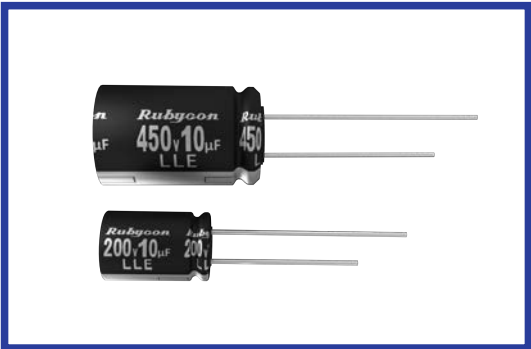


LLE series

105°C 12000~20000時間品  
Load Life: 105°C 12000~20000 hours

・LED照明用電源回路に最適。  
For LED Lighting.



◆規格表/SPECIFICATIONS

項目 Item	特性 Characteristics			
カテゴリ温度範囲 Category Temperature Range	-40~+105°C	-25~+105°C		
定格電圧範囲 Rated Voltage Range	160~400Vdc	450Vdc		
静電容量許容差 Capacitance Tolerance	±20%(20°C, 120Hz)			
漏れ電流 Leakage Current (MAX)	CV ≤ 1000	CV > 1000	I = 漏れ電流(µA) Leakage Current C = 静電容量(µF) Capacitance V = 定格電圧(Vdc) Rated Voltage	
	I=0.1CV+40µA以下(1分値) I=0.1CV+40µA (1minute) I=0.03CV+15µA以下(5分値) I=0.03CV+15µA (5minutes)	I=0.04CV+100µA以下(1分値) I=0.04CV+100µA (1minute) I=0.02CV+25µA以下(5分値) I=0.02CV+25µA (5minutes)		
損失角の正接(tan δ) Dissipation Factor (MAX)	定格電圧 (Vdc) Rated Voltage	160 200 250 400 450	(20°C, 120Hz)	
	tan δ	0.24 0.24 0.24 0.24 0.24		
耐久性 Endurance	105°C中で右表の時間定格電圧(リップル重畳)印加後、下記項目を満足すること。 After applying rated voltage with rated ripple current for specified time at 105°C, the capacitors shall meet the following requirements.			
	静電容量変化率 Capacitance Change	初期値の±30%以内 Within ±30% of the initial value.		ケースサイズ Case Size
	損失角の正接 Dissipation Factor	規格値の 300% 以下 Not more than 300% of the specified value.		時間(hrs) Time(hrs)
	漏れ電流 Leakage Current	規格値以下 Not more than the specified value.		10×16, 10×20 φD ≥ 12.5
低温特性 Low Temperature Stability (インピーダンス比) Impedance Ratio (MAX)	定格電圧 (Vdc) Rated Voltage	160 200 250 400 450	(120Hz)	
	Z(-25°C)/Z(+20°C)	3 3 3 6 6		
	Z(-40°C)/Z(+20°C)	8 8 8 10 -		

◆呼称方法/PART NUMBER

□□□ LLE □□□□□ M □□□ □□ D x L  
 定格電圧 シリーズ名 静電容量 静電容量許容差 副記号 リード加工記号 ケースサイズ  
 Rated Voltage Series Capacitance Capacitance Tolerance Option Lead Forming Case Size

◆副記号/OPTION

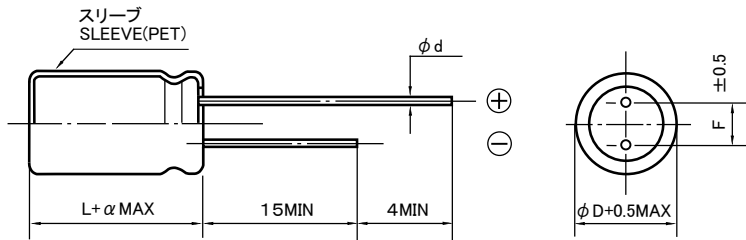
EFC : PETスリーブ PET Sleeve

◆リップル電流補正係数/MULTIPLIER FOR RIPPLE CURRENT

		160~400Vdc			
Frequency (Hz)		120	1k	10k	100k ≤
係数 Coefficient	1~5.6µF	1.0	1.6	1.8	2.0
	6.8~18µF	1.0	1.5	1.7	1.9
	22~33µF	1.0	1.4	1.6	1.8

		450Vdc			
Frequency (Hz)		120	1k	10k	100k ≤
係数 Coefficient	4.7~15µF	0.3	0.6	0.9	1.0
	22~68µF	0.4	0.7	0.9	1.0

◆寸法図/DIMENSIONS



	(mm)					
$\phi D$	6.3	8	10	12.5	16	18
$\phi d$	0.5	0.6		0.8		
F	2.5	3.5	5.0	7.5		
$\alpha$	2.0					

◆標準品一覧表/STANDARD SIZE



定格電圧 Rated Voltage (Vdc)	静電容量 Capacitance ( $\mu F$ )	外形寸法 Size $\phi D \times L$ (mm)	定格リプル電流 Rated Ripple	
			120Hz	100kHz
160	5.6	6.3×11	52	104
	10	8×9	70	133
	15	8×11.5	92	174
		10×9	95	180
	22	10×12.5	121	217
	33	10×16	158	284
200	2.2	6.3×11	36	72
	3.3	6.3×11	42	84
	4.7	6.3×11	49	98
	5.6	8×9	56	112
	6.8	8×9	62	117
	8.2	8×9	66	125
	10	8×11.5	80	152
	12	10×9	88	167
	18	10×12.5	113	214
	27	10×16	149	268
250	1.8	6.3×11	33	66
	2.2	6.3×11	36	72
	3.3	6.3×11	42	84
	4.7	8×9	53	106
	5.6	8×11.5	62	124
	6.8	8×11.5	68	129
	8.2	10×9	76	144
	10	10×12.5	90	171
	12	10×12.5	97	184
	18	10×16	127	241

Rated Ripple Current (mA r.m.s./105°C)

定格電圧 Rated Voltage (Vdc)	静電容量 Capacitance ( $\mu F$ )	外形寸法 Size $\phi D \times L$ (mm)	定格リプル電流 Rated Ripple	
			120Hz	100kHz
400	1	6.3×11	24	48
	1.2	8×9	28	56
	1.5	8×9	30	60
	1.8	8×9	33	66
	2.2	8×9	36	72
		8×11.5	40	80
	2.7	8×11.5	43	86
	3.3	8×11.5	47	94
		10×9	48	96
	3.9	10×12.5	57	114
4.7	10×12.5	61	122	
6.8	10×16	85	161	
450	4.7	10×16	54	180
		10×20	66	220
	6.8	10×20	84	280
	8.2	10×20	84	280
	10	12.5×20	135	450
	15	12.5×25	180	600
	22	12.5×25	240	600
		16×20	292	730
	33	16×25	392	980
		18×20	312	780
47	18×25	480	1200	
68	18×31.5	520	1300	

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