

# JVD series

## ■ 特性 Features

- 105°C3000~5000H
- 低阻抗长寿命 Low impedance, long life.
- 适用于高密度表面安装 Suitable for high-density surface installation.



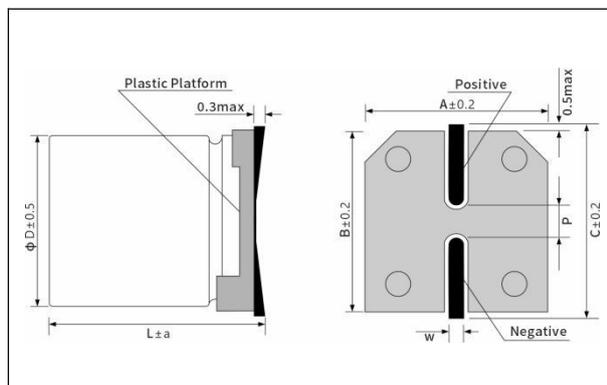
## ■ 仕様 Specifications

项目 Item	条件 Condition		性能 Performance					
使用温度范围 Operating Temperature Range	-		-55°C~+105°C					
额定电压范围 Rated Voltage Range	-		6.3~100V					
额定静电容量范围 Rated Capacitance Range	-		1.0~1500μF					
额定静电容量容许差 Capacitance Tolerance	120Hz, 20°C		±20%					
漏电流 Leakage current	施加额定电压 2 分钟后 After applying rated voltage for 2 minutes		I ≤ 0.01CV 或 3μA (以较大值为准) I ≤ 0.01CV or 3μA (whichever is greater)					
额定电压 Rated Voltage(V)	-		6.3	10	16	25	35	50
损失角正切值 Dissipation Factor	120Hz, 20°C (Max.)	tan δ	0.26	0.18	0.16	0.14	0.12	0.10
		对于超过 1000μF 的产品, 每增加 1000μF, 其值便随之增加 0.02 For products exceeding 1000μF, the value increases by 0.02 per additional 1000μF.						
温度特性 Temperature Characteristics	阻抗率 Impedance Ratio(Max.)	$Z_{(-25^{\circ}\text{C})}/Z_{(+20^{\circ}\text{C})}$	4	3	2	2	2	2
		$Z_{(-40^{\circ}\text{C})}/Z_{(+20^{\circ}\text{C})}$	8	5	4	3	3	3
耐久性 Endurance	在 105°C 下, 连续施加额定电压 5000 小时后(φ4~6.3 为 3000H), 满足以下项目 Under 105°C, apply rated voltage for 5000 hours(3000H for φ4~6.3), The capacitors shall meet the following requirements.							
	静电容量变化率 Capacitance Change	初始值的 ±30% 以内 ≤ ±30% of the initial value.						
	损失角正切值 Dissipation Factor	规格值 300% 以下 ≤ 300% of initial specified value.						
	漏电流 Leakage Current	规格值以下 ≤ Initial specified value.						
高温储存 Shelf Life	在 105°C 条件下不施加额定电压 1000 小时后, 电容器应满足与上表耐久性相同标准 After storage for 1000H at 105°C with no voltage applied, the capacitor shall meet the limits same as above endurance table.							

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## 尺寸图 Dimensions

(Unit: mm)

