

铝电解电容器（表面贴装型）

表面贴装型

系列：JVD

高温无铅回流焊产品



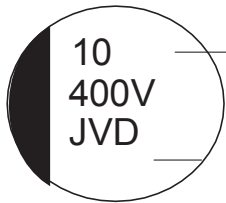
- 中高压、长寿命
- 适用于再流焊
- 适用于高密度表面组装
- 工作温度范围宽
- 已应对 ROHS 指令

项目 Items	特性 Characteristics						
工作温度范围 Operating Temperature Range	-40℃ ~ +105℃						
额定电压范围 Rated Voltage Range	160V ~ 450V						
标称电容量范围 Nominal Capacitance Range	1 ~ 100μF						
标称电容量允许偏差 Nominal Capacitance Tolerance	±20% (20℃, 120Hz)						
漏电流 Leakage Current	(160~400V) $I \leq 0.1C_R V_R + 40(\mu A)$, $C_V \geq 100$ (160~400V) $I \leq 0.04C_R V_R + 100\mu A$ 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)	160	200	250	400	420	450
	tgδ	0.20	0.20	0.20	0.24	0.24	0.26
耐久性 Load Life	+105℃施加额定电压条件，电容器应满足以下要求： ΦD=6.3为2000小时； ΦD=8, 10为5000小时； ΦD=12.5, 16和18为8000小时 ΦD=6.3:2000H; ΦD=8, 10:5000H; ΦD=12.5, 16 and 18:8000H; 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_R (V)	160	200	250	400	420	450
	Z(-25℃)/Z(+20℃)	3	3	3	5	5	5
	Z(-40℃)/Z(+20℃)	6	6	6	6	6	6
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					
AEC-Q200	符合AEC-Q200						

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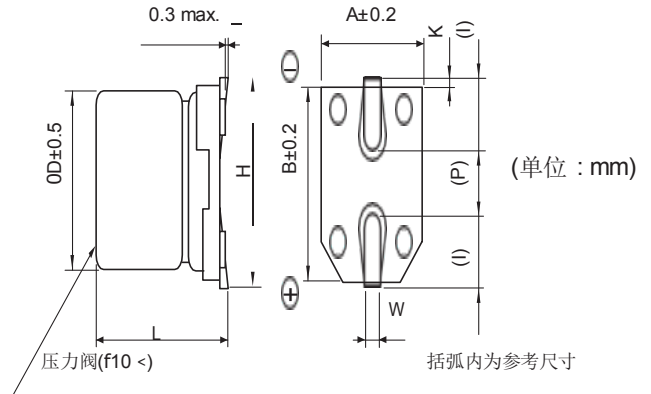
标示

例：400V.DC 10uF JVD系列



标示颜色：黑色

外观尺寸



φ D	L	A, B	H	I	W	P	K
6.3	10.5±0.3	6.6	7.8	2.4	0.5~0.8	2.2	0.35 ^{+0.15} _{0.20}
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

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 (100KHZ) (+105℃) (mA r.m.s)	tanδ (120HZ) (+20℃)		
160	1	6.3	10.5	25	0.20	JVD2C1R0ME105000LP0	800
	2.2	6.3	10.5	35	0.20	JVD2C2R2ME105000LP0	800
	3.3	6.3	10.5	45	0.20	JVD2C3R3ME105000LP0	800
	4.7	6.3	10.5	52	0.20	JVD2C4R7ME105000LP0	800
	4.7	8	10.5	60	0.20	JVD2C4R7MF105000LP0	500
	5.6	6.3	10.5	57	0.20	JVD2C5R6ME105000LP0	800
	6.8	6.3	10.5	60	0.20	JVD2C6R8ME105000LP0	800
	6.8	8	10.5	70	0.20	JVD2C6R8MF105000LP0	500
	10	8	10.5	90	0.20	JVD2C100MF105000LP0	500
	12	8	10.5	95	0.20	JVD2C120MF105000LP0	500
	15	8	10.5	110	0.20	JVD2C150MF105000LP0	500
	22	10	10.5	150	0.20	JVD2C220MG105000LP0	500
	33	10	12.5	195	0.20	JVD2C330MG125000LP0	400
	47	12.5	13.5	275	0.20	JVD2C470MI135000LP0	200
	56	12.5	13.5	300	0.20	JVD2C560MI135000LP0	200
	68	12.5	13.5	330	0.20	JVD2C680MI135000LP0	200
100	16	16.5	500	0.20	JVD2C101MJ165000LP0	125	

