

# JD Series

## 性能特点 Feature

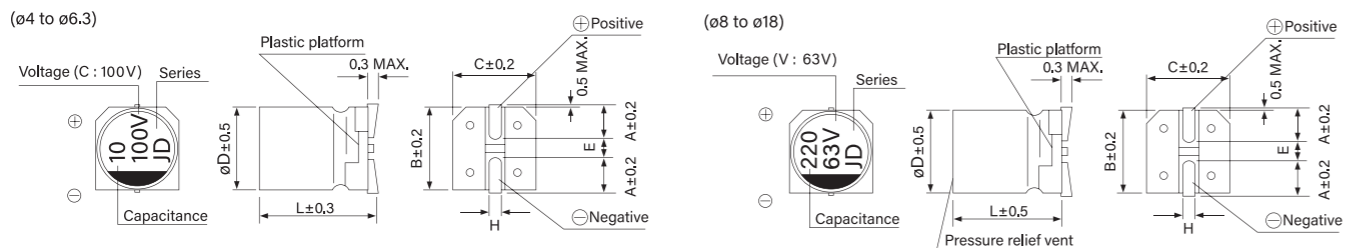
- 低阻抗、长寿命 Low impedance, Long life.
- 适用于再流焊 Reflow soldering is available.
- 适用于高密度表面组装 Available for high density surface mounting.
- 工作温度范围宽 (-55 ~ +105°C) Operating over wide temperature range.
- ROHS 指令已对应完毕 Adapted to the ROHS directive.



## 技术性能 Specifications

项目 Item	特性 Performance Characteristics																								
使用温度范围 Operating temperature range	-55~+105°C																								
额定电压范围 Rated voltage range	63~100V/160~400V																								
标称容量范围 Nominal capacitance range	2.2~1000μF																								
标称容量允许偏差 Capacitance tolerance	±20%(120Hz, +20°C)																								
漏电流 Leakage current	63~100V $I \leq 0.03C_R V_R$ (μA) or 4(μA), $CV \geq 100(160\sim400V) I \leq 0.04C_R V_R$ (μA) +100μA, 2分钟 取较大者 $C_R$ : 标称容量 (μF) $U_R$ : 额定电压 (V) (at 20°C, after 2 minutes) (whichever is greater) $C_R$ : Nominal Capacitance $U_R$ : Rated voltage(V)																								
损耗角正切值 (tg δ) Dissipation factor (+20°C~120Hz)	<table border="1"> <tr> <td><math>U_R</math>(V)</td> <td>63</td> <td>80</td> <td>100</td> <td>160</td> <td>200</td> <td>250</td> <td>400</td> </tr> <tr> <td>tg δ</td> <td>0.10</td> <td>0.10</td> <td>0.09</td> <td>0.20</td> <td>0.20</td> <td>0.20</td> <td>0.24</td> </tr> </table>	$U_R$ (V)	63	80	100	160	200	250	400	tg δ	0.10	0.10	0.09	0.20	0.20	0.20	0.24								
$U_R$ (V)	63	80	100	160	200	250	400																		
tg δ	0.10	0.10	0.09	0.20	0.20	0.20	0.24																		
耐久性 Load life	+105°C 施加额定电压条件, 电容器应满足以下要求: Application of rated voltage at 105°C, the capacitor shall meet the following requirement: øD=4, 5 and 6.3 : 2000h; øD=8, 10 : 5000h; øD=12.5, 16 and 18 : 8000h 电容量变化率 Capacitance change : ±30% 初始测量值以内 Within ±30% of the initial value 漏电流 Leakage current : ≤ 初始规定值 ≤ the initial specified value 损耗角正切值 Dissipation factor : ≤ 300% 初始规定值 ≤ 300% of the initial specified value																								
高温储存 Shelf life	+105°C 贮存 1000 小时后, 电容器应满足以上耐久性要求: After storage for 1000 hours at +105°C, the capacitors shall meet the requirement of load life above																								
低温特性 Low Temperature Stability	<table border="1"> <tr> <td><math>U_R</math>(V)</td> <td>63</td> <td>80</td> <td>100</td> <td>160</td> <td>200</td> <td>250</td> <td>400</td> </tr> <tr> <td>Z-25°C/+20°C</td> <td>2</td> <td>2</td> <td>2</td> <td>3</td> <td>3</td> <td>3</td> <td>5</td> </tr> <tr> <td>Z-40°C/+20°C</td> <td>3</td> <td>3</td> <td>3</td> <td>6</td> <td>6</td> <td>6</td> <td>6</td> </tr> </table>	$U_R$ (V)	63	80	100	160	200	250	400	Z-25°C/+20°C	2	2	2	3	3	3	5	Z-40°C/+20°C	3	3	3	6	6	6	6
$U_R$ (V)	63	80	100	160	200	250	400																		
Z-25°C/+20°C	2	2	2	3	3	3	5																		
Z-40°C/+20°C	3	3	3	6	6	6	6																		
阻抗比 Impedance Ratio(120Hz)																									
耐焊接热 Resistance to Soldering Heat	在 250°C 的条件下, 电容器在热板上保持 30 秒, 然后从热板上取出电容器, 让其在室温下恢复, 电容器应满足以下要求: The capacitors shall be kept on the hot plate maintained at 250°C for 30 seconds. After removing from the hot plate and restored at room temperature, they meet the following requirement. 电容量变化率 Capacitance change : ±10% 初始测量值以内 Within ±10% of the initial value 漏电流 Leakage current : ≤ 初始规定值 ≤ the initial specified value 损耗角正切值 Dissipation factor : ≤ 初始规定值 ≤ the initial specified value																								

