

LARGE ALUMINUM ELECTROLYTIC CAPACITORS

AL,AY For Inverter Air-conditionings

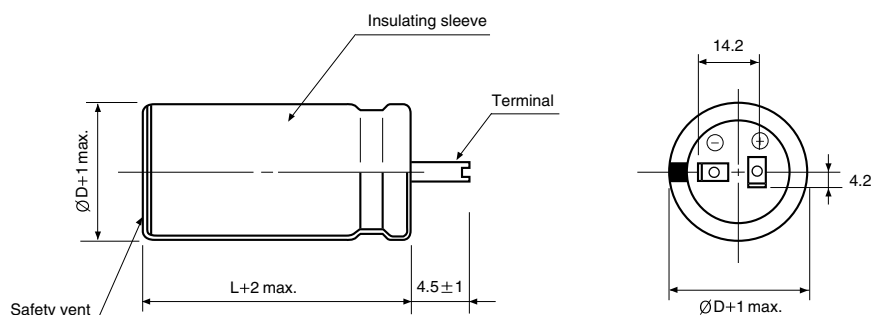
- For high ripple current application such as air conditioning system
- AL series is load life of 5000 hours at 85°C
- AY series is load life of 7000 hours at 85°C



Item	Characteristics	
Operating temperature range	-40 ~ +85°C	
Capacitance tolerance	± 10% at 120Hz, 20°C	
Leakage current max.	$I=3\sqrt{CV}$ (μA) (after 5 minutes)	
Dissipation factor (120Hz, 20°C)	WV	450
	tanδ	0.20
Low temperature characteristics (Impedance ratio at 120Hz)	WV	450
	Z-25°C / Z+20°C	8
	Z-40°C / Z+20°C	16
Load life	The following specifications shall be satisfied when the capacitors are restored to 20°C after subjected to DC voltage with the rated ripple current is applied for 7000 hours at 85°C	
	Leakage current	Less than specified value
	Capacitance change	Within ±20% of initial value
	tanδ	Less than 200% of specified value
Shelf life	After 1000 hours no load test, leakage current, capacitance and tanδ are same as load life value. The measurement shall be performed at 20°C by the KS C IEC 60384 - 4	

● DRAWING

Unit : mm



WV	WV	AL		AY	
	μF / ØD	30	35	30	35
450	330				35 × 30 2.30
	390		35 × 35 2.40		35 × 35 2.70
	470	30 × 50 2.90	35 × 40 2.90		35 × 40 3.30
	560	30 × 60 4.00	35 × 50 4.00		35 × 50 4.00
	680	30 × 70 4.40	35 × 60 4.40		35 × 60 4.60
	820		35 × 70 4.80	← Case size ØD × L (mm)	35 × 70 5.40

↑
Ripple current (A rms) at 85°C, 120Hz