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		φ D	L	额定纹波电流 (100KHZ) (+105℃) (mA r.m.s)	tanδ (120HZ) (+20℃)		
200	1	6.3	10.5	22	0.20	JVD2D1R0ME105000LP0	800
	2.2	6.3	10.5	32	0.20	JVD2D2R2ME105000LP0	800
	3.3	6.3	10.5	42	0.20	JVD2D3R3ME105000LP0	800
	4.7	6.3	10.5	50	0.20	JVD2D4R7ME105000LP0	800
	4.7	8	10.5	55	0.20	JVD2D4R7MF105000LP0	500
	5.6	6.3	10.5	55	0.20	JVD2D5R6ME105000LP0	800
	6.8	6.3	10.5	55	0.20	JVD2D6R8ME105000LP0	800
	6.8	8	10.5	65	0.20	JVD2D6R8MF105000LP0	500
	10	8	10.5	85	0.20	JVD2D100MF105000LP0	500
	12	8	10.5	90	0.20	JVD2D120MF105000LP0	500
	15	8	12.5	110	0.20	JVD2D150MF125000LP0	400
	22	10	10.5	140	0.20	JVD2D220MG105000LP0	500
	33	10	12.5	185	0.20	JVD2D330MG125000LP0	400
	47	12.5	13.5	260	0.20	JVD2D470MI135000LP0	200
	56	12.5	13.5	280	0.20	JVD2D560MI135000LP0	200
	68	12.5	16.5	340	0.20	JVD2D680MI165000LP0	200
100	16	16.5	480	0.20	JVD2D101MJ165000LP0	125	
250	1	6.3	10.5	22	0.20	JVD2E1R0ME105000LP0	800
	2.2	6.3	10.5	32	0.20	JVD2E2R2ME105000LP0	800
	3.3	6.3	10.5	42	0.20	JVD2E3R3ME105000LP0	800
	4.7	6.3	10.5	50	0.20	JVD2E4R7ME105000LP0	800
	5.6	8	10.5	55	0.20	JVD2E5R6MF105000LP0	500
	6.8	8	10.5	75	0.20	JVD2E6R8MF105000LP0	500
		8	12.5	85	0.20	JVD2E6R8MF125000LP0	400
	10	8	12.5	100	0.20	JVD2E100MF125000LP0	400
	12	8	12.5	110	0.20	JVD2E120MF125000LP0	400
	15	10	12.5	150	0.20	JVD2E150MG125000LP0	400
	22	12.5	13.5	215	0.20	JVD2E220MI135000LP0	200
	33	12.5	13.5	260	0.20	JVD2E330MI135000LP0	200
	47	12.5	13.5	280	0.20	JVD2E470MI135000LP0	200
	56	16	16.5	390	0.20	JVD2E560MI165000LP0	125
	68	16	16.5	475	0.20	JVD2E680MI165000LP0	125
	100	18	16.5	620	0.20	JVD2E101MK165000LP0	125
400	1	6.3	10.5	25	0.24	JVD2G1R0ME105000LP0	800
	2.2	6.3	10.5	35	0.24	JVD2G2R2ME105000LP0	800
		8	10.5	45	0.24	JVD2G2R2MF105000LP0	500
	3.3	8	10.5	50	0.24	JVD2G3R3MF105000LP0	500
	4.7	8	10.5	60	0.24	JVD2G4R7MF105000LP0	500
		8	12.5	65	0.24	JVD2G4R7MF125000LP0	400
	5.6	10	10.5	75	0.24	JVD2G5R6MG105000LP0	500
	6.8	8	12.5	75	0.24	JVD2G6R8MF125000LP0	400
		10	10.5	82	0.24	JVD2G6R8MG105000LP0	500
		10	12.5	90	0.24	JVD2G6R8MG125000LP0	400
	10	10	12.5	110	0.24	JVD2G100MG125000LP0	400
	12	10	12.5	120	0.24	JVD2G120MG125000LP0	400
	15	12.5	13.5	150	0.24	JVD2G150MI135000LP0	200
	22	12.5	16.5	200	0.24	JVD2G220MI165000LP0	200
	33	16	16.5	290	0.24	JVD2G330MJ165000LP0	125
	47	16	16.5	345	0.24	JVD2G470MK165000LP0	125

