LOS Aluminum Electrolytic Capacitors For Audio

■ SILMIC SERIES

- Elna's newly developed low distortion material (constructed with silk fiber) is used for the internal separator. It produces superior result in sound quality for audio applications.
- Due to the silk fiber's flexibility, the capacitor makes the audio engineers' dreams come true. For example:
  - To smooth the music's vibration energy.
  - To decrease the peak feeling sound at high frequency and rough quality sound at mid-range frequency.
  - To increase the robust tone at low frequency.

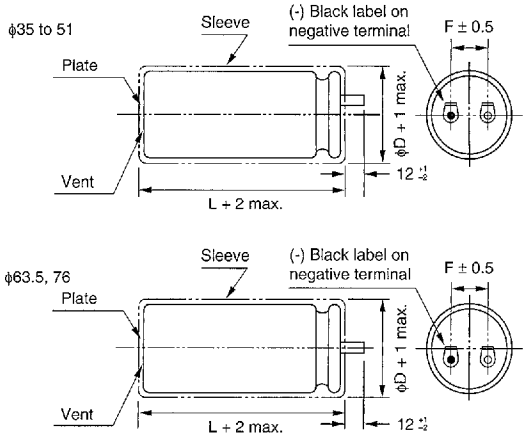
Series LOS For Power Supply Filter (Common name: Silmic)

- Adoption of the audio separator fabricated by cross-knitting silk and Manila hemp fibers, and low-magnification formation foil with its large part unetched offers a synergistic effect to realize elegant and voluminous musical reproduction.
- Vinyl sleeve in black with a gold "Silmic" mark.

Photo

Outline Drawing

Unit: mm



Terminal Spacing

φD	35	40	51	63.5	76
F	14	14	20	25	31.8

Specifications

No.	Item	Performance
1	Temperature range (°C)	–40 to +85
2	Leakage current	Less than 0.02 CV (μA) or 3 mA whichever is smaller (after five minutes) C: Capacitance (μF), V: Voltage (V)
3	Capacitance tolerance (%)	±20 (20°C, 120 Hz)
4	Tangent of loss angle (tan δ)	Rated voltage (V): 50 / 63 / 80 / 100; tan δ: 0.25 / 0.20 / 0.20 / 0.20 (20°C, 120 Hz)
5	Stability at low temperature (120 Hz)	Impedance ratio Z–25°C/Z+20°C: 3; Z–40°C/Z+20°C: 12 (120 Hz)
6	Endurance (85°C) (Applied ripple current)	Test time: 1000 hrs; Leakage current: Initial specified value or less; Change in capacitance: Within ±20% of initial value; tan δ: 150% or less of initial specified value
7	Max. storage temp. (85°C)	Test time: 500 hrs; Leakage current: Initial specified value or less; Change in capacitance: Within ±20% of initial value; tan δ: 150% or less of initial specified value. Pretreatment performed (JIS C 5102).
8	Applicable Standards	JIS C 5102 and JIS C 5141.

Coefficients of Frequency for Ripple Current

Frequency (Hz)	50	120	1 k	10 k	20 k
Coefficients	0.95	1	1.10	1.30	1.33

Coefficients of Temperature for Ripple Current

Temperature (°C)	+40 or less	+55	+70	+85
Coefficients	2.1	1.8	1.5	1

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Specification and dimensions in this catalog are subject to change without notice.
If necessary, drawings can be provided.

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Case size by working voltage & capacitance (in mm)

(mm)

Type IV

WV(V) / Cap.(μF)	50	63	80	100
8200	40 x 90	40 x 100	51 x 90	51 x 100
10000	40 x 100	51 x 80	51 x 100	63.5 x 80
12000	51 x 80	51 x 90	63.5 x 80	63.5 x 90
15000	51 x 90	51 x 110	63.5 x 90	63.5 x 110
22000	63.5 x 90	63.5 x 100	76 x 100	76 x 110

