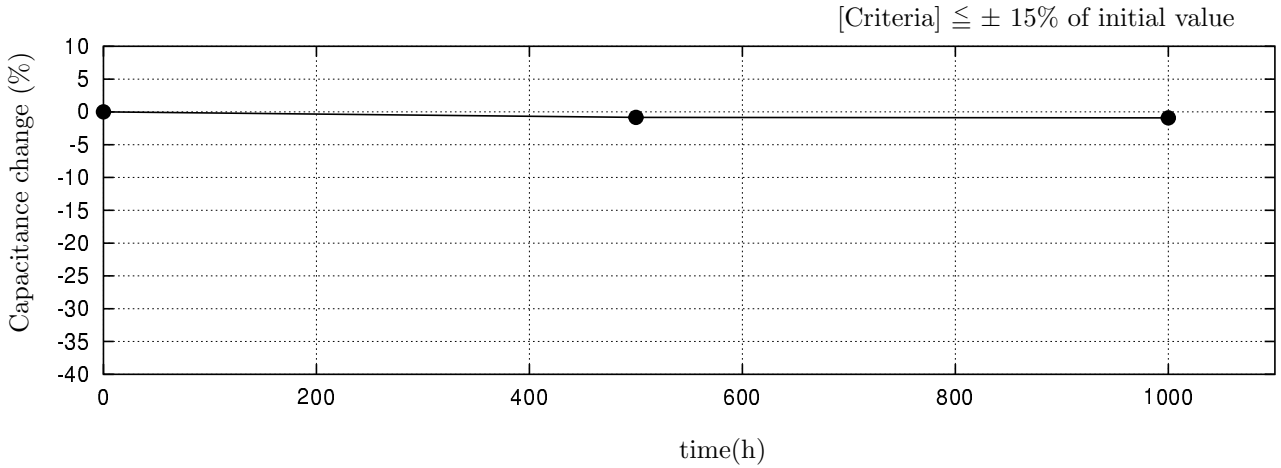
Aluminum Electrolytic Capacitor Reliability data

Test name		Shelf life			
Test temp.	85 (°C)	Leakage Current (Volt)	200 (V)	Measurement LCR meter	4284A
Applied Voltage	(V)	Leakage Current (Time)	5 (min)	Measurement Freq.	120 (Hz)
Ripple Current	(Arms)	Leakage Current (Temp.)	20 (°C)	Measurement Temp.	20 (°C)
Ripple freq.	(Hz)			Specified Period of Time	1000 (h)
Mark	Part No.	Rated Voltage(V)	Nominal Capacitance(μF)	Case Size(φ × L)mm	Tested qty(pcs)
●	ESMM201VSN821MQ35S	200	820	φ 25.4×35 L	10