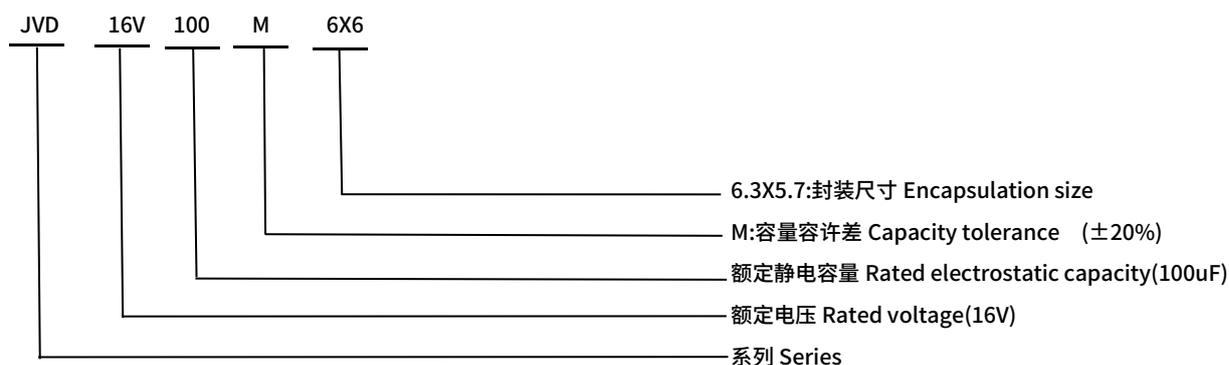


D	L	A	B	C	P	$\alpha$	W
4	5.7	4.3	4.3	5.0	1.0	$\pm 0.5$	0.5-0.8
5	5.7	5.3	5.3	6.0	1.5	$\pm 0.5$	0.5-0.8
6.3	5.7	6.6	6.6	7.3	2.0	$\pm 0.5$	0.5-0.8
6.3	7.7	6.6	6.6	7.3	2.0	$\pm 0.5$	0.5-0.8
8.0	10.5	8.3	8.3	9.0	3.1	$\pm 0.5$	0.7-1.2
10.0	10.5	10.3	10.3	11.0	4.7	$\pm 0.5$	0.7-1.2

## 纹波电流速查表 Ripple Current Quick Reference Table:

频率 Freq. 容值 Cap.	50Hz	120Hz	1kHz	10kHz	100kHz
Under 100	0.35	0.50	0.70	0.90	1.00
100~2200 $\mu\text{F}$	0.40	0.65	0.85	0.95	1.00

## 品号编码体系 Part Number Coding System (Example: 16V100 $\mu\text{F}$ )



注释: 型号中 R 表示小数点, 如 4R7 表示 4.7 $\mu\text{F}$

Note: "R" in the model number denotes a decimal point (e.g., 4R7 = 4.7 $\mu\text{F}$ )

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## ■ 电气特性 Electrical characteristics

额定电压 Rated Voltage(V)	额定静电容量 Rated Capacitance( $\mu$ F)	铝壳尺寸 Case Size $\Phi$ DXL(mm)	额定纹波电流 Rated Ripple Current (mA,105 $^{\circ}$ C,100KHz)	损失角正切值 tan $\delta$	品号 Part Number
6.3	47	4X5.7	80	0.26	JVD6.3V47M4X6
	56	5X5.7	150	0.26	JVD6.3V56M5X6
	68	5X5.7	150	0.26	JVD6.3V68M5X6
	100	5X5.7	150	0.26	JVD6.3V100M5X6
	150	6.3X5.7	230	0.26	JVD6.3V150M6X6
	220	6.3X5.7	230	0.26	JVD6.3V220M6X6
	330	6.3X7.7	280	0.26	JVD6.3V330M6X8
	470	6.3X7.7	280	0.26	JVD6.3V470M6X8
	680	8X10.5	600	0.26	JVD6.3V680M8X10
	1000	8X10.5	600	0.26	JVD6.3V1000M8X10
10	1500	10X10.5	820	0.26	JVD6.3V1500M10X10
	22	4X5.7	80	0.18	JVD10V22M4X6
	33	4X5.7	80	0.18	JVD10V33M4X6
	47	5X5.7	150	0.18	JVD10V47M5X6
	56	5X5.7	150	0.18	JVD10V56M5X6
	68	5X5.7	150	0.18	JVD10V68M5X6
	100	6.3X5.7	230	0.18	JVD10V100M6X6
	150	6.3X5.7	230	0.18	JVD10V150M6X6
	220	6.3X7.7	280	0.18	JVD10V220M6X8
	330	6.3X7.7	280	0.18	JVD10V330M6X8
	470	8X10.5	600	0.18	JVD10V470M8X10
	680	8X10.5	600	0.18	JVD10V680M8X10
16	1000	10X10.5	820	0.18	JVD10V1000M10X10
	15	4X5.7	80	0.16	JVD16V15M4X6
	22	4X5.7	80	0.16	JVD16V22M4X6
	22	5X5.7	150	0.16	JVD16V22M5X6
	33	4X5.7	80	0.16	JVD16V33M4X6
	33	5X5.7	150	0.16	JVD16V33M5X6
	47	5X5.7	150	0.16	JVD16V47M5X6
	56	6.3X5.7	230	0.16	JVD16V56M6X6
	68	6.3X5.7	230	0.16	JVD16V68M6X6
	100	6.3X5.7	230	0.16	JVD16V100M6X6
150	6.3X5.7	230	0.16	JVD16V150M6X6	

