

系列：LHV

产品特点

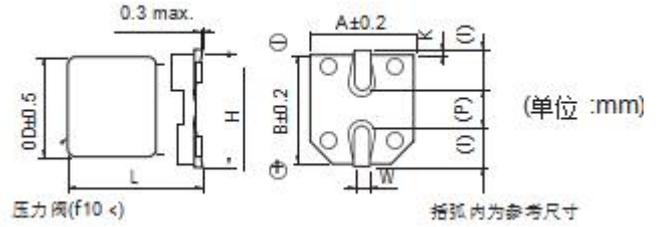
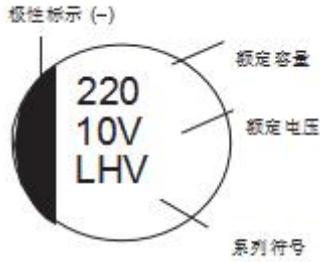
- 高温无铅回流焊产品
- 保证时间：125℃ 3000~5000 小时
- 适用于高温用途
- 高频低阻品
- 符合 RoHS 标准

项目 Items	特性 Characteristics								
工作温度范围 Operating Temperature Range	-40℃ ~+125℃								
额定电压范围 Rated Voltage Range	10V ~ 100V								
标称容量范围 Nominal Capacitance Range	22 ~ 4700μF								
标称容量允许偏差 Nominal Capacitance Tolerance	±20% (20℃, 120Hz)								
漏电流 Leakage Current	$I \leq 0.01C_R U_R$ or 3(μA), 取较大者 (2 分钟) C_R : 标称容量 (μF) U_R : 额定电压 (V) $I \leq 0.01C_R U_R$ or 3(μA) 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)	10	16	25	35	50	63	80	100
	tgδ	0.24	0.20	0.16	0.14	0.14	0.12	0.12	0.10
耐久性 Load Life	+125℃施加额定电压 3000~5000 小时后, 电容器应满足以下要求: $\Phi D=8, 10$ 为 3000 小时, $\Phi D \geq 12.5, 16, 18$ 为 5000 小时 $\Phi D=8, 10$: 3000H $\Phi D \geq 12.5, 16, 18$: 5000H After 3000~5000 hours application of rated voltage at 125℃, the capacitor shall meet the following requirement:								
	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	+125℃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 +125℃, 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)	10	16	25	35	50	63	80	100
	$Z(-25^\circ\text{C})/Z(+20^\circ\text{C})$	3	3	2	2	2	2	2	2
	$Z(-55^\circ\text{C})/Z(+20^\circ\text{C})$	8	6	4	4	4	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.								
	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							
AEC-Q200	符合 AEC-Q200								

标示

外观尺寸

例：10V.DC 220uF LHV系列



φ D	L	A, B	H.	l	W	P	K
8	10.5±0.5	8.3	10	3.4	0.8~1.1	3.1	0.70±0.20
8	12.5±0.5	8.3	10	3.4	0.8~1.1	3.1	0.70±0.20
10	10.5±0.5	10.3	12	3.5	0.8~1.1	4.5	0.70±0.20
10	12.5±0.5	10.3	12	3.5	0.8~1.1	4.5	0.70±0.20
12.5	13.5±0.5	13.5	15	4.7	1.1~1.4	4.4	0.70±0.20
12.5	16.5±0.5	13.5	15	4.7	1.1~1.4	4.4	0.70±0.20
16	16.5±0.5	17	19	5.5	1.1~1.4	6.4	0.70±0.20
16	21.5±0.5	17	19	5.5	1.1~1.4	6.4	0.70±0.20
18	16.5±0.5	19	21	6.7	1.1~1.4	6.4	0.70±0.20
18	21.5±0.5	19	21	6.7	1.1~1.4	6.4	0.70±0.20