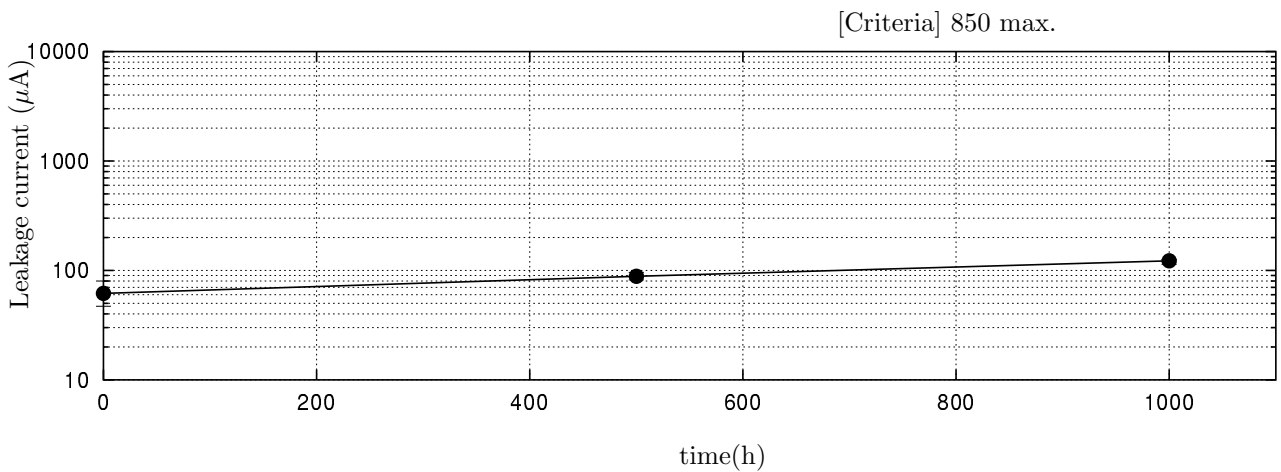
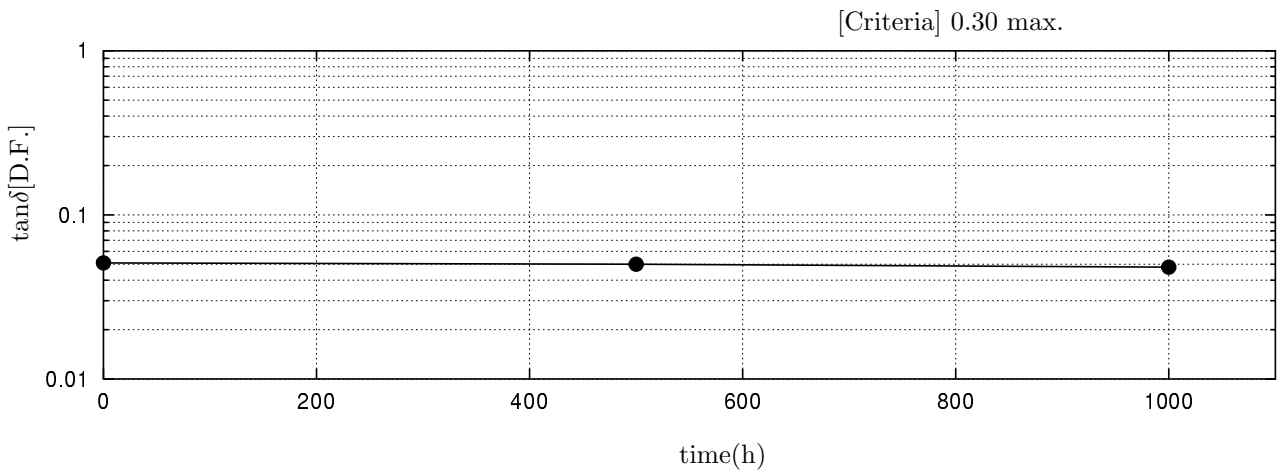
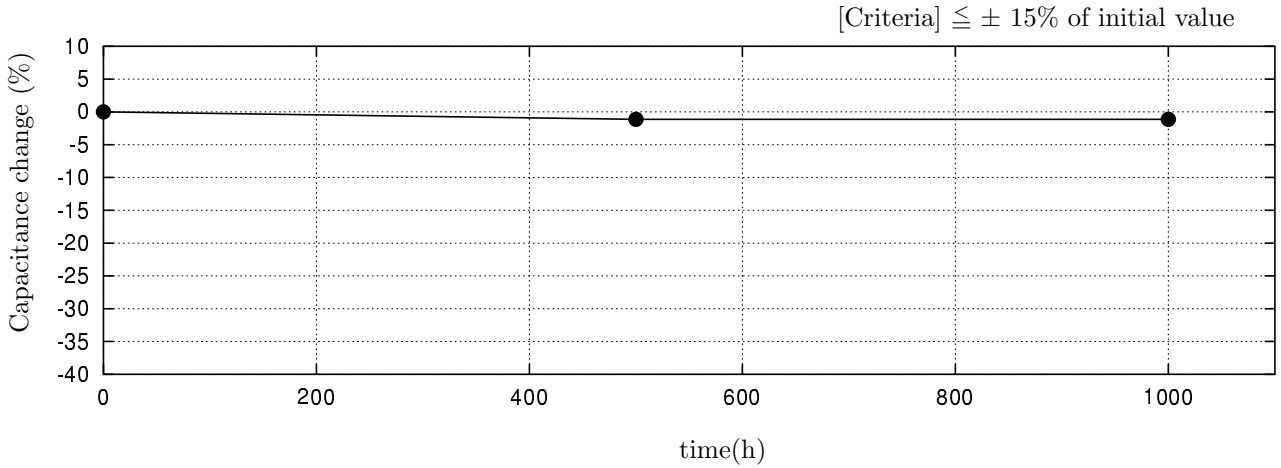
Aluminum Electrolytic Capacitor Reliability data

Test name		Shelf life			
Test temp.	85 (°C)	Leakage Current (Volt)	400 (V)	Measurement LCR meter	4284A
Applied Voltage	(V)	Leakage Current (Time)	5 (min)	Measurement Freq.	120 (Hz)
Ripple Current	(Arms)	Leakage Current (Temp.)	20 (°C)	Measurement Temp.	20 (°C)
Ripple freq.	(Hz)			Specified Period of Time	1000 (h)
Mark	Part No.	Rated Voltage(V)	Nominal Capacitance(μF)	Case Size(φ × L)mm	Tested qty(pcs)
●	ESMM401VSN271MQ40S	400	270	φ 25.4×40 L	10



