

RY High voltage, Low Impedance, Longer Life 高压低阻抗品

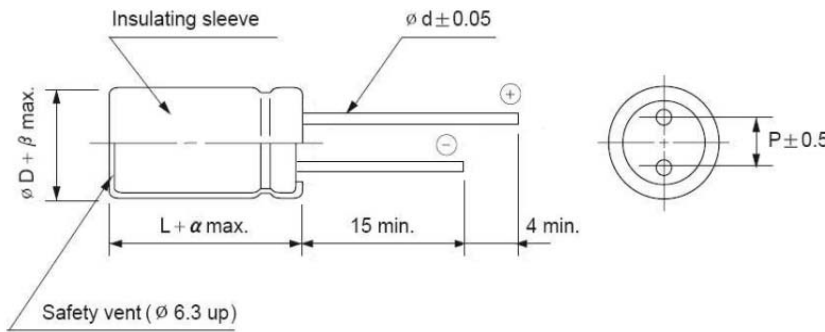
- 105°C, 5000 hours assured.
105°C, 5000 小时寿命品。
- Low Impedance, High ripple current.
超低阻抗, 高纹波
- Suitable for low profile power supply applications, such as, LCD/LED-TV and LCD-Monitor power etc.
适用于超薄电源, 如 LCD/LED 电视、显示器等电源



Specifications 特性表

Items 项目	Characteristics 主要特性																												
Rated Voltage Range 额定工作电压范围	160 ~ 400V _{dc}	420 ~ 450V _{dc}																											
Category Temperature Range 使用温度范围	-40 ~ +105°C	-25 ~ +105°C																											
Capacitance Tolerance 静电容量允许偏差	±20% (M), at 20°C, 120Hz																												
Leakage Current 漏电流, 20°C环境下施加工作电压 2 分钟后. (at 20°C, After 2 minutes)	CV≤1000, I≤0.03CV+15µA 漏电流≤0.03CV+15µA CV>1000, I≤0.02CV+25µA 漏电流≤0.02CV+25µA Where, I : Max. leakage current (漏电流, µA), C : Nominal capacitance (静电容量, µF), V : Rated voltage (额定电压 V)																												
Dissipation Factor (Tanδ, at 20°C, 120Hz) 损耗角正切值 (测试条件为 20°C, 120Hz)	<table border="1"> <tr> <td>Rated voltage (V) 额定工作电压</td> <td>160</td> <td>200</td> <td>220</td> <td>250</td> <td>350</td> <td>400</td> <td>420</td> <td>450</td> </tr> <tr> <td>Tanδ (Max.) 最大损耗角正切</td> <td>0.15</td> <td>0.15</td> <td>0.15</td> <td>0.15</td> <td>0.15</td> <td>0.20</td> <td>0.20</td> <td>0.20</td> </tr> </table> When nominal capacitance exceeds 1,000µF, add 0.02 to the value above for each 1,000µF increase. 静电容量大于1000µF, 每增加1000µF, 损耗角正切增加0.02		Rated voltage (V) 额定工作电压	160	200	220	250	350	400	420	450	Tanδ (Max.) 最大损耗角正切	0.15	0.15	0.15	0.15	0.15	0.20	0.20	0.20									
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Low Temperature Characteristics (Max. Impedance Ratio, 120Hz) 低温特性最大阻抗比	<table border="1"> <tr> <td>Rated voltage (V) 额定工作电压</td> <td>160</td> <td>200</td> <td>220</td> <td>250</td> <td>350</td> <td>400</td> <td>420</td> <td>450</td> </tr> <tr> <td>Z(-25°C)/Z(20°C)</td> <td>4</td> <td>3</td> <td>3</td> <td>3</td> <td>4</td> <td>5</td> <td>6</td> <td>6</td> </tr> <tr> <td>Z(-40°C)/Z(20°C)</td> <td>8</td> <td>6</td> <td>6</td> <td>6</td> <td>6</td> <td>8</td> <td>---</td> <td>---</td> </tr> </table>		Rated voltage (V) 额定工作电压	160	200	220	250	350	400	420	450	Z(-25°C)/Z(20°C)	4	3	3	3	4	5	6	6	Z(-40°C)/Z(20°C)	8	6	6	6	6	8	---	---