Type V

WV(V) / Cap.(μF)	50	63	80	100
8200	40 x 100	51 x 80	51 x 100	63.5 x 80
10000	51 x 80	51 x 90	63.5 x 80	63.5 x 90
12000	51 x 90	51 x 100	63.5 x 90	63.5 x 100
15000	51 x 100	63.5 x 90	63.5 x 100	76 x 90
22000	63.5 x 100	63.5 x 110	76 x 110	76 x 120

Standard Ratings

Type IV

ELNA PART NO. / WV (V)	CAP. (μF)	SIZE (φ x L) (mm)	tan δ	Ripple Current (Arms)
50 V				
LOS-50V822MS6D	8200	40 x 90	0.25	4.9
LOS-50V103MS6E	10000	40 x 100	0.25	5.6
LOS-50V123MS7C	12000	51 x 80	0.25	6.4
LOS-50V153MS7D	15000	51 x 90	0.25	7.4
LOS-50V223MS8D	22000	63.5 x 90	0.25	9.9
63 V				
LOS-63V822MS6E	8200	40 x 100	0.20	5.7
LOS-63V103MS7C	10000	51 x 80	0.20	6.6
LOS-63V123MS7D	12000	51 x 90	0.20	7.5
LOS-63V153MS7F	15000	51 x 110	0.20	8.9
LOS-63V223MS8E	22000	63.5 x 100	0.20	11.4
80 V				
LOS-80V822MS7D	8200	51 x 90	0.20	6.2
LOS-80V103MS7E	10000	51 x 100	0.20	7.1
LOS-80V123MS8C	12000	63.5 x 80	0.20	7.9
LOS-80V153MS8D	15000	63.5 x 90	0.20	9.1
LOS-80V223MS9E	22000	76 x 100	0.20	12.3
100 V				
LOS-100V822MS7E	8200	51 x 100	0.20	6.5
LOS-100V103MS8C	10000	63.5 x 80	0.20	7.2
LOS-100V123MS8D	12000	63.5 x 90	0.20	8.2
LOS-100V153MS8E	15000	63.5 x 100	0.20	9.7
LOS-100V223MS9F	22000	76 x 110	0.20	12.7

Type V

ELNA PART NO. / WV (V)	CAP. (μF)	SIZE (φ x L) (mm)	tan δ	Ripple Current (Arms)
50 V				
LOS-50V822MS6E	8200	40 x 100	0.25	5.1
LOS-50V103MS7C	10000	51 x 80	0.25	5.8
LOS-50V123MS7D	12000	51 x 90	0.25	6.6
LOS-50V153MS7E	15000	51 x 100	0.25	7.7
LOS-50V223MS8E	22000	63.5 x 100	0.25	10.2
63 V				
LOS-63V822MS7C	8200	51 x 80	0.20	6.0
LOS-63V103MS7D	10000	51 x 90	0.20	6.8
LOS-63V123MS7E	12000	51 x 100	0.20	7.7
LOS-63V153MS8D	15000	63.5 x 90	0.20	9.1
LOS-63V223MS8F	22000	63.5 x 110	0.20	11.8
80 V				
LOS-80V822MS7E	8200	51 x 100	0.20	6.4
LOS-80V103MS8C	10000	63.5 x 80	0.20	7.2
LOS-80V123MS8D	12000	63.5 x 90	0.20	8.2
LOS-80V153MS8E	15000	63.5 x 100	0.20	9.4
LOS-80V223MS9F	22000	76 x 110	0.20	12.7
100 V				
LOS-100V822MS8C	8200	63.5 x 80	0.20	6.3
LOS-100V103MS8D	10000	63.5 x 90	0.20	7.5
LOS-100V123MS8E	12000	63.5 x 100	0.20	8.4
LOS-100V153MS9D	15000	76 x 90	0.20	9.9
LOS-100V223MS9G	22000	76 x 120	0.20	130