特性一览表 1

额定电压 (V.DC)	静电容量 (±20%) (uF)	产品尺寸(mm)		电气特性			料号	最小包装 数量(PCS)
		φ D	L	额定纹波电流 (120Hz) (+125°C)	tan δ (120HZ) (+20°C)	Impedance (100KHZ) (+20°C)		
10	220	8	10.5	220	0.24	0.40	LHV1A221MF10500LP0	500
	330	10	10.5	296	0.24	0.30	LHV1A331MG10500LP0	500
	470	10	12.5	310	0.24	0.28	LHV1A471MG12500LP0	500
	470	12.5	13.5	750	0.24	0.14	LHV1A471MI13500LP0	200
	680	12.5	13.5	750	0.24	0.14	LHV1A681MI13500LP0	200
	1000	12.5	13.5	750	0.24	0.14	LHV1A102MI13500LP0	200
	2200	16	16.5	1000	0.26	0.10	LHV1A222MJ16500LP0	125
	3300	18	16.5	1200	0.28	0.10	LHV1A332MK16500LP0	125
4700	18	21.5	1500	0.30	0.058	LHV1A472MK21500LP0	75	
16	100	8	10.5	220	0.20	0.40	LHV1C101MF10500LP0	500
	220	10	10.5	296	0.20	0.30	LHV1C221MG10500LP0	500
	330	10	10.5	296	0.20	0.30	LHV1C331MG10500LP0	500
	470	12.5	13.5	750	0.20	0.14	LHV1C471MI13500LP0	200
	680	12.5	13.5	750	0.20	0.14	LHV1C681MI13500LP0	200
	1000	18	16.5	1200	0.20	0.10	LHV1C102MK16500LP0	125
	2200	18	16.5	1200	0.22	0.10	LHV1C222MK16500LP0	125

特性一览表 2

额定电压 (V.DC)	静电容量 (±20%) (uF)	产品尺寸(mm)		电气特性			料号	最小包装 数量(PCS)
		φ D	L	额定纹波电流 (120Hz) (+125℃)	tan δ (120HZ) (+20℃)	Impedance (100KHZ) (+20℃)		
25	100	8	10.5	220	0.16	0.40	LHV1E101MF10500LPO	500
	220	10	10.5	296	0.16	0.30	LHV1E221MG10500LPO	500
	330	12.5	13.5	750	0.16	0.14	LHV1E331MI13500LPO	200
	470	12.5	13.5	750	0.16	0.14	LHV1E471MI13500LPO	200
	680	16	16.5	1000	0.16	0.10	LHV1E681MJ16500LPO	125
	1000	18	21.5	1500	0.16	0.058	LHV1E102MK21500LPO	75
35	100	10	10.5	296	0.14	0.30	LHV1V101MG10500LPO	500
	220	10	10.5	296	0.14	0.30	LHV1V221MG10500LPO	500
	330	12.5	13.5	750	0.14	0.14	LHV1V331MI13500LPO	200
	470	12.5	13.5	750	0.14	0.14	LHV1V471MI13500LPO	200
	680	18	16.5	1200	0.14	0.10	LHV1V681MK16500LPO	125
50	100	10	10.5	247	0.14	0.50	LHV1H101MG10500LPO	500
	220	12.5	13.5	550	0.14	0.23	LHV1H221MI13500LPO	200
	330	16	16.5	850	0.14	0.15	LHV1H331MJ16500LPO	125
	470	18	16.5	920	0.14	0.15	LHV1H471MK16500LPO	125
63	22	8	10.5	100	0.12	0.70	LHV1J220MF10500LPO	500
	33	8	10.5	100	0.12	0.70	LHV1J330MF10500LPO	500
	47	8	10.5	100	0.12	0.70	LHV1J470MF10500LPO	500
	100	12.5	13.5	500	0.12	0.25	LHV1J101MI13500LPO	200
	220	12.5	16.5	600	0.12	0.20	LHV1J221MI16500LPO	150
80	22	8	10.5	70	0.12	0.75	LHV1K220MF10500LPO	500
	33	10	10.5	115	0.12	0.60	LHV1K330MG10500LPO	500
	47	10	10.5	115	0.12	0.60	LHV1K470MG10500LPO	500
100	22	10	10.5	115	0.10	0.60	LHV2A220MG10500LPO	500
	33	10	10.5	115	0.10	0.60	LHV2A330MG10500LPO	500
	47	12.5	13.5	450	0.10	0.35	LHV2A470MI13500LPO	200

■ Frequency coefficient of ripple current

SIZE	Frequency (HZ)				
	Cap.(uF)	120HZ	1K	10K	100K
D8~D10	10	0.66	0.86	0.96	1.00
	220~470	0.93	0.97	1.00	1.00
D12.5~D18	47~100	0.40	0.75	0.90	1.00
	220~470	0.50	0.85	0.94	1.00
	680~1000	0.60	0.87	0.95	1.00
	2200~3300	0.75	0.90	0.95	1.00
	4700	0.85	0.95	0.98	1.00