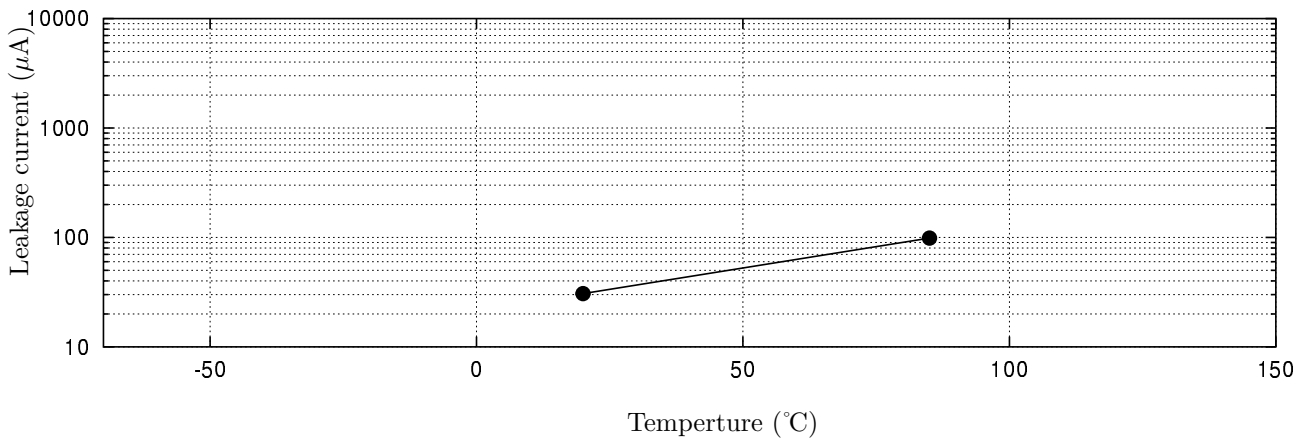
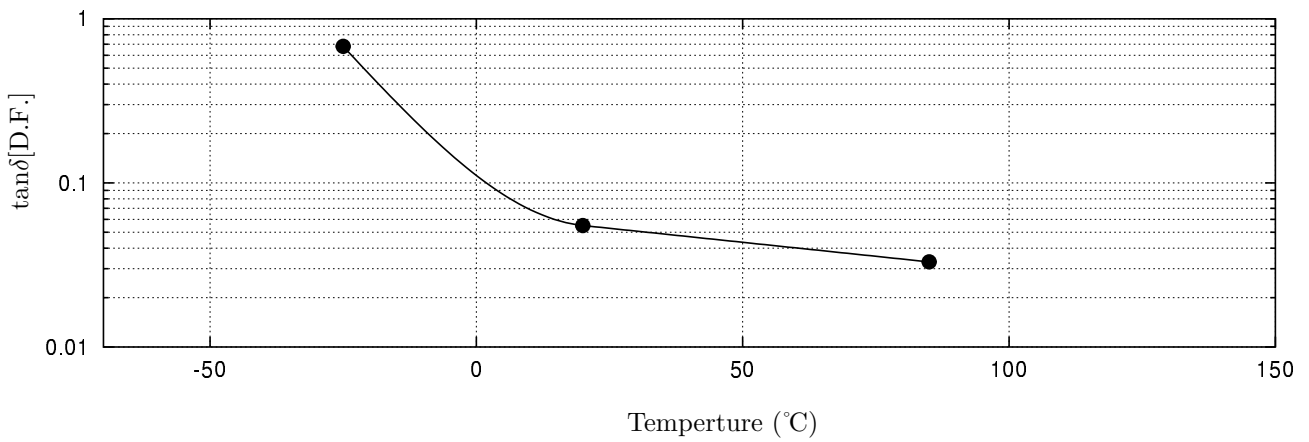
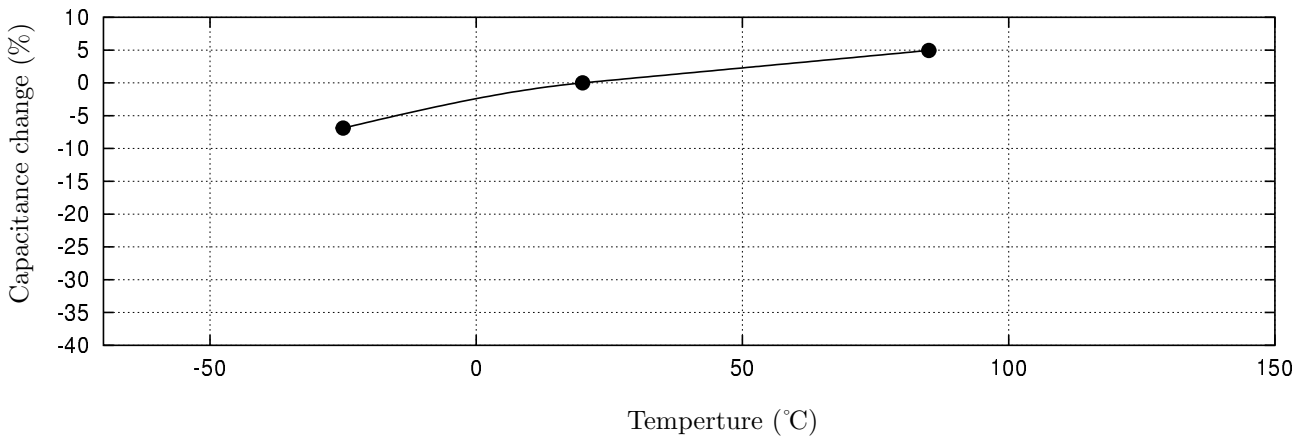
Aluminum Electrolytic Capacitor Reliability data