Note: Allowable Ripple Current 120 Hz at 85°C

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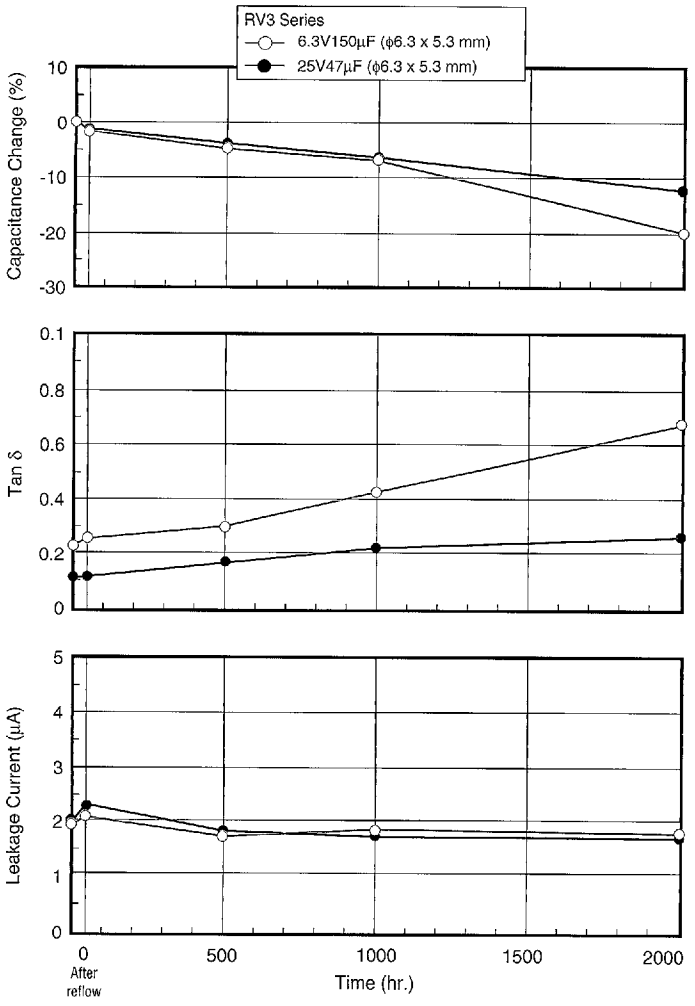