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Z(-40°C)/Z(20°C)	8	6	6	6	6	8	---	---																					
Endurance 耐久性	The following specification shall be satisfied when the capacitors are restored to 20°C after subjected to DC voltage with the ripple current is applied for the specified period of time at 105°C. 在 105°C 环境中, 不超过额定电压的范围下叠加额定纹波电流, 连续加载规定时间的额定电压后, 待温度恢复到 20°C 进行测量时, 应满足以下要求。 <table border="1"> <tr> <td>Test Time 测试时间</td> <td>5,000Hrs</td> </tr> <tr> <td>Capacitance Change 静电容量变化率</td> <td>Within ±20% initial value 初始值的±20%以内</td> </tr> <tr> <td>Dissipation Factor 损耗角正切</td> <td>≤200% of specified value 不大于规范值的 200%</td> </tr> <tr> <td>Leakage Current 漏电流</td> <td>≤The initial specified value 不大于规范值</td> </tr> </table>		Test Time 测试时间	5,000Hrs	Capacitance Change 静电容量变化率	Within ±20% initial value 初始值的±20%以内	Dissipation Factor 损耗角正切	≤200% of specified value 不大于规范值的 200%	Leakage Current 漏电流	≤The initial specified value 不大于规范值																			
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Shelf Life 高温贮存	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. Before the measurement, the capacitor shall be preconditioned by applying voltage according to Item 4.1 of IEC 60384-4. 在 105°C 环境中, 无负荷放置 1,000 小时后待温度恢复到 20°C, 进行试验前处理(IEC 60384-4 4.1 项)后进行测量时, 应满足以下要求。 <table border="1"> <tr> <td>Capacitance Change 静电容量变化率</td> <td>Within ±20% initial value 初始值的±20%以内</td> </tr> <tr> <td>Dissipation Factor 损耗角正切值</td> <td>≤200% of specified value 不大于规范值的 200%</td> </tr> <tr> <td>Leakage Current 漏电流</td> <td>≤The initial specified value 不大于规范值</td> </tr> </table>		Capacitance Change 静电容量变化率	Within ±20% initial value 初始值的±20%以内	Dissipation Factor 损耗角正切值	≤200% of specified value 不大于规范值的 200%	Leakage Current 漏电流	≤The initial specified value 不大于规范值																					
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Drawing(Unit: mm) 外形图