Test name		Shelf life			
Test temp.	85 (°C)	Leakage Current (Volt)	450 (V)	Measurement LCR meter	4284A
Applied Voltage	(V)	Leakage Current (Time)	5 (min)	Measurement Freq.	120 (Hz)
Ripple Current	(Arms)	Leakage Current (Temp.)	20 (°C)	Measurement Temp.	20 (°C)
Ripple freq.	(Hz)			Specified Period of Time	1000 (h)
Mark	Part No.	Rated Voltage(V)	Nominal Capacitance(μF)	Case Size(φ × L)mm	Tested qty(pcs)
●	ESMM451VSN181MQ35S	450	180	φ 25.4×35 L	10



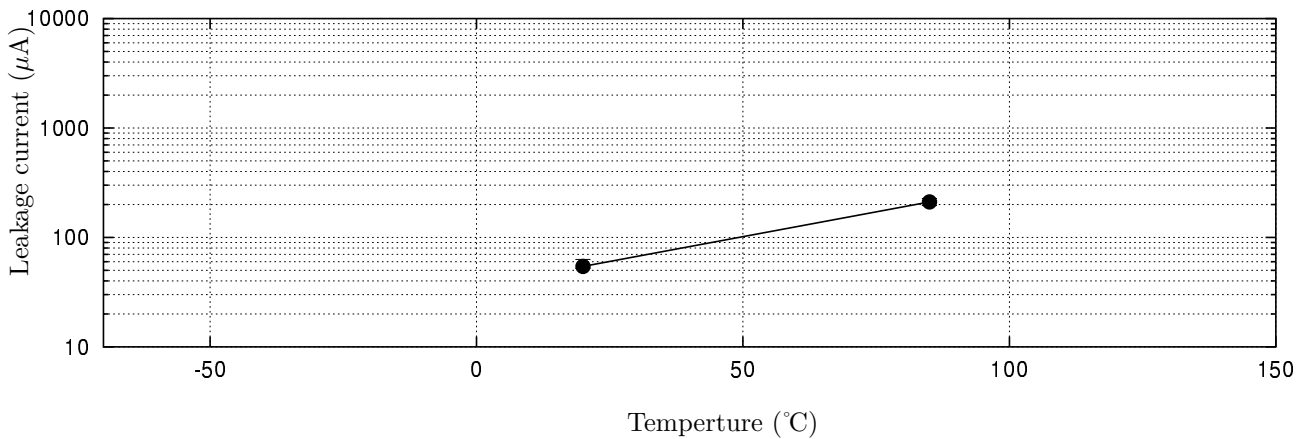
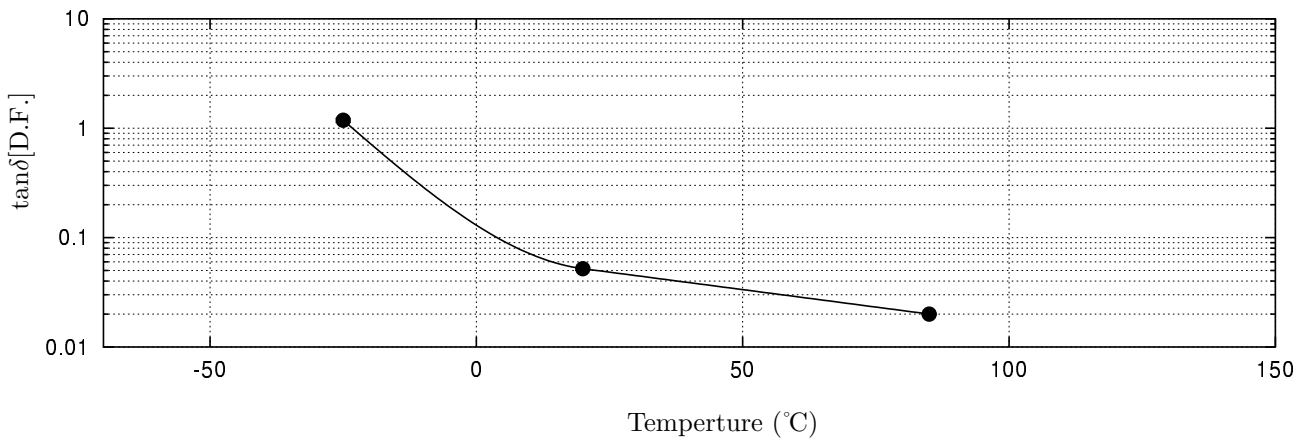
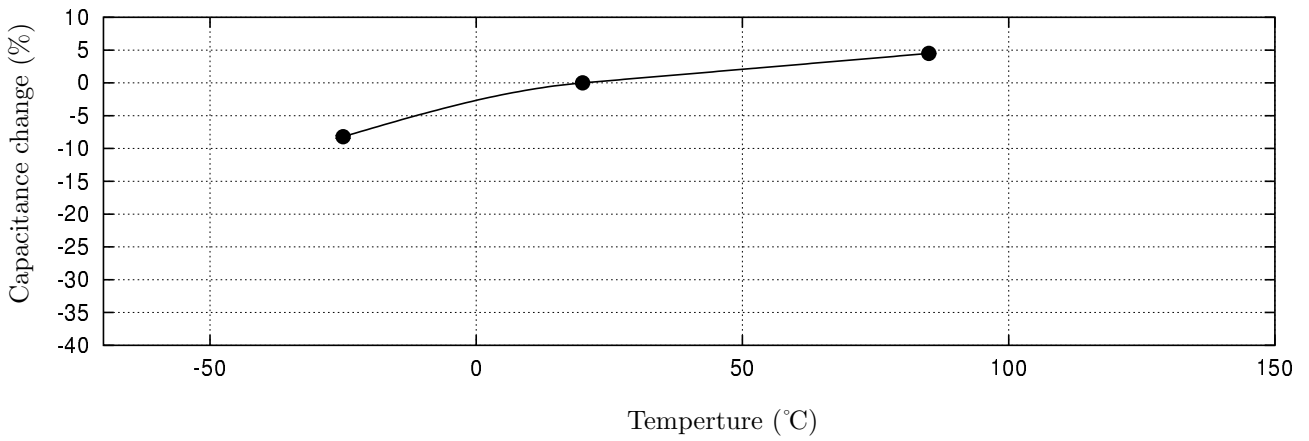
Aluminum Electrolytic Capacitor Reliability data