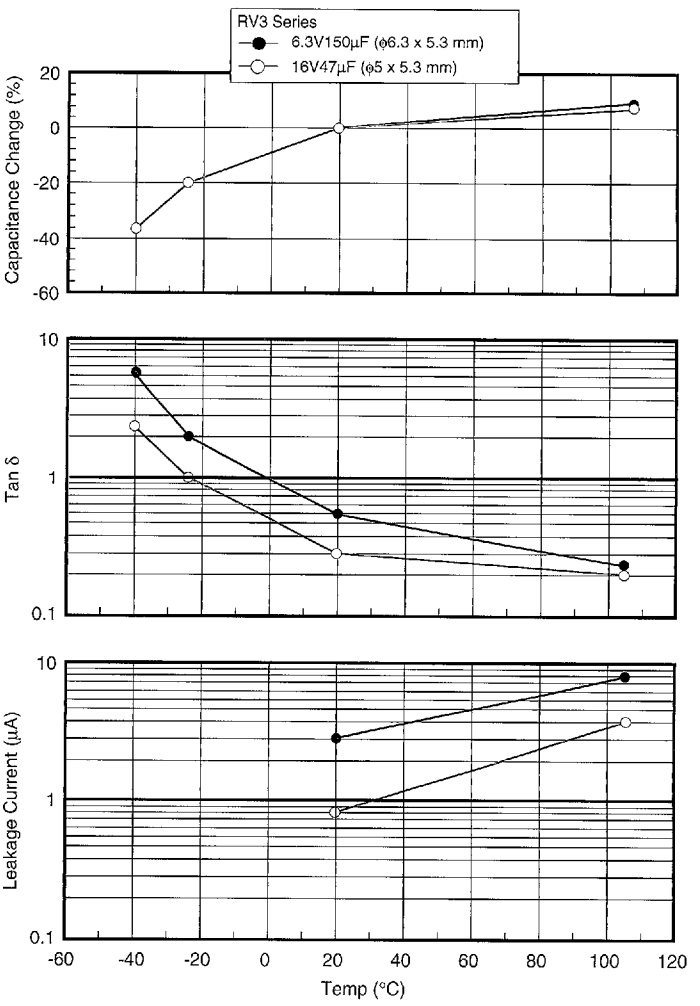
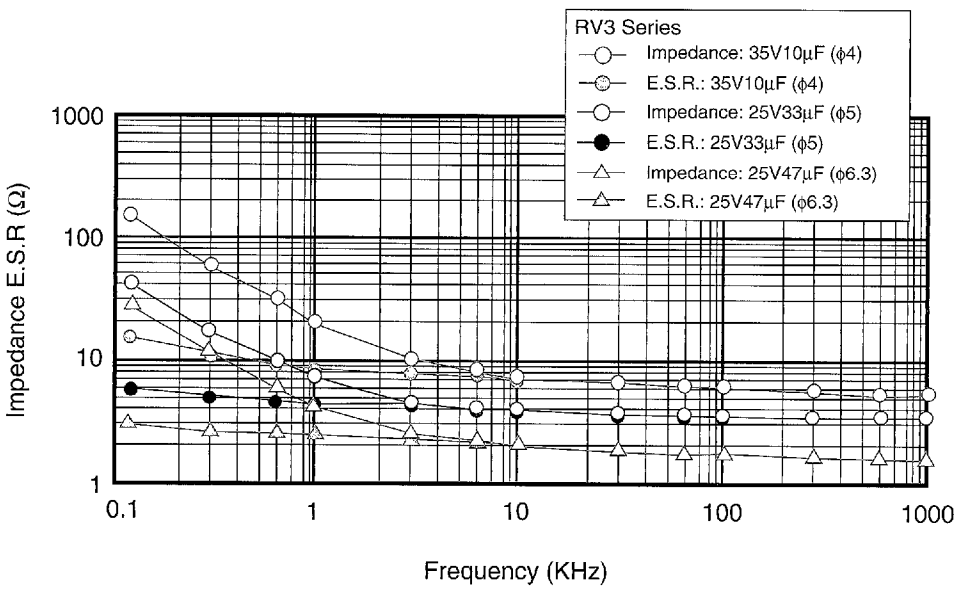
■ Endurance Test (85°C at WV)