ΦD	6.3	8	10	13	16	18
P	2.5	3.5	5.0		7.5	
Φd	0.5		0.6	0.8		
α	1.0	1.5	2.0			
β	0.5					

Rated ripple current multipliers(Unit: mm) 额定纹波修正系数

Frequency 频率 (Hz)	60Hz	120Hz	300Hz	1KHz	10KHz	100KHz	
Coefficient 系数	Under 100µF	0.70	1.00	1.15	1.25	1.40	1.55
	1000 up above	0.75	1.00	1.08	1.20	1.35	1.45

The endurance of capacitors is reduced with internal heating produced by ripple current at the rate of halving the lifetime with every 5°C rise.

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, 每升温 5°C 寿命减少一半。

When long life performance is required in actual use, the rms ripple current has to be reduced.

要想保持长寿命请在使用过程中降低纹波电流。

RY Series

Standard ratings 标准品一览表

V _{DC} (V)	Cap. (μF)	φ6.3		φ8		φ10		φ13		φ16		φ18	
		φD x L	R.C	φD x L	R.C	φD x L	R.C	φD x L	R.C	φD x L	R.C	φD x L	R.C
160	2.2	6.3x11	26										
	3.3	6.3x11	33										
	4.7	6.3x11	39										
	5.6	6.3x11	41										
	6.8	6.3x11	45										
	8.2	6.3x15	55	8x11.5	60								
	10	6.3x15	58	8x11.5	62								
	12			8x11.5	68								
	15			8x15	75	10x12.5	72						
	18			8x15	80	10x12.5	80						
	22			8x20	98	10x12.5	90						
	27			8x20	110	10x16	110						
	33			8x25	135	10x20	135						
	39			8x30	160	10x20	145						
	47			8x30	175	10x25	175						
	56			8x35	205	10x25	195	13x20	195				
	68			8x40	240	10x30	230	13x20	220.000				
	82			8x50	280	10x35	270	13x20	240				
	100					10x40	325	13x25	295				
	120					10x45	375	13x30	350				
150						10x45	400	13x30	390	16x20	370		
180								13x35	455	16x25	440	18x20	410
220								13x40	530	16x31.5	540	18x25	510
270								13x50	630	16x35.5	630	18x31.5	560
330										16x40	720	18x31.5	680
390										16x45	790	18x35.5	780
470										16x50	920	18x40	900
200	2.2	6.3x11	28										
	3.3	6.3x11	35										
	4.7	6.3x11	40										
	5.6	6.3x11	43										
	6.8	6.3x15	50										
	8.2	6.3x15	58	8x11.5	60								
	10	6.3x15	62	8x11.5	65								
	12			8x15	70								
	15			8x15	80								
	18			8x20	88								
	22			8x20	95	10x16	100						
	27			8x25	120	10x16	110						
	33			8x30	140	10x20	130						
	39			8x35	150	10x20	140						
	47			8x35	180	10x25	180						
	56			8x40	220	10x30	210						
	68			8x45	260	10x30	230	13x20	220				
	82					10x35	270	13x25	260				
	100					10x40	320	13x30	310				
	120					10x45	370	13x30	340	16x20	330		
150							13x35	410	16x25	400	18x20	390	
180							13x40	480	16x31.5	490	18x25	470	
220							13x50	590	16x31.5	540	18x25	520	
270									16x35.5	630	18x31.5	630	
330									16x45	780	18x35.5	740	
390									16x50	890	18x40	850	

Note1: Case size φD x L(mm), ripple current (mA, rms) at 105°C, 120Hz. 尺寸 φD x L(mm), 纹波电流於 105°C, 120Hz

Note2: Produce custom product too, which are not found in these tables. 客户定制品不在标准品一览表内

Note: All design and specifications are for reference only and is subject to change without prior notice. If any doubt about safety for your application, Please contact us immediately for technical assistance before purchase.

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R_Y Series

■ Standard ratings 标准品一览表

V _{DC} (V)	Cap. (μF)	Φ6.3		Φ8		Φ10		Φ13		Φ16		Φ18	
		ΦD x L	R.C	ΦD x L	R.C	ΦD x L	R.C	ΦD x L	R.C	ΦD x L	R.C	ΦD x L	R.C
250	2.2	6.3x11	28										
	3.3	6.3x11	35										
	4.7	6.3x15	43	8x11.5	42								
	5.6	6.3x15	47	8x11.5	45								
	6.8	6.3x15	55	8x11.5	55								
	8.2			8x15	60	10x12.5	55						
	10			8x15	62	10x12.5	60						
	12			8x20	76	10x12.5	68						
	15			8x20	86	10x16	85						
	18			8x20	94	10x16	90						
	22			8x25	115	10x20	110						
	27			8x30	135	10x20	125						
	33			8x35	160	10x25	154						
	39			8x40	185	10x30	180						
	47			8x45	215	10x30	200	13x20	190.00				
	56			8x50	245	10x35	235	13x25	225				
	68					10x40	275	13x30	270.000				
	82					10x50	335	13x30	295	16x20	280		
	100							13x35	350	16x25	340	18x20	330
	120							13x40	390	16x31.5	400	18x25	390
150							13x45	460	16x31.5	450	18x31.5	480	
180									16x35.5	520	18x31.5	530	
220									16x40	600	18x35.5	590	
270									16x50	700	18x40	700	
330											18x45	780	
350	2.2	6.3x11	24.00	8x11.5	30								
	3.3	6.3x15	33	8x11.5	35								
	4.7			8x15	43	10x12.5	45						
	5.6			8x15	50	10x12.5	50						
	6.8			8x15	55	10x12.5	55						
	8.2			8x20	68	10x16	65						
	10			8x20	78	10x16	73						
	12			8x25	90	10x16	80						
	15			8x30	105	10x20	100						
	18			8x35	130	10x20	110	13x16	110				
	22			8x40	150	10x25	135	13x20	135				
	27			8x45	175	10x30	160	13x20	150				
	33			8x50	210	10x35	190	13x20	170				
	39					10x40	220	13x25	200	16x20	205		
	47					10x45	255	13x30	240	16x20	230		
	56					10x50	295	13x35	280	16x25	270	18x20	260
	68							13x40	330	16x25	300	18x20	290
	82							13x45	380	16x31.5	360	18x25	345
100							13x50	430	16x35.5	420	18x31.5	420	
120									16x40	490	18x35.5	485	
150									16x45	570	18x40	575	
180									16x50	650	18x45	660	