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额定电压 Rated Voltage(V)	额定静电容量 Rated Capacitance( $\mu$ F)	铝壳尺寸 Case Size $\Phi$ DXL(mm)	额定纹波电流 Rated Ripple Current (mA,105°C,100KHz)	损失角正切值 tan $\delta$	品号 Part Number
16	150	6.3X7.7	280	0.16	JVD16V150M6X8
	220	6.3X7.7	280	0.16	JVD16V220M6X8
	330	8X10.5	600	0.16	JVD16V330M8X10
	470	8X10.5	600	0.16	JVD16V470M8X10
	680	10X10.5	820	0.16	JVD16V680M10X10
25	10	4X5.7	80	0.14	JVD25V10M4X6
	15	4X5.7	80	0.14	JVD25V15M4X6
	22	4X5.7	80	0.14	JVD25V22M4X6
	22	5X5.7	150	0.14	JVD25V22M5X6
	33	5X5.7	150	0.14	JVD25V33M5X6
	47	6.3X5.7	230	0.14	JVD25V47M6X6
	56	6.3X5.7	230	0.14	JVD25V56M6X6
	68	6.3X5.7	230	0.14	JVD25V68M6X6
	100	6.3X7.7	280	0.14	JVD25V100M6X8
	150	6.3X7.7	280	0.14	JVD25V150M6X8
	150	8X10.5	600	0.14	JVD25V150M8X10
	220	8X10.5	600	0.14	JVD25V220M8X10
	330	10X10.5	820	0.14	JVD25V330M10X10
	470	10X10.5	820	0.14	JVD25V470M10X10
35	3.3	4X5.7	80	0.12	JVD35V3R3M4X6
	4.7	4X5.7	80	0.12	JVD35V4R7M4X6
	10	4X5.7	80	0.12	JVD35V10M4X6
	10	5X5.7	150	0.12	JVD35V10M5X6
	15	5X5.7	150	0.12	JVD35V15M5X6
	22	5X5.7	150	0.12	JVD35V22M5X6
	33	6.3X5.7	230	0.12	JVD35V33M6X6
	47	6.3X5.7	230	0.12	JVD35V47M6X6
	56	6.3X5.7	230	0.12	JVD35V56M6X6
	56	6.3X7.7	280	0.12	JVD35V56M6X8
	68	6.3X7.7	280	0.12	JVD35V68M6X8
	100	6.3X7.7	280	0.12	JVD35V100M6X8
	150	8X10.5	600	0.12	JVD35V150M8X10
	220	8X10.5	600	0.12	JVD35V220M8X10
	220	10X10.5	820	0.12	JVD35V220M10X10
	330	10X10.5	820	0.12	JVD35V330M10X10

# JVD series

额定电压 Rated Voltage(V)	额定静容量 Rated Capacitance( $\mu$ F)	铝壳尺寸 Case Size $\Phi$ DXL(mm)	额定纹波电流 Rated Ripple Current (mA,105°C,100KHz)	损失角正切值 tan $\delta$	品号 Part Number
35	470	10X12.5	850	0.12	JVD35V470M10X12
50	1	4X5.7	60	0.10	JVD50V1M4X6
	1.5	4X5.7	60	0.10	JVD50V1R5M4X6
	2.2	4X5.7	60	0.10	JVD50V2R2M4X6
	3.3	4X5.7	60	0.10	JVD50V3R3M4X6
	3.3	5X5.7	85	0.10	JVD50V3R3M5X6
	4.7	4X5.7	60	0.10	JVD50V4R7M4X6
	4.7	5X5.7	85	0.10	JVD50V4R7M5X6
	10	5X5.7	85	0.10	JVD50V10M5X6
	10	6.3X5.7	165	0.10	JVD50V10M6X6
	15	6.3X5.7	165	0.10	JVD50V15M6X6
	22	6.3X5.7	185	0.10	JVD50V22M6X6
	33	6.3X7.7	185	0.10	JVD50V33M6X8
	47	6.3X7.7	185	0.10	JVD50V47M6X8
	56	6.3X7.7	185	0.10	JVD50V56M6X8
	68	8X10.5	350	0.10	JVD50V68M8X10
	100	8X10.5	350	0.10	JVD50V100M8X10
	100	10X10.5	670	0.10	JVD50V100M10X10
	150	10X10.5	670	0.10	JVD50V150M10X10
220	10X12.5	720	0.10	JVD50V220M10X12	

Note1: Case size  $\Phi$ D xL(mm), ripple current (mA, rms) at 105°C, 100KHz.

Note2: Produce custom product too, which are not found in these tables.