## 尺寸和标记 Dimensions And Marking



\* 适用于 Apply to ø6.3x7.7

	5×5.4	6.3×5.4	6.3×7.7	6.3×10.5	8×10.5	10×10.5	12.5×13.5	12.5×16.5	16×16.5	18×16.5	18×21.5
A	2.1	2.4	2.4	2.4	2.9	3.2	4.8	4.8	5.8	6.8	6.8
B	5.3	6.6	6.6	6.6	8.3	10.3	13	13	17	19	19
C	5.3	6.6	6.6	6.6	8.3	10.3	13	13	17	19	19
E	1.3	2.2	2.2	2.2	3.1	4.5	4.4	4.4	6.4	6.4	6.4
L	5.4	5.4	7.7	10.5	10.5	10.5	13.5	16.5	16.5	16.5	21.5
H	0.5~0.8	0.5~0.8	0.5~0.8	0.5~0.8	0.8~1.1	0.8~1.1	1.1~1.4	1.1~1.4	1.1~1.4	1.1~1.4	1.1~1.4

# JD Series

## 标准评级 Standard Ratings

额定纹波电流 Rated Ripple Current (mA, +105°C, 100Hz)

电压 $U_R$ 容量 $C_R$ (μF)	63			80			100			160		200		250		400		
	Case Size øD×L (mm)	Impe- dance (Ω)	Ripple	Case Size øD×L (mm)	Impe- dance (Ω)	Ripple	Case Size øD×L (mm)	Impe- dance (Ω)	Ripple	Case Size øD×L (mm)	Ripple	Case Size øD×L (mm)	Ripple	Case Size øD×L (mm)	Ripple	Case Size øD×L (mm)	Ripple	
2.2																6.3×10.5	80	
3.3																8×12.5	150	
4.7	5×5.4	1.90	70												8×12.5	150		
10	6.3×5.4	1.20	130								10×10.5	250	10×12.5	280	10×12.5	280	10×12.5	200
15	6.3×5.4	1.20	130								12.5×13.5	350	12.5×13.5	350	12.5×13.5	350	16×16.5	400
22	6.3×7.7	0.90	150	8×10.5	1.30	130	8×10.5	1.30	130	12.5×16.5	400	12.5×16.5	400	12.5×16.5	400	16×16.5	500	
33	8×10.5	0.50	280	8×10.5	1.30	130	10×10.5	0.70	200	16×16.5	400	16×16.5	500	16×16.5	500	18×21.5	600	
47	8×10.5	0.50	280	10×10.5	0.70	200	10×10.5	0.70	200	18×16.5	500	18×16.5	550	18×21.5	600			
56	8×10.5	0.50	280	10×10.5	0.70	200	10×10.5	0.70	200	18×16.5	550	18×21.5	600					
68	10×10.5	0.25	450	10×10.5	0.70	200	12.5×13.5	0.32	450	18×21.5	600							
100	10×10.5	0.25	450	10×10.5	0.70	200	12.5×13.5	0.32	450									
150	12.5×13.5	0.15	700	12.5×13.5	0.32	450	12.5×16.5	0.26	550									
220	12.5×13.5	0.15	700	12.5×16.5	0.26	550	16×16.5	0.17	650									
330	16×16.5	0.082	900	16×16.5	0.17	650	18×16.5	0.15	850									
470	16×16.5	0.082	900	16×21.5	0.15	900	18×21.5	0.15	950									
680	18×16.5	0.080	1150	18×21.5	0.15	950												
1000	18×21.5	0.06	1250															

\* 支持客户根据需求定制 Support Customer Customization According To Demand

## 允许纹波电流的频率校正系数 Frequency Correction Factor Of Allowable Ripple Current

Frequency 频率	50Hz	120Hz	300Hz	1KHz	≥ 10KHz
Coefficient 系数	0.35	0.50	0.64	0.83	1.00