Note1: Case size ΦD x L(mm), ripple current (mA, rms) at 105°C, 120Hz. 尺寸 ΦD x L(mm), 纹波电流於 105°C, 120Hz

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RY Series

Standard ratings 标准品一览表

V _{DC} (V)	Cap. (μF)	φ6.3		φ8		φ10		φ13		φ16		φ18	
		φD x L	R.C	φD x L	R.C	φD x L	R.C	φD x L	R.C	φD x L	R.C	φD x L	R.C
400	1	6.3x11	19	8x11.5	19								
	2.2	6.3x11	26	8x11.5	30								
	3.3	6.3x15	36	8x11.5	36								
	4.7			8x15	48	10x12.5	48						
	5.6			8x15	52	10x12.5	52						
	6.8			8x20	65	10x16	65						
	8.2			8x20	69	10x16	70						
	10			8x25	85	10x20	86						
	12			8x30	105	10x20	95	13x16	95				
	15			8x35	125	10x25	120	13x16	110				
	18			8x40	145	10x25	130	13x16	120				
	22			8x45	170	10x30	155	13x20	145				
	27			8x50	195	10x35	185	13x20	165				
	33					10x40	220	13x25	195	16x20	200		
	39					10x45	250	13x30	230.00	16x20	220		
	47							13x35	270	16x25	265	18x20	255
	56							13x40	320.000	16x25	290	18x25	310
	68							13x45	365	16x31.5	350	18x25	335
	82							13x50	420	16x35.5	405	18x31.5	405
	100									16x40	475	18x35.5	475
120									16x45	545	18x40	545	
150									16x50	640	18x45	640	
450	1			8x11.5	20								
	2.2			8x11.5	28								
	3.3			8x15	40	10x12.5	45						
	4.7			8x15	50	10x12.5	52						
	5.6			8x20	63	10x16	64						
	6.8			8x20	70	10x16	70						
	8.2			8x25	84	10x16	78						
	10			8x25	93	10x20	95						
	12			8x30	110	10x20	105						
	15			8x35	145	10x25	135	13x20	130				
	18			8x40	160	10x30	155	13x20	145				
	22			8x45	190	10x35	190	13x20	170				
	27					10x40	220	13x25	200	16x20	200		
	33					10x45	250	13x30	230	16x20	220		
	39					10x50	285	13x35	270	16x25	260	18x20	255
	47							13x40	320	16x31.5	320	18x25	305
	56							13x45	370	16x31.5	350	18x25	340
	68							13x50	420	16x35.5	400	18x31.5	400
	82									16x40	470	18x35.5	465
	100									16x45	545	18x40	545
120									16x50	625	18x45	625	

Note1: Case size φD x L(mm), ripple current (mA, rms) at 105°C, 120Hz. 尺寸 φD x L(mm), 纹波电流於 105°C, 120Hz

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