■ Temperature Characteristic

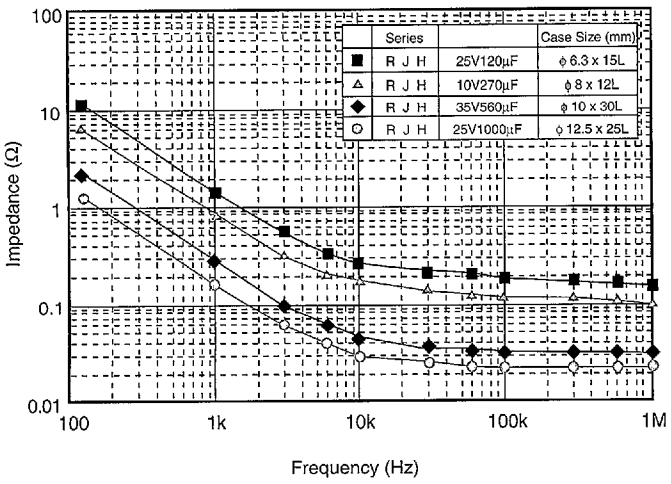


■ Frequency Characteristic

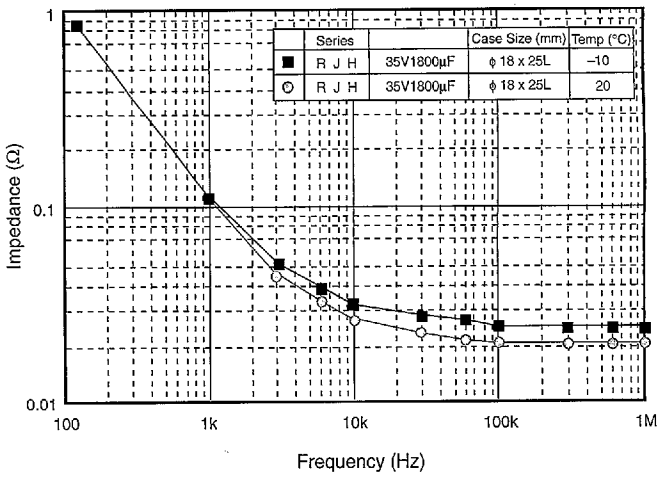


■ Frequency Characteristic

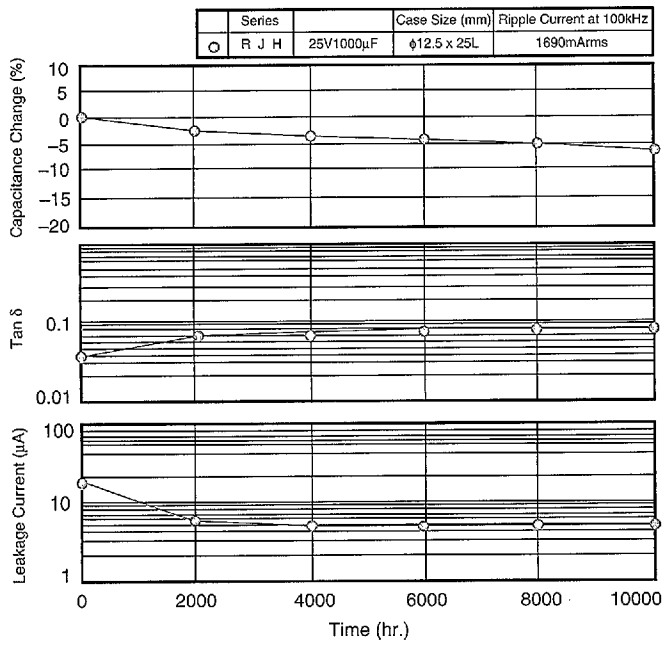
+20°C

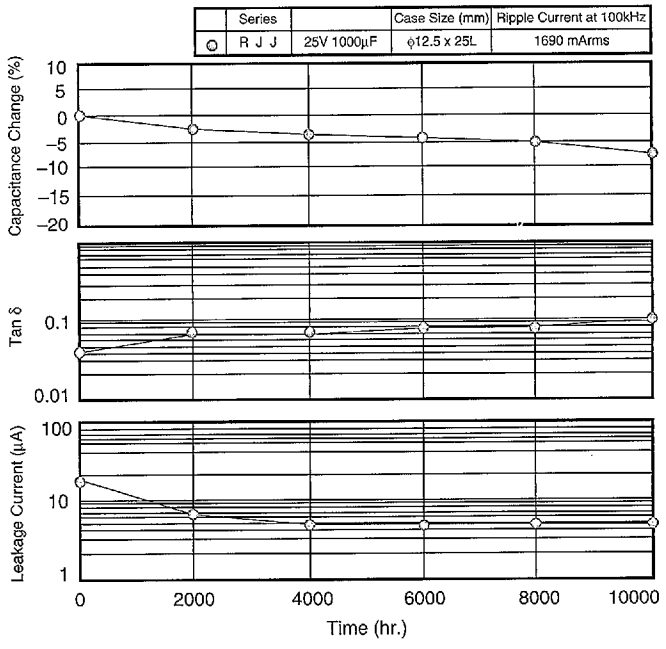


+20°C, -10°C,

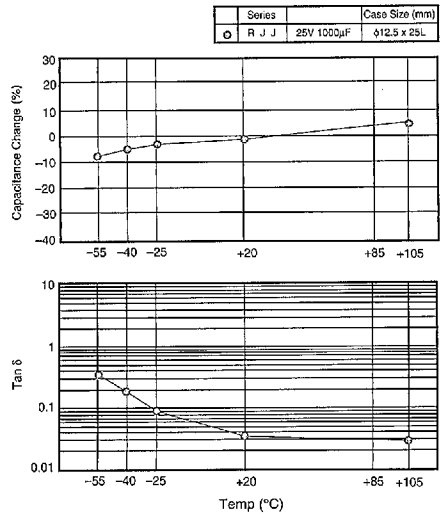


■ Endurance Test (105°C)