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额定电压 (V.DC)	静电容量 (±20%) (μ F)	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 (100KHZ) (+105℃) (mA r.m.s)	$\tan\delta$ (120HZ) (+20℃)		
400	56	18	16.5	355	0.24	JVD2G560MK165000LP0	125
420	1	6.3	10.5	20	0.24	JVDW61R0ME105000LP0	800
	2.2	6.3	10.5	30	0.24	JVDW62R2ME105000LP0	800
	3.3	8	10.5	41	0.24	JVDW63R3MF105000LP0	500
	4.7	8	12.5	53	0.24	JVDW64R7MF125000LP0	400
	5.6	8	12.5	58	0.24	JVDW65R6MF125000LP0	400
	6.8	10	10.5	67	0.24	JVDW66R8MG105000LP0	500
	10	10	12.5	90	0.24	JVDW6100MG125000LP0	400
	12	12.5	13.5	115	0.24	JVDW6120MI135000LP0	200
450	1	6.3	10.5	20	0.26	JVD2W1R0ME105000LP0	800
	2.2	6.3	10.5	30	0.26	JVD2W2R2ME105000LP0	800
	3.3	8	10.5	41	0.26	JVD2W3R3MF105000LP0	500
	4.7	10	10.5	56	0.26	JVD2W4R7MG105000LP0	500
	5.6	10	10.5	67	0.26	JVD2W5R6MG105000LP0	500
	6.8	10	10.5	67	0.26	JVD2W6R8MG105000LP0	500
	10	12.5	13.5	105	0.26	JVD2W100MI135000LP0	200
	12	12.5	13.5	115	0.26	JVD2W120MI135000LP0	200
	15	12.5	13.5	125	0.26	JVD2W150MI135000LP0	200

■ Frequency coefficient of ripple current

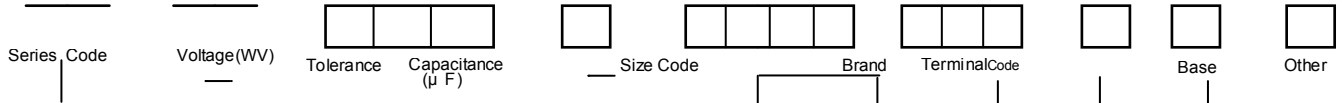
Frequency	50Hz	120Hz	300HZ	1KHz	≥ 10 KHz
Coefficient	0.35	0.50	0.64	0.83	1.00

铝电解电容器（表面贴装型）

铝电解电容器产品编码体系表

Product symbol system for Aluminum Electrolytic Capacitors

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
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Fill In Code Of Variety list

例:

Series	Code
VT	VT
JVD	JVD

Voltage	Code
4	OQ
6.3	OJ
10	1A
16	1C
25	1E
35	1V
50	1H
63	1J
80	1K
100	2A
125	2B
160	2C
180	2Z
200	2D
220	2P
250	2E
315	2F
330	2U
350	2V
400	2G
420	W6
450	2H

Cap (μ F)	Code
0.1	0R1
0.22	R22
0.33	R33
0.47	R47
1	010
2.2	2R2
3.3	3R3
4.7	4R7
10	100
22	220
33	330
47	470
100	101
220	221
270	271
330	331
390	391
470	471
560	561
680	681
1000	102
2200	222
3300	332
4700	472
10000	103
22000	223

Tolerance (%)	Code
+5	J
-5	J
+10	K
-10	K
+15	Y
-15	Y
+20	M
-20	M
+20	R
-0	R
+20	H
-5	H
+20	V
-10	V
+30	F
-0	F
+30	G
+10	G
+30	Q
-10	Q
+20	E
-15	E

Φ D	Code	L	Code
3	A	5	050
4	B	5.4	054
5	C	5.8	058
6	D	6.2	062
6.3	E	7.7	077
8	F	9	090
10	G	10.5	105
12	H	12.5	125
12.5	I	13.5	135
16	J	14	140
18	K	16.5	165
		21.5	215
		25	250
		30	300
		35	350
		40	400
		45	450
		50	500
		55	550
		60	600

