Zkhycon
中科华源

HVB 铝电解电容器 贴片型

Aluminum electrolytic capacitor- SMD type

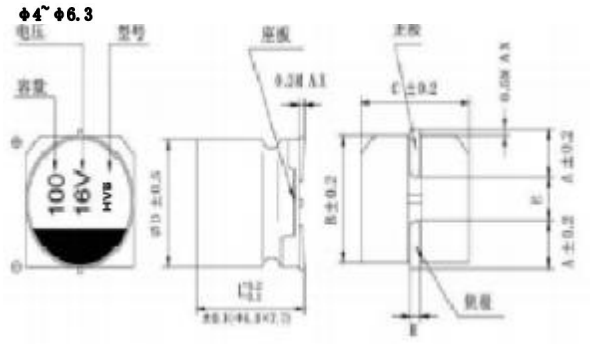
特点 Features

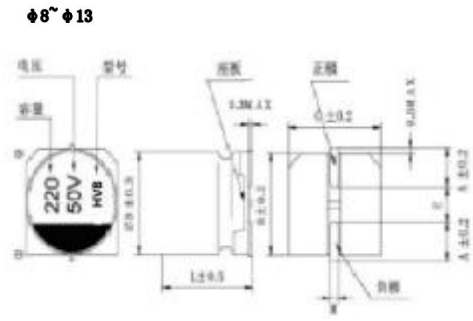
- 低 阻 抗 。Low impedance.
- 适用于再流焊。 Reflow soldering is available.
- 适用于高密度表面组装。 vailable for high density surface mounting.
- 工作温度范围(-55℃~+105℃) Operating over wide temperature range.
- RoHS指令(2002/95/EC)已对应完毕。Adapted to the RoHS directive(2002/95/EC).

主要技术性能 Specifications

项目Items	特性Performance Characteristics									
工作温度范围 Operating Temperature Range	-55℃~+105℃									
额定电压范围 Rated Voltage Range	6.3V~100V									
标称电容量劳用 Nominal Capacitance Range	4.7~2200μF									
标称电容量允许偏差 Capacitance Tolerance	±20%(20℃,120Hz)									
漏电流 Leakage Current	I≤0.01CRVR or 3(μA),取较大者(2分钟)CR:标称电容量(μF) UR:额定电压(V) I≤0.01CRVR or 3(μA) Whichever is greater(at 20℃, after 2 minutes) CR: Nominal Capacitance (μF) UR: Rated voltages (V)									
损耗角正切(tg δ) Dissipation Factor (Max) 20℃,120Hz	U_4 (M)	6.3	10	16	25	35	50	63	80	100
	tg δ	0.26	0.20	0.16	0.14	0.12	0.12	0.10	0.08	0.07
耐久性 Load Life	+105℃施加额定电压2000小时后, 电容器应满足以下要求 After 2000 hours application of rated voltage at 105℃, the capacitor shall meet the following requirement:									
	电容量变化率 Capacitance Change	±30%初始值以内 Within ±30% of the initial value								
	损耗角正切 Dissipation Factor	≤300%初始规定值 Not more than 300% 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(V)	6.3	10	16	25	35	50	63	80	100
	Z(-25℃)/Z(+20℃)	4	3	2	2	2	2	2	2	2
	Z(-55℃)/Z(+20℃)	8	5	4	3	3	3	3	3	3
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 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								

外形图及尺寸表 Case Size Table





单位 Unit:mm

	4×5.4	5×5.4	6.3×5.4	6.3×7.7	8×10.5	10×10.5	10×13	13×13.5
A	1.35	2.1	2.4	2.4	2.9	3.2	3.2	4.7
B	4.3	5.3	6.6	6.6	8.3	10.3	10.3	13
C	4.3	5.3	6.6	6.6	8.3	10.3	10.3	13
E	1.0	1.3	2.2	2.2	3.1	4.5	4.5	4.5
L	5.4	5.4	5.4	7.7	10.5	10.5	12.5	13.5
H	0.5~0.8				0.8~1.1			

标称电容量、额定电压、额定纹波电流与尺寸对应表
Nominal Capacitance, Rated Voltage, Rated Ripple Current and Case Size Table

电压WV (Vdc)	容量Cap (μF)	产品尺寸 Size	纹波电流 mArms 100KHz/105℃	阻抗Impedance(Ω) 100KHz/25℃	电压WV (Vdc)	容量Cap (μF)	产品尺寸 Size	纹波电流 mArms 100KHz/105℃	阻抗Impedance(Ω) 100KHz/25℃
6.3	22	4×5.4	80	1.8	35	10	5x5.4	150	0.76
	100	5×5.4	150	0.76		22	6.3×5.4	230	0.44
	220	6.3×5.4	230	0.44		47	6.3×7.7	280	0.34
	330	6.3×7.7	280	0.34		100	8×10.5	600	0.17
	470	8x10.5	600	0.17		220	10×10.5	850	0.09
	1000	10×10.5	850	0.09		470	10×13	1000	0.075
	1500	10×13	1000	0.075		330	13×13.5	1190	0.06
	2200	13×13.5	1190	0.06	50	4.7	4×5.4	30	5
10	22	4×5.4	80	1.8		10	5×5.4	85	1.52
	47	5×5.4	150	0.76		22	6.3x5.4	165	0.88
	100	6.3×5.4	230	0.44		47	6.3×7.7	185	0.68
	220	6.3×7.7	280	0.34		100	8×10.5	300	0.34
	470	8×10.5	600	0.17		220	10×10.5	670	0.18
	1000	10×10.5	850	0.09		330	13×13.5	650	0.12
	1500	13×13.5	1190	0.06	63	4.7	5×5.4	50	3
16	10	4×5.4	80	1.8		10	6.3×5.4	80	1.75
	22	5×5,4	150	0.76		22	6.3×7.7	120	1.2
	100	6.3×5.4	230	0.44		47	8×10.5	250	0.65
	220	6.3×7.7	280	0.34		100	10×10.5	400	0.35
	330	8×10.5	600	0.17		220	13×13.5	720	0.15
	470	10×10.5	850	0.09	80	10	6.3×7.7	60	2.4
	1000	13×13.5	1190	0.06		22	8×10.5	130	1.3
25	10	4×5.4	80	1.8		47	10×10.5	200	0.7
	22	5×5.4	150	0.76		220	13×13.5	470	0.32
	47	6.3×5.4	240	0.44	100	10	6.3×7.7	60	2.4
	100	6.3×7.7	280	0.34		22	8×10.5	130	1.3
	220	8×10.5	600	0.17		47	10×10.5	200	0.7
	470	10×10.5	850	0.09		100	13×13.5	460	0.45
	560	10×13	1000	0.075					
	680	13×13.5	1190	0.06					

频率修正系数 Frequency Coefficient

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