■ Temperature Characteristic (-55°~+105°C)



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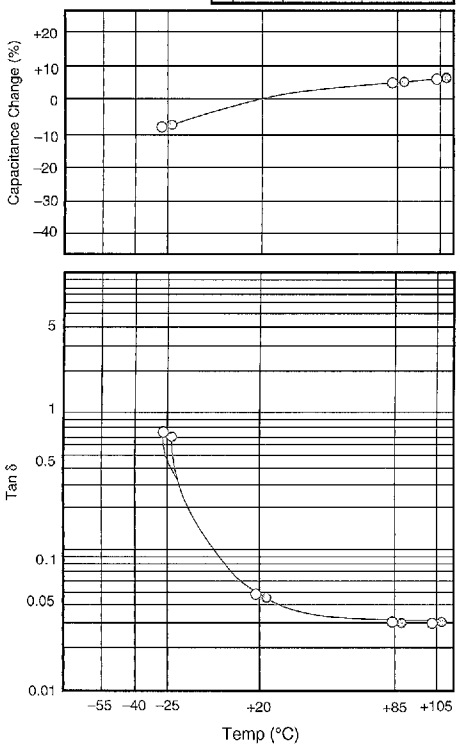
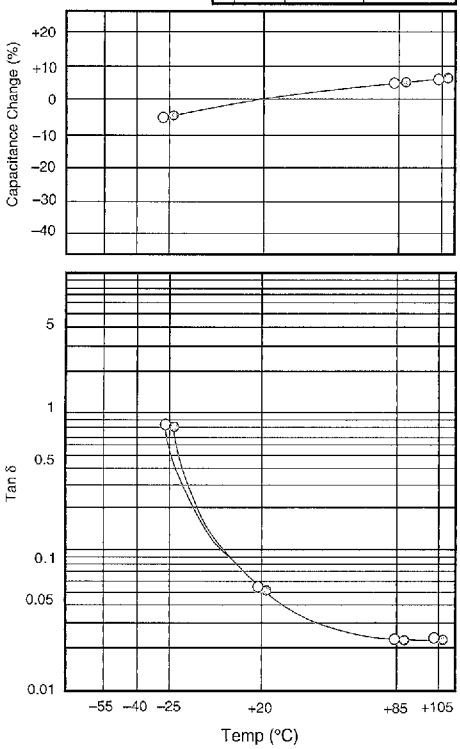
■ Temperature Characteristic (-25°C~+105°C)

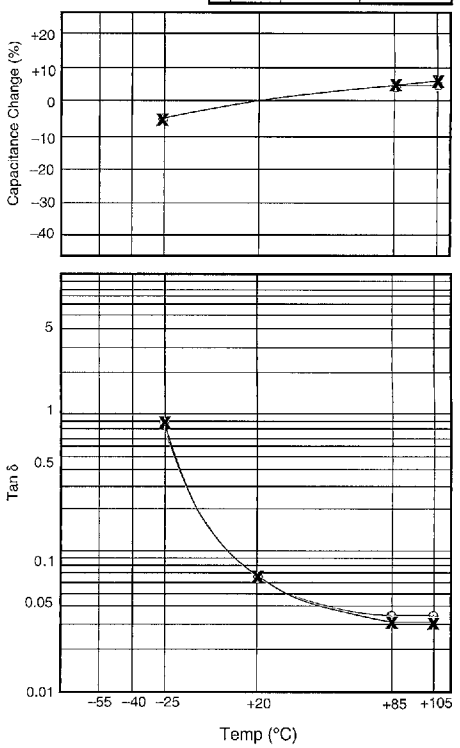
	Series		Case Size (mm)
○	LPG	200V470μF	φ25 x 35L
○	LPH	200V470μF	φ25 x 30L



