Aluminum Electrolytic Capacitors RPL

Features

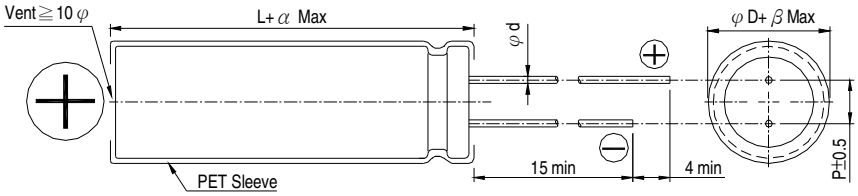
- 105℃, 5,000 hours assured
- φ10 ~ φ18 with large permissible ripple current
- Pen type included
- RoHS Compliance

Sleeve & Marking Color: Black & Golden

SPECIFICATIONS

Items	Performance	
Category Temperature Range	400V	420 ~ 450V
	-40℃ ~ +105℃	-25℃ ~ +105℃
Capacitance Tolerance	±20% (at 120Hz, 20℃)	
Leakage Current (at 20℃)	Time: after 5 minutes Leakage Current: CV ≦ 1,000 → I = 0.03CV + 15(μA); CV > 1,000 → I = 0.02CV + 25(μA) Where, C = rated capacitance in μF V = rated DC working voltage in V	
Dissipation Factor (Tan δ at 120Hz, 20℃)	Rated Voltage: 400 / 420 / 450 Tan δ (max): 0.24 / 0.24 / 0.24	
Low Temperature Characteristics (at 120Hz)	Impedance ratio shall not exceed the values given in the table below.	
	Rated Voltage: 400 / 420 / 450	
	Impedance Ratio Z(-25)/Z(+20℃): 5 / 6 / 6	
	Impedance Ratio Z(-40)/Z(+20℃): 6 / - / -	
Endurance	Test Time: 5,000 Hrs Capacitance Change: Within ±20% of initial value Dissipation Factor: Less than 200% of specified value Leakage Current: Within specified value * The above specifications shall be satisfied when the capacitors are restored to 20°C after the rated voltage applied with rated ripple current for 5,000 hours at 105°C.	
Shelf Life Test	Test Time: 1,000 Hrs Capacitance Change: With in ±20% of initial value Dissipation Factor: Less than 200% of specified value Leakage Current: Within specified value * The above specifications shall be satisfied when the capacitors are restored to 20°C after exposing them for 1,000 hours at 105°C without voltage applied. The rated voltage shall be applied to the capacitors before the measurements (Refer to JIS C 5101-4 4.1).	
Ripple Current & Frequency Multipliers	Frequency (Hz): 60 / 120 / 500 / 1k / 10k up Multipliers: 0.80 / 1.00 / 1.25 / 1.40 / 1.50	

DIAGRAM OF DIMENSIONS



Unit: mm

LEAD SPACING AND DIAMETER

ϕD	10	12.5	16	18
P	5.0		7.5	
ϕd	0.6		0.8	
α	2.5			
β	0.5			

DIMENSION & PERMISSIBLE RIPPLE CURRENT

Dimension: ϕD × L(mm)
Ripple Current: mA/rms at 105°C

V. DC	Cap. (μF)	10ϕ			12.5ϕ			16ϕ			18ϕ		
		ϕD×L	Ripple Current		ϕD×L	Ripple Current		ϕD×L	Ripple Current		ϕD×L	Ripple Current	
			120 Hz	100k Hz		120 Hz	100k Hz		120 Hz	100k Hz		120 Hz	100k Hz
400V (2G)	33	10x35	320	480									
	39	10x40	380	570	12.5x30	380	570						
	47	10x45	425	638				16x25	400	600			
	56	10x50	490	735	12.5x35	475	713						
	68				12.5x40	550	825	16x31.5	530	795			
	82				12.5x45	615	923	16x35.5	605	908			
	100				12.5x50	690	1,035	16x40	740	1,110	18x31.5	625	938
	120							16x45	795	1,193	18x35.5	730	1,095
	150										18x45	910	1,365
420V (2P)	33	10x40	350	525									
	39	10x45	390	585	12.5x30	380	570						
	47	10x50	445	668	12.5x35	410	615	16x25	370	555			
	56				12.5x40	490	735	16x31.5	475	713			
	68				12.5x45	560	840	16x35.5	550	825			
	82				12.5x50	625	938	16x40	630	945	18x31.5	570	855
	100							16x45	750	1,125	18x35.5	675	1,013
	120							16x50	865	1,298	18x45	825	1,238
	150										18x50	950	1,425
450V (2W)	33	10x40	350	525	12.5x30	350	525						
	39	10x45	390	585	12.5x35	400	600	16x25	370	555			
	47	10x50	445	668	12.5x40	425	683	16x31.5	455	683			
	56				12.5x45	500	750	16x35.5	560	750			
	68							16x40	590	885	18x31.5	550	825
	82				12.5x50	625	938	16x45	675	1,013	18x35.5	645	968
	100							16x50	785	1,178	18x40	740	1,110
	120										18x45	825	1,238
	150										18x50	950	1,425

Remark: Other sizes and specification are available, please contact us for detail.

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