



Aluminum Electrolytic Capacitors

RPL

Features

- 105°C, 5,000 hours assured
- $\phi 10 \sim \phi 18$ with large permissible ripple current
- Pen type included
- RoHS Compliance



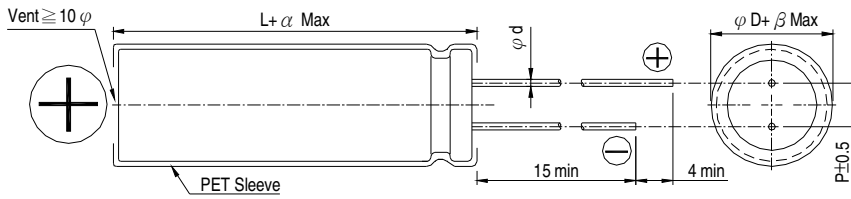
Sleeve & Marking Color: Black & Golden

SPECIFICATIONS

Items	Performance					
Category Temperature Range	400V			420 ~ 450V		
	-40°C ~ +105°C			-25°C ~ +105°C		
Capacitance Tolerance	±20% (at 120Hz, 20°C)					
Leakage Current (at 20°C)	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°C)	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°C)	5	6	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: $\phi D \times L$ (mm)

Ripple Current: mA/rms at 105°C

V. DC	Cap. (μF)	10 ϕ				12.5 ϕ			16 ϕ			18 ϕ		
		$\phi D \times L$	Ripple Current		$\phi D \times L$	Ripple Current		$\phi D \times L$	Ripple Current		$\phi D \times L$	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	
420V (2P)	150										18x45	910	1,365	
	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	
450V (2W)	120							16x50	865	1,298	18x45	825	1,238	
	150										18x50	950	1,425	
	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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