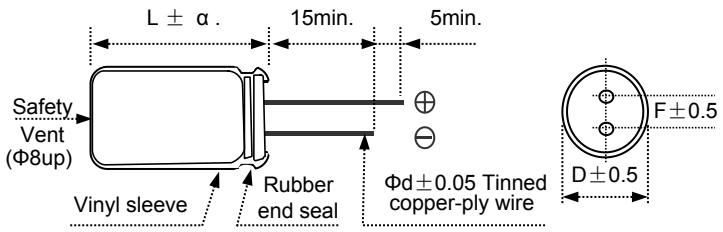
RL Series

- High ripple current,for input filtering,105℃ 3000hours
- RoHS2.0 Compliant

◆ 规格表 Specifications

项目Items	特性参数Characteristics					
使用温度范围 Category Temperture Range	-40~ +105℃(160~400V.DC) -25~+105℃(450V.DC)					
额定工作电压范围 Rated Voltage Range	160 ~ 450V.DC					
静电容量允许偏差 Capacitance Tolerance	±20%(M) (at 20℃,120Hz)					
漏电流 Leakage Current	I≤0.02CV +10μA Note: I=Max.leakage current (μA), C=Nominal capacitance(μF), V=Rated voltage(Vdc) (at 20℃ after 2 minute					
损耗角正切值tanδ Dissipation Factor	Rated voltage(Vdc)	160	200	400	450	(at 20℃,120Hz)
	tanδ (Max.)	0.20	0.20	0.24	0.24	
低温特性 Low Temperature Characteristics (Max.Impedance Ratio)	阻抗比值不得超过下表中列出的值 The impedance ratio shall not exceed the values listed in the below table.					
	Rated voltage(Vdc)	200	400	450		(at 120Hz)
	Z(-25℃)/Z(+20℃)	4	6	6		
	Z(-40℃)/Z(+20℃)	6	6	-		
耐久性 Endurance	在105℃环境中，不超过额定电压的范围内叠加最大允许纹波电流，连续加载右表时间，经恢复到20℃后电容器满足以下各项要求。 The following specifications shall be satisfied when the capacitors are restored to 20℃ after applied within maximum allowable ripple current and not over rated voltage range for the time in the table at					
	Capacitance change	≦±20% of the initial value				
	D.F.(tanδ)	≦200% of the initial specified value				
	Leakage current	≦The initial specified value				
高温储存特性 Shelf Life	在105℃环境中，不施加电压条件下储存1000小时，经恢复到20℃后，电容器满足以下各项要求。 The following specifications shall be satisfied when the capacitors are restored at 20℃ after exposing them for 1000 hours at 105℃ without voltage applied.					
	Capacitance change	≦±20% of the initial value				
	D.F.(tanδ)	≦200% of the initial specified value				
	Leakage current	≦200% of the initial specified value				

◆ 尺寸图（单位：mm）DIMENSIONS (Unit:mm)



ΦD	5	6.3	8	10	13	16	18	20	22
F	2.0	2.5	3.5	5.0	5.0	7.5	7.5	10	10
Φd	0.5	0.5	0.5	0.6	0.6	0.8	0.8	0.8	0.8

α	(L<20)1.5
	(L≧20)2.0

◆ 纹波电流补正系数 Rated Ripple Current Coefficient

- 频率系数 Frequency Coefficient

Frequency(Hz) / Rated Voltage(V)	120	300	1k	10k	50k	100k
4.7~10	1.00	1.35	1.75	2.30	2.50	2.70
15~47	1.00	1.25	1.50	1.75	1.80	1.85
56~330	1.00	1.15	1.30	1.40	1.50	1.60

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◆ 标准品一览表Standard Ratings

WV (V_{dc})	Cap. (μF)	Case Size ΦD×L (mm)	Rated ripple current (mArms) 105℃/120Hz
160	1	6.3X12	21
	2.2	6.3X12	32
	3.3	6.3X12	40
	4.7	6.3X12	47
	6.8	8X12	62
	10	8X12	75
	15	10X16	115
	22	10X20	140
	33	10X20	175
	47	12.5X20	240
	68	12.5X25	370
	100	16X25	430
	150	16X25	500
	220	16X30	815
	270	18X30	880
	330	18X40	980
200	1	6.3X12	19
	2.2	6.3X12	32
	3.3	6.3X12	40
	4.7	8X12	47
	6.8	10X12	70
	10	10X12	80
	15	10X16	118
	22	10X20	140
	33	10X20	160
	47	12.5X20	250
	68	12.5X25	330
	100	16X25	440
	150	16X25	600
	220	18X30	680
	270	18X40	1040

WV (Vdc)	Cap. (μF)	Case Size ΦD×L (mm)	Rated ripple current (mArms) 105℃/120Hz
250	1	6.3X12	19
	2.2	6.3X12	37
	3.3	8X12	50
	4.7	8X12	58
	6.8	10X12	72
	10	10X16	100
	15	10X16	120
	22	10X20	168
	33	12.5X20	210
	47	12.5X25	320
	68	16X25	410
	100	16X30	530
	150	18X25	550
	220	18X35	710
350	1	6.3X12	24
	2.2	8X12	40
	3.3	8X12	52
	4.7	10X12	65
	6.8	10X20	88
	10	10X20	105
	15	12.5X20	130
	22	12.5X20	182
	33	12.5X25	240
	47	16X25	305
	68	16X30	390
	100	18X30	480
400	1	8X12	25
	2.2	8X12	40
	3.3	10X12	55
	4.7	10X16	76
	6.8	10X20	80

WV (V_{dc})	Cap. (μF)	Case Size ΦD×L (mm)	Rated ripple current (mArms) 105℃/120Hz
400	10	12.5X20	110
	15	12.5X20	135
	22	12.5X25	205
	33	16X20	255
	47	16X25	330
	68	16X35	400
	82	18X30	420
	100	18X35	495
	120	18X40	520
450	1	8X12	35
	2.2	10X12	40
	3.3	10X16	65
	4.7	10X16	85
	6.8	10X20	90
	10	12.5X20	140
	15	16X20	160
	22	16X25	200
	33	16X25	320
	47	18X25	350
	68	18X30	440
	82	18X35	500
	100	18X40	560

※铝电解电容器由于在纹波电流叠加时自我发热、温度上升而老化，中心温度每升温5℃寿命减少一半。要想保持长寿命请在使用过程中降低纹波电流。
The endurance of capacitors is reduced with internal heating produced by ripple current at the rate of halving the lifetime with every 5℃ rise.When long life performance is required in actual use,the rms ripple current has to be reduced.