Test name					
Temperature Characteristics					
Test temp. -25 ~ 85 (°C)		Leakage Current (Volt) 200 (V)	Measurement LCR meter 4284A		
		Leakage Current (Time) 5 (min)	Measurement Freq. 120 (Hz)		
Mark	Part No.	Rated Voltage(V)	Nominal Capacitance(μF)	Case Size(φ × L)mm	Tested qty(pcs)
●	ESMM201VSN821MQ35S	200	820	φ 25.4×35 L	3



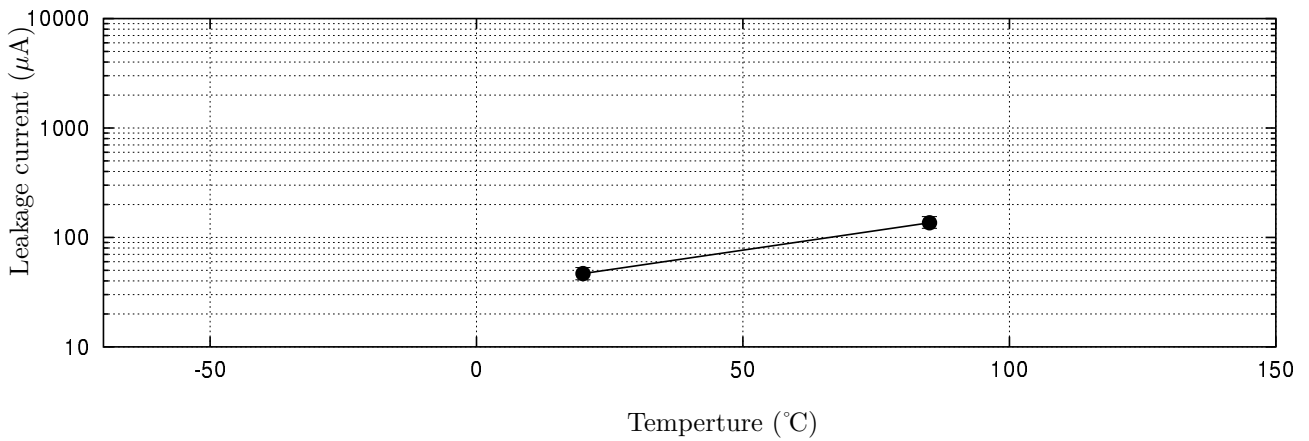
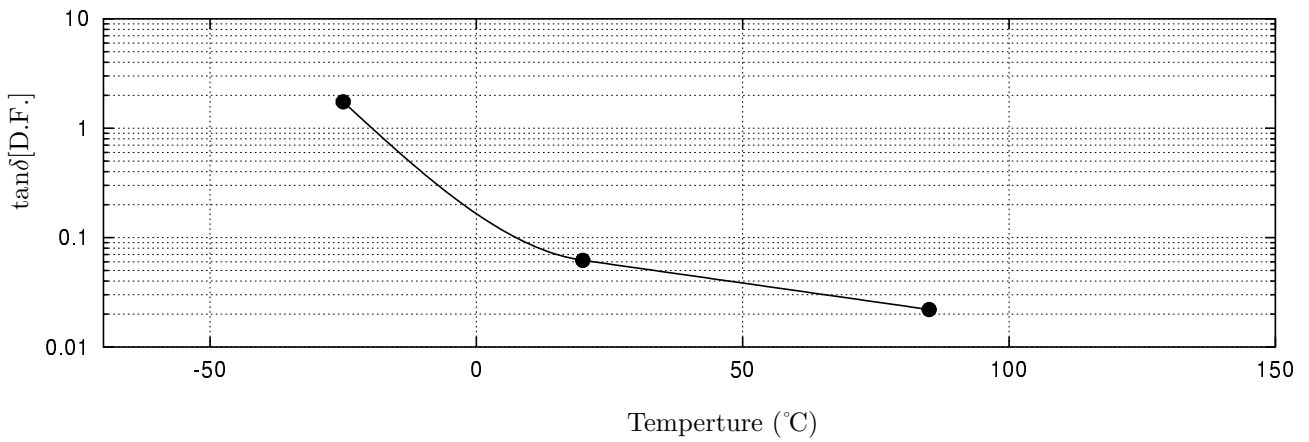
