

Aluminum Electrolytic Type / Surface Mount Type

RoHS compliance

JVD Series

HighVoltage



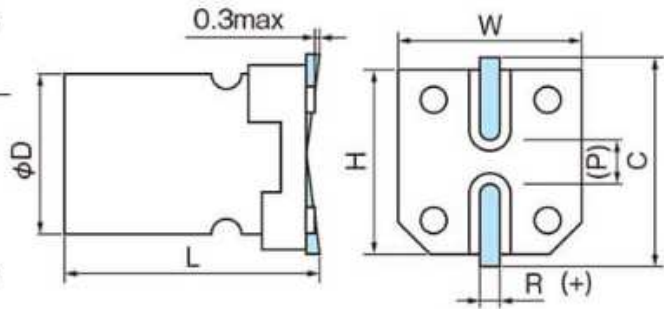
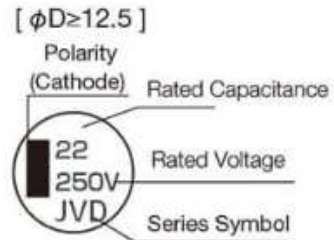
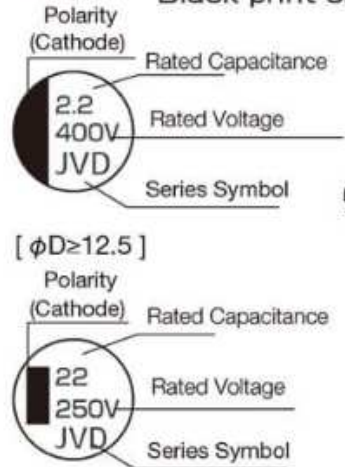
- 160 to 450V, 105°C 5,000hours
- Non solvent proof

■ Specifications

Items		Condition		Specifications				
Rated voltage (V)	(V)	-		160	200	250	400	450
Surge voltage (V)	(V)	Room temperature		200	250	300	450	500
Category temperature range (°C)		-		-40 to +105				
Capacitance tolerance (%)		120Hz/20°C		M : ±20				
Dissipation Factor(tan δ)		tanδ(max) 120Hz/20°C		0.20			0.25	
Leakage current(LC)	μA/after 2minutes (max)	CV ≤ 5.6		0.03CV + 15μA				
		CV > 5.6		0.02CV + 25μA				
Impedance ratio at low temperature	Based on the value at 120Hz, +20°C	-25°C	Z/Z _{20°C}	3	3	6	6	10
		-40°C	Z/Z _{20°C}	6	6	10	10	15
Endurance	105 °C 5,000hours rated voltage applied (With the rated ripple current)	ΔC/C		Within ±30% of the initial value				
		tanδ		Less than 300% of the specified value				
		LC		Less than the specified value				

■ Marking, Dimensions

[$\phi D \leq 10$] Black print on the case top



A pressure relief vent is provided for $\phi D=8$ or bigger (P)reference size

(Unit : mm)

$D \pm 0.5$	$L \pm 0.5$	$W \pm 0.2$	$H \pm 0.2$	$C \pm 0.2$	R	$P \pm 0.2$
8	10.5	8.3	8.3	9.2	0.7 to 1.2	3.1
10	10.5	10.3	10.3	11.2	0.7 to 1.2	4.4
10	13.5	10.3	10.3	11.2	0.7 to 1.2	4.4
12.5	13.5	13.0	13.0	14.0	1.0 to 1.4	4.4
12.5	16.0	13.0	13.0	14.0	1.0 to 1.4	4.4
16	16.5	17.0	17.0	18.0	1.0 to 1.4	6.4

■ Ripple Current Frequency Coefficient

Frequency:F(Hz)	50Hz	120Hz	300Hz	1kHz	10kHz≤F
Capacitance:C(μ F) All ITEM	0.70	1.00	1.17	1.30	1.50

■ Size, Rated Ripple Current

μF \ V	160		200		250		400		450	
1.0									8×10.5	15
1.5									8×10.5	18
2.2							8×10.5	15	8×10.5	20
3.3							8×10.5	20	10×10.5	25
4.7					8×10.5	25	8×12.5	30	10×13.5	40
							10×10.5	35		
5.6					8×10.5	30	10×10.5	40	10×13.5	50
6.8			8×10.5	30	8×12.5	35	10×10.5	45	10×13.5	55
8.2			8×10.5	35	10×10.5	40	12.5×13.5	60		
10	8×10.5	45	10×10.5	40			12.5×13.5	70	12.5×16.0	75
12	8×12.5	50			10×13.5	45				
15	10×10.5	60	10×13.5	45			12.5×16.0	95	16×16.5	105
22	10×13.5	65	12.5×13.5	60	12.5×16.0	75				
27			12.5×16.0	75			16×16.5	105		
33	12.5×13.5	70	16×16.5	95	16×16.5	95				

Case size: ϕ DxL(mm)

Rated ripple current
mA_{rms}(120Hz, 105°C)