

ALUMINUM ELECTROLYTIC CAPACITORS

LLS series Load Type For Power

LLS 20 Ø

FEATURES

- Load Life: 105°C 2000 ~3000Hours.
- Substitute of Snap-in.
- 20Ø Radial lead type for Power Supply

SPECIFICATIONS

Item	Performance Characteristics						
Operating Temperature Range	-40°C ~ +105°C (160~250V), -25°C ~ +105°C (350~450V)						
Rated Voltage Range	160~450V						
Capacitance Range	150~680 μF						
Capacitance Tolerance	±20% (20°C, 120Hz)						
Leakage Current (MAX)	I ≤ 0.02CV After 5minutes with rated working voltage applied I=Leakage Current(μA), C=Nominal Capacitance(μF), V=Rated Voltage(V)						
Dissipation Factor (tan δ)	Rated voltage (V)	200	250	350	400	450	MAX (20°C, 120Hz)
	Tan δ	0.15	0.15	0.15	0.15	0.20	
Low Temperature Stability Impedance Ratio	Rated voltage (V)	200	250	350-400	450	MAX (120Hz)	
	Z(-25°C)/Z(+20°C)	3	5	8	17		
	Z(-40°C)/Z(+20°C)	4	8				
Load Life	After life test at conditions stated in the table below, the capacitors shall meet the following requirements						
	Leakage Current	not more than the specified value.			Case Dia	Life Time(hrs)	
	Capacitance Change	Within ±25% of initial value.			200V~250V	3000	
	Dissipation Factor	not more than 200% of the specified value.			350V~450V	2000	
Shelf Life	After leaving capacitors under no load at 105°C for 500 hours, they meet the characteristic requirements listed at above.						
Standard	According to JIS C-5141						

MULTIPLIER FOR RIPPLE CURRENT

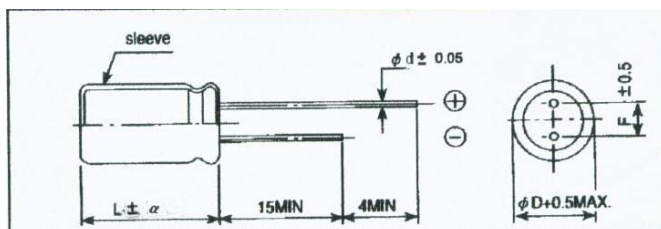
Frequency coefficient

Frequency(Hz)	60(50)	120	1k	10k	≥ 100k
Coefficient	0.8	1.0	1.25	1.40	1.50

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DIMENSIONS (mm)



φD	20
φd	0.8
F	10
α	2

STANDARD SIZES AND PERMISSIBLE RIPPLE CURRENT

SIZE $\varphi D \times L$ (mm) Ripple Current(mA 105°C,) r.m.s

W.V Cap (μF)	200		250		350		400		450	
	SIZE	RIPPLE (120HZ)	SIZE	RIPPLE (120HZ)	SIZE	RIPPLE (120HZ)	SIZE	RIPPLE (120HZ)	SIZE	RIPPLE (120HZ)
150					20*31.5	930	20*31.5	850	20*36.5	700
220			20*31.5	1080	20*36.5	1180	20*36.5	982	20*46.5	850
270			20*31.5	1180	20*41.5	1230	20*41.5	1123		
330			20*31.5	1230	20*46.5	1400	20*46.5	1231		
390	20*31.5	1230	20*36.5	1400						
470	20*36.5	1400	20*41.5	1510						
560	20*41.5	1510	20*46.5	1660						
680	20*46.5	1660								