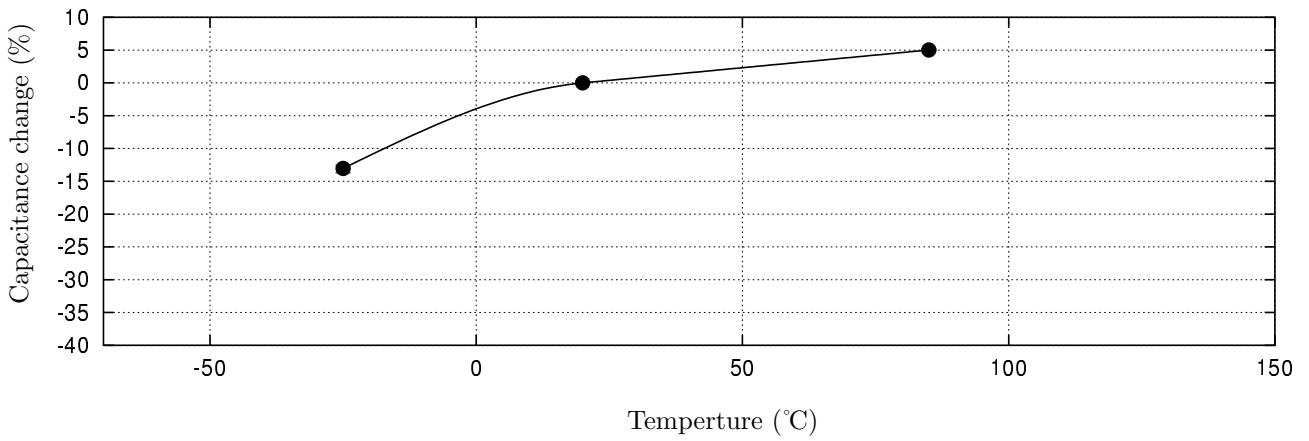
Aluminum Electrolytic Capacitor Reliability data

Test name		Temperature Characteristics			
Test temp.	-25 ~ 85 (°C)	Leakage Current (Volt)	400 (V)	Measurement LCR meter	4284A
		Leakage Current (Time)	5 (min)	Measurement Freq.	120 (Hz)
Mark	Part No.	Rated Voltage(V)	Nominal Capacitance(μF)	Case Size(φ × L)mm	Tested qty(pcs)
●	ESMM401VSN271MQ40S	400	270	φ 25.4×40 L	3