Brand	Code
LH	L

Base	Code
PPA	P

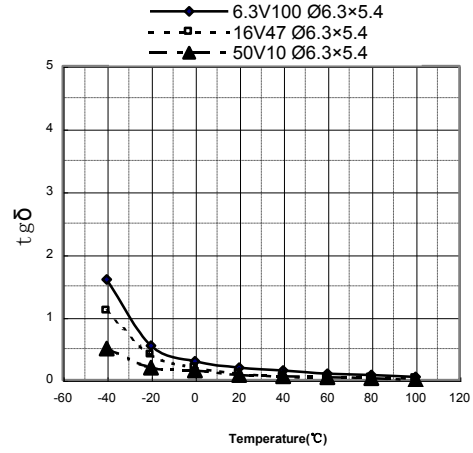
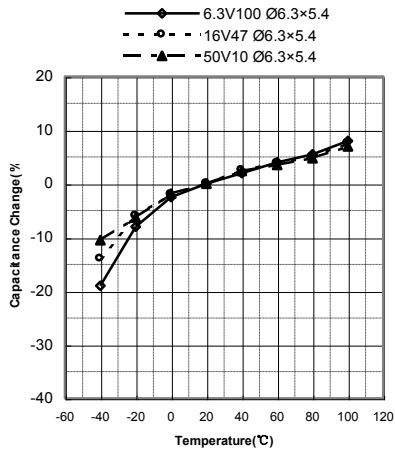
说明：系列别为二个英文字母时（如VT系列），此处(13-15码)代号为：000

例：VT 10V-220 6.3*5.4 其料号编码为：VT1A221ME054000LPO

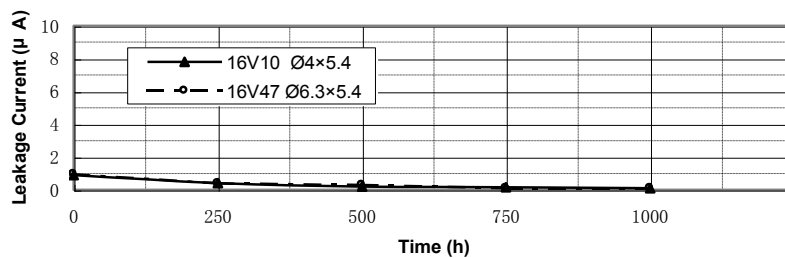
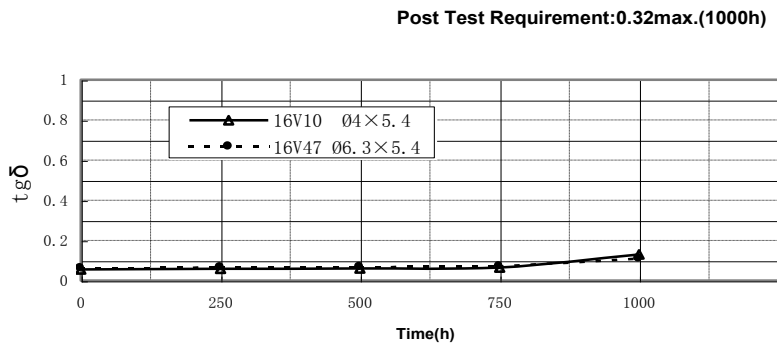
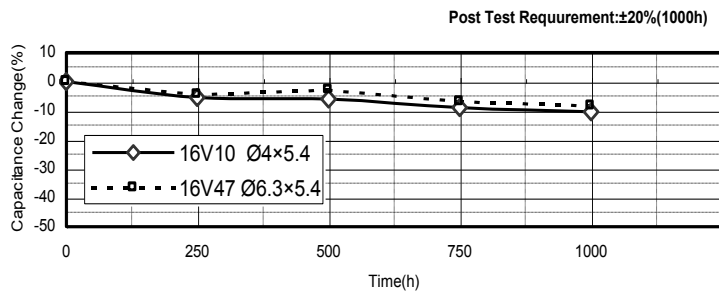
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贴片型产品温度、特性曲线