	Series		Case Size (mm)
○	LPG	400V120μF	φ25 x 35L
○	LPH	400V120μF	φ25 x 30L

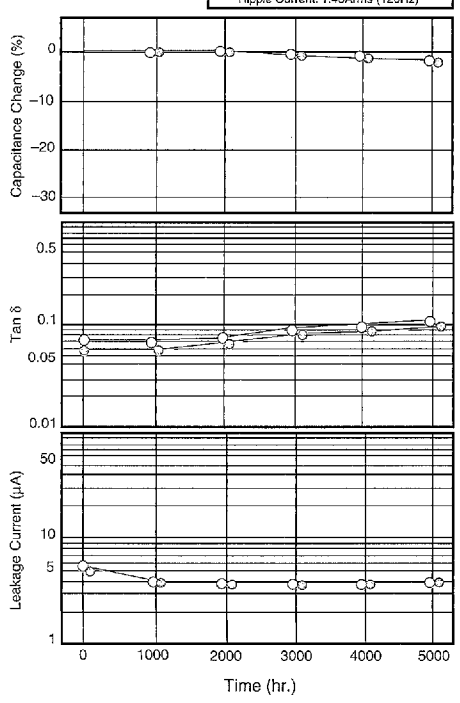


	Series		Case Size (mm)
○	LPX	200V100μF	φ30 x 50L
X	LPX	400V330μF	φ35 x 50L

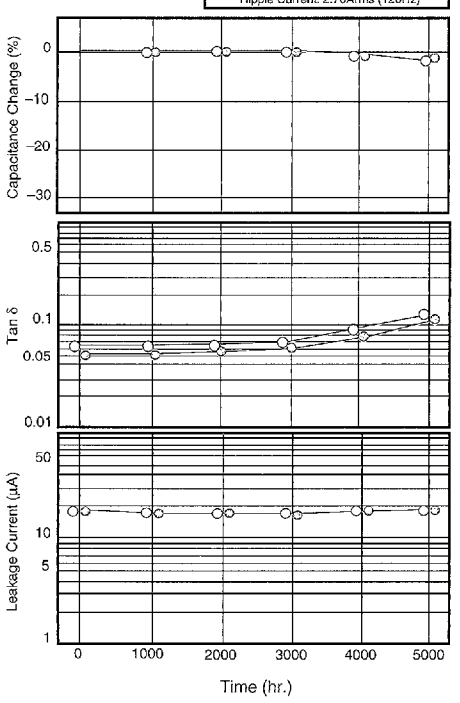


■ Endurance Test (105°C)

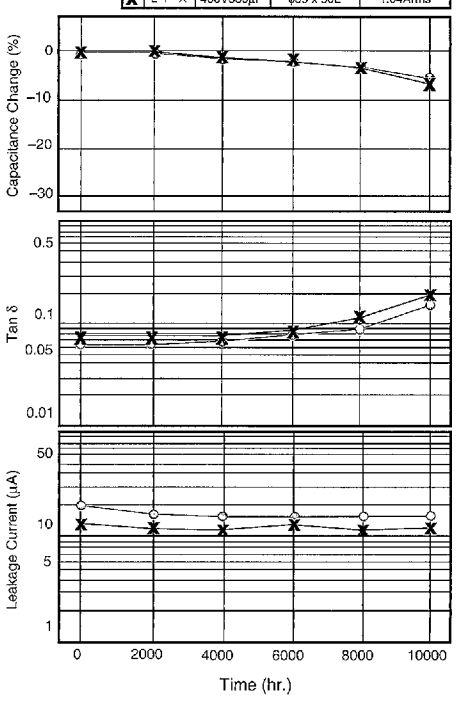
	Series		Case Size (mm)
○	LPG	160V330μF	φ22 x 30L
○	LPH	160V390μF	φ22 x 30L
Ripple Current: 1.43Arms (120Hz)			



	Series		Case Size (mm)
○	LPG	200V1500μF	φ35 x 50L
○	LPH	200V1800μF	φ35 x 50L
Ripple Current: 2.70Arms (120Hz)			