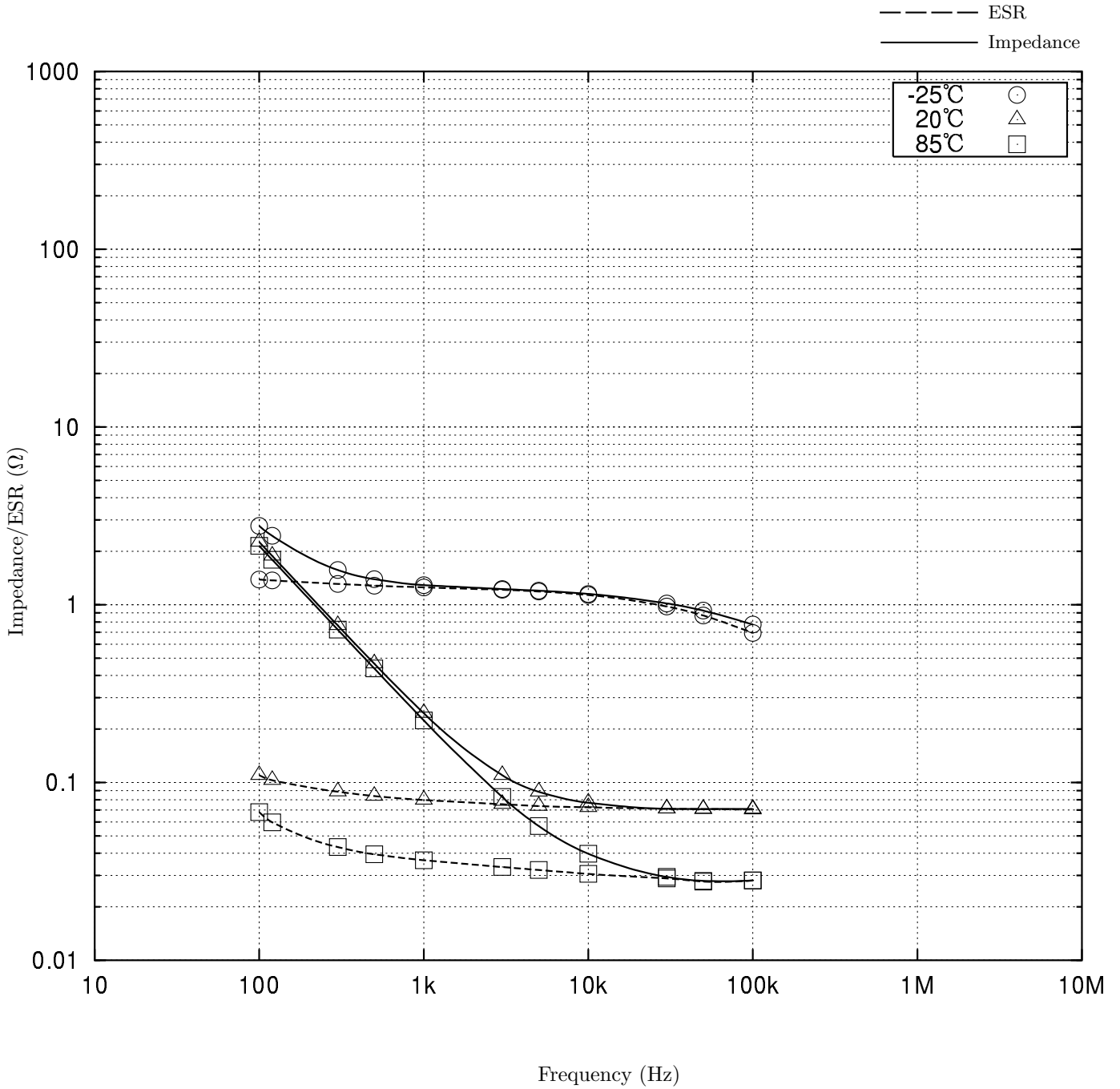
Aluminum Electrolytic Capacitor Reliability data

Test name		Temperature Characteristics			
Test temp.	-25 ~ 85 (°C)	Leakage Current (Volt)	450 (V)	Measurement LCR meter	4284A
		Leakage Current (Time)	5 (min)	Measurement Freq.	120 (Hz)
Mark	Part No.	Rated Voltage(V)	Nominal Capacitance(μF)	Case Size(φ × L)mm	Tested qty(pcs)
●	ESMM451VSN181MQ35S	450	180	φ 25.4×35 L	3