温度特性曲线 Temperature Characteristics



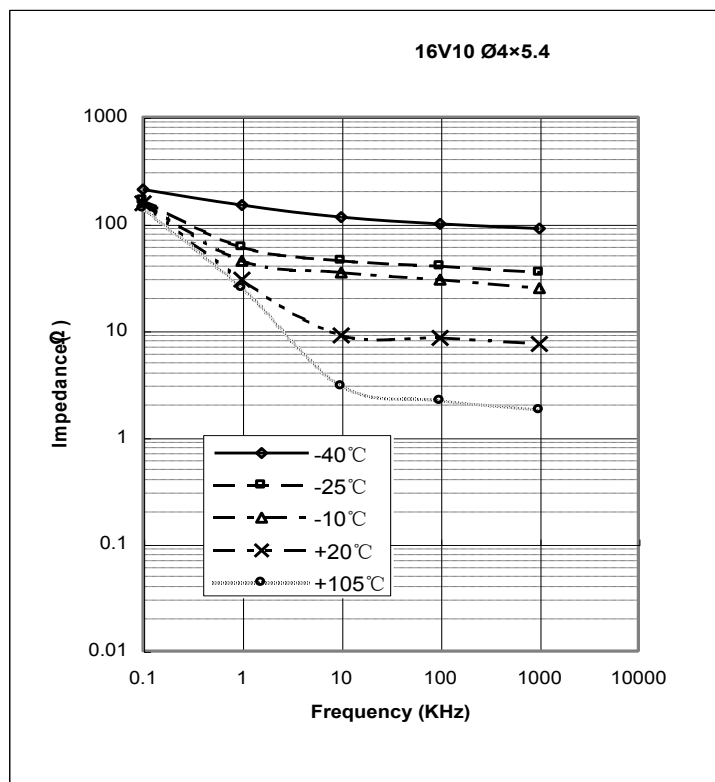
寿命曲线 Load Life Data



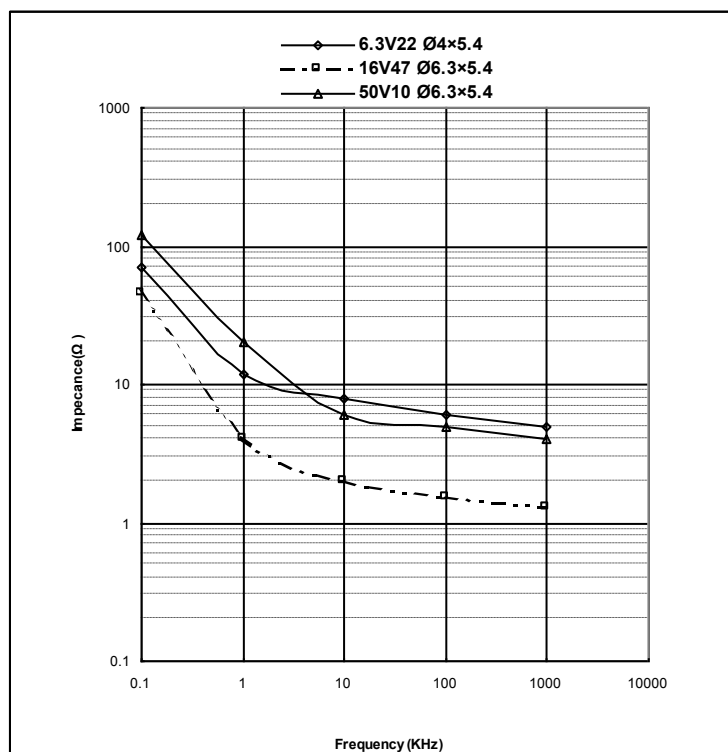
铝电解电容器（表面贴装型）

贴片型产品温度、特性曲线

温度特性曲线 Temperature Characteristics Data



频率特性曲线 Frequency Characteristics Data



铝电解电容器（表面贴装型）

■ Package quantity 包装数量

Φ D×L	Quantity / Reel 数量 / 每盘	pcs/Boxes 数量/小包装箱	pcs/Large packing cases 数量/大包装箱
4×5.4、4×5.8	2000pcs	24000pcs	48000pcs
5×5.4、5.5.8	1000pcs	12000pcs	24000pcs
6.3×5.4、6.3×5.8、6.3×7.7、8×6.2	1000pcs	10000pcs	20000pcs
8×10.5、10×7.7、10×10.5	500pcs	3500pcs	7000pcs
6.3×10.5	800pcs	8000pcs	16000pcs
8×12.5	400pcs	2800pcs	5600pcs
10×12.5	400pcs	2800pcs	5600pcs
12.5×13.5	200pcs	1200pcs	2400pcs
12.5×16.5	200pcs	1200pcs	2400pcs
16×16.5	125pcs	750pcs	1500pcs
16×21.5	125pcs	750pcs	1500pcs
18×16.5	125pcs	750pcs	1500pcs
18×21.5	125pcs	750pcs	1500pcs