JVZ型片式铝电解电容
JVZ Series Chip Type Aluminum Electrolytic Capacitors

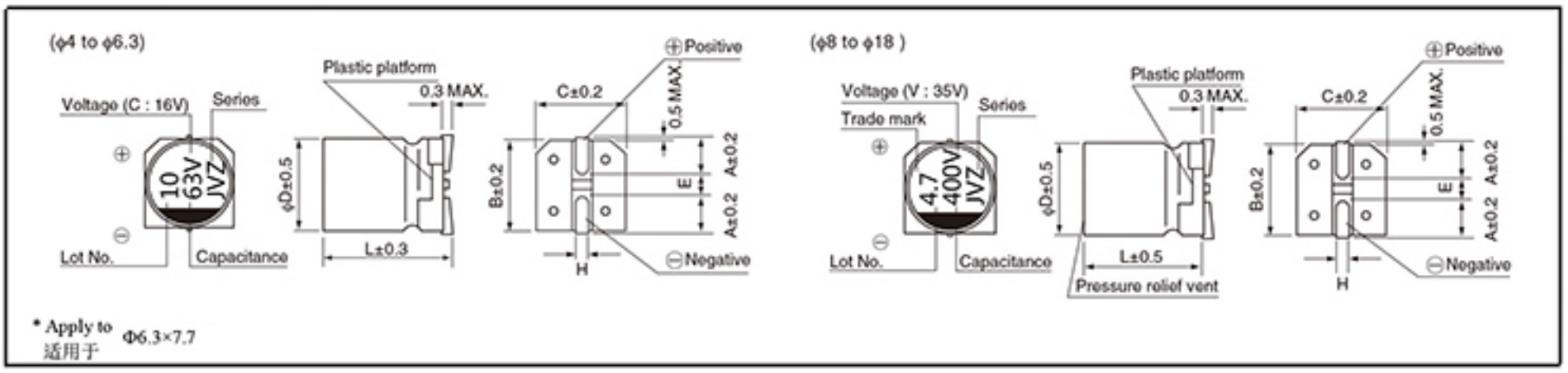
特点 Features

- 低阻抗 Low impedance.
- 适用于再流焊 Reflow soldering is available.
- 适用于高密度表面组装 vailable for high density surface mounting.
- ROHS 指令对应完毕 Adapted to the ROHS directive.

主要技术性能 Specifications

项目 Items	特性 Characteristics						
工作温度范围 Operating Temperature Range	-55℃~ +105℃(63~100V) -40℃~ +105℃(160~400V)						
额定电压范围 Rated Voltage Range	63V ~ 400V						
标称电容量范围 Nominal Capacitance Range	1 ~ 220 μF						
标称电容量允许偏差 Nominal Capacitance Tolerance	±20%（20℃，120Hz）						
漏电流 Leakage Current	63~100V I≤0.03C_RV_R or 4(μA)，CV≤1000（160~450V）I≤0.1C_RV_R+40(μA)， CV≥100（160~450V）I≤0.04C_RV_R+100uA 取较大者（2 分钟） C_R：标称电容量（μF） U_R：额定电压（V） Whichever is greater(at 20℃,After 2 minutes) C_R: Nominal Capacitance (μF) U_R: Rated voltages (V)						
损耗角正切（tgδ） Dissipation Factor (Max) 20℃, 120Hz	U_R (V)	63	100	160	200	250	400
	tgδ	0.09	0.08	0.20	0.20	0.20	0.24
耐久性 Load Life	+105℃施加额定电压 1000 小时后，电容器应满足以下要求： After 1000 hours' application of rated voltage at 105℃, the capacitor shall meet the following requirement:						
	电容量变化率 Capacitance Change	±20%初始值以内 Within ±20% of the initial value					
	损耗角正切 Dissipation Factor	≤ 200%初始规定值 Not more than 200% of the initial specified value					
	漏电流 Leakage Current	≤ 初始规定值 Not more than the initial specified value					
高温贮存 Shelf Life	+105℃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℃, the capacitors shall meet the requirement of load life above						
低温特性 Low Temperature Stability 阻抗比 Impedance Ratio (120Hz)	U_R (V)	63	100	160	200	250	400
	Z(-25℃)/Z(+20℃)	2	2	3	3	2	6
	Z(-40℃)/Z(+20℃)	3	3	3	3	3	10
耐焊接热 Resistance to Soldering Heat	在 250℃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℃ 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%初始值以内 Within ±10% of the initial value					
	损耗角正切（tgδ） Dissipation Factor	≤初始规定值 Not more than the initial specified value					
	漏电流 Leakage Current	≤ 初始规定值 Not more than the initial specified value					

尺寸图 Dimensions



(mm)

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

■ 标称电容量、额定电压、额定纹波电流与外形尺寸对应表
Nominal capacitance, rated voltage, rated ripple current and case size table

V	63			100			160		200		250		400	
μF	D×L mm	Impedance Ω	I~ mA	D×L mm	Impedance Ω	I~ mA	D×L mm	I~ mA	D×L mm	I~ mA	D×L mm	I~ mA	D×L mm	I~ mA
1.0				5×5.4	6.0	60								
2.2				5×5.4	5.0	60							6.3×11.5	80
3.3				5×5.4	5.0	60							8×12.5	150
4.7	5×5.4	3.0	100	5×5.4	4.0	80							8×12.5	150
10	6.3×5.4	2.0	150	6.3×7.7	1.8	150	10×10.5	250	10×12.5	280	10×12.5	280	10×12.5	200
22	8×10.5	1.0	200	8×10.5	1.0	200	12.5×13.5	350	12.5×13.5	350	12.5×13.5	350	16×16.5	400
33	8×10.5	1.0	200	8×10.5	1.0	200	12.5×16.5	400	12.5×16.5	400	12.5×16.5	400	16×16.5	500
47	10×10.5	0.85	300	10×10.5	0.85	300	16×16.5	500	16×16.5	500	16×16.5	500		
68	10×10.5	0.85	300	10×12.5	0.85	350								
100	10×12.5	0.5	350											
220	12.5×13.5	0.3	450											

I~=Rated ripple current (mA) (105℃, 100KHz)　I~=额定纹波电流（mA）（105℃，100KHz）

Low impedance (20℃ 100KHz)

■ 额定纹波电流的频率系数
Frequency coefficient of ripple current

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