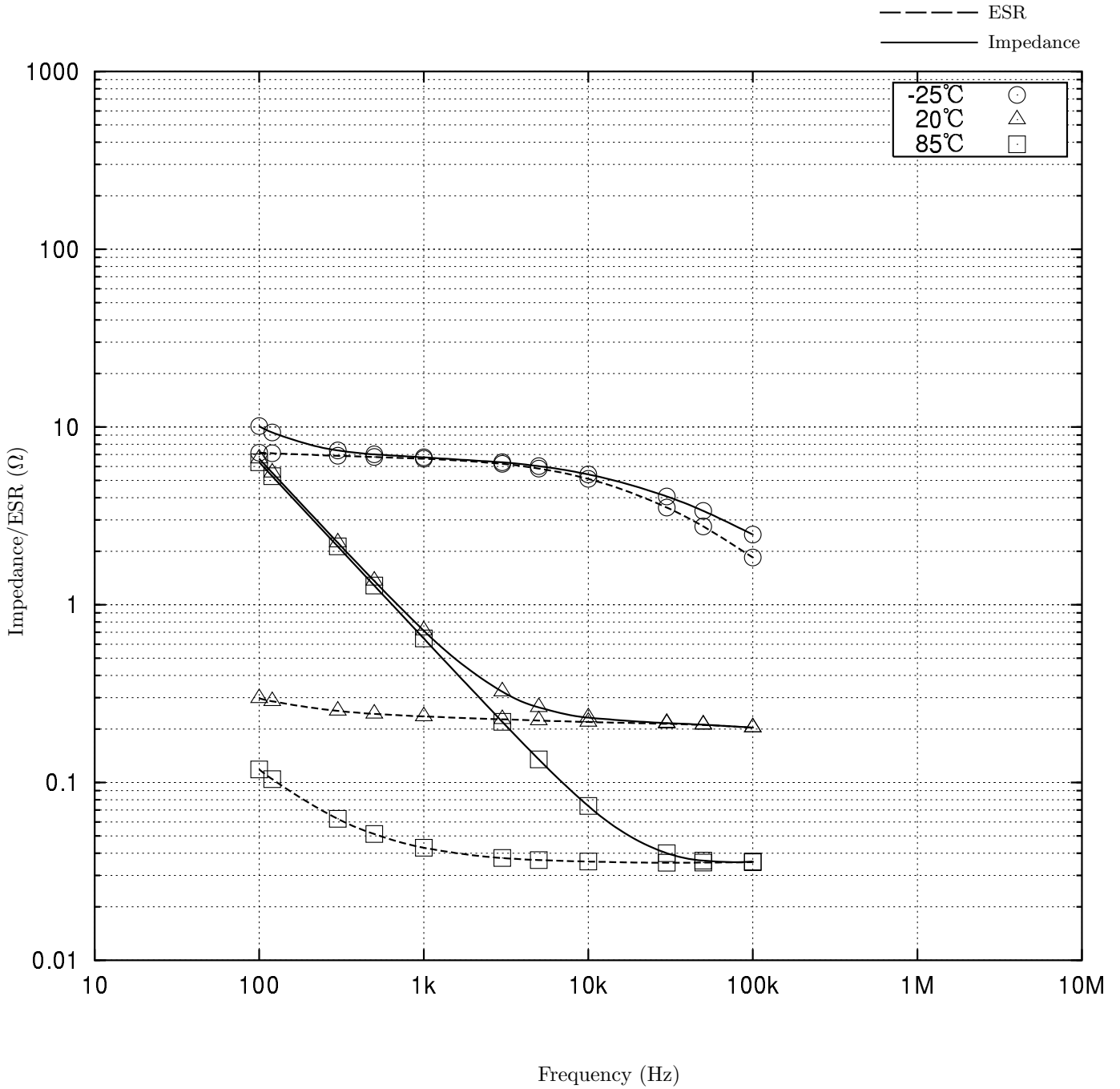
Aluminum Electrolytic Capacitor Reliability data

Test name Frequency-Impedance/ESR Characteristics				
Test temp. -25 ~ 85 (°C) Measurement LCR meter 4284A				
Part No.	Rated Voltage(V)	Nominal Capacitance(μF)	Case Size(φ × L)mm	Tested qty(pcs)
ESMM201VSN821MQ35S	200	820	φ 25.4×35 L	3



Aluminum Electrolytic Capacitor Reliability data

Test name					Frequency-Impedance/ESR Characteristics				
Test temp.					-25 ~ 85 (°C) Measurement LCR meter 4284A				
Part No.		Rated Voltage(V)		Nominal Capacitance(μF)		Case Size(φ × L)mm		Tested qty(pcs)	
ESMM401VSN271MQ40S		400		270		φ 25.4×40 L		3	



Aluminum Electrolytic Capacitor Reliability data

Test name					Frequency-Impedance/ESR Characteristics				
Test temp.					-25 ~ 85 (°C) Measurement LCR meter 4284A				
Part No.		Rated Voltage(V)		Nominal Capacitance(μF)		Case Size(φ × L)mm		Tested qty(pcs)	
ESMM451VSN181MQ35S		450		180		φ 25.4×35 L		3	