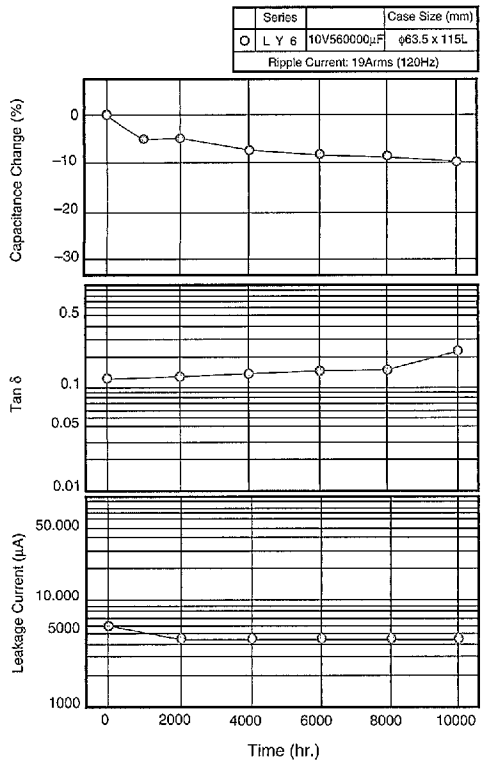


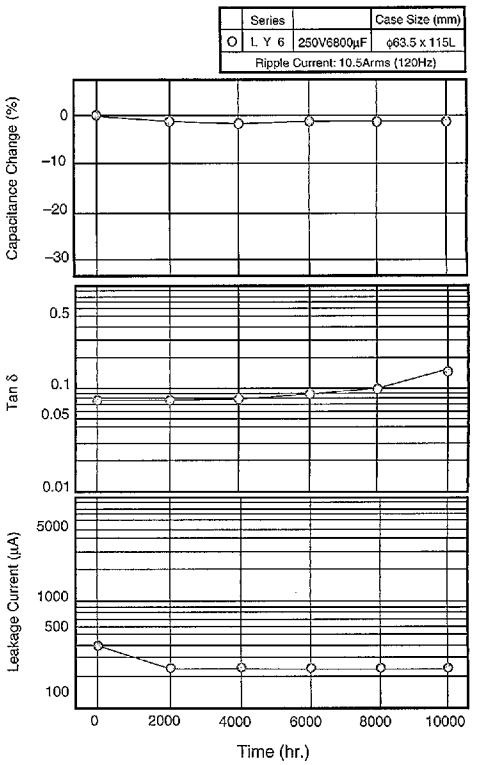
	Series		Case Size (mm)	Ripple Current (120Hz)
○	LPX	200V1000μF	φ30 x 50L	2.00Arms
X	LPX	400V330μF	φ35 x 50L	1.04Arms



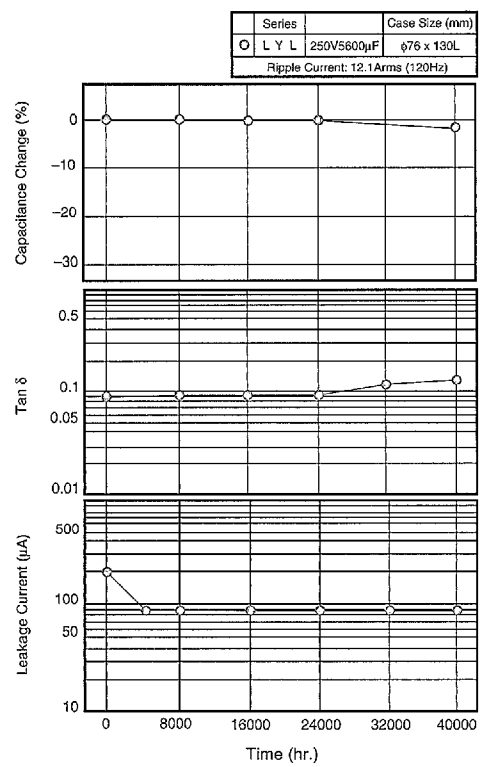
■ Endurance Test

LY6 Series 85°C





LYL Series 85°C



LYX Series 105°C