

# Aluminum Electrolytic Type / Surface Mount Type

RoHS compliance

# VT Series

105°C Standard

High Voltage



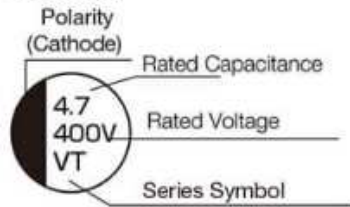
- 160 to 400V, 105°C 2,000 to 3,000hours
- Non solvent proof

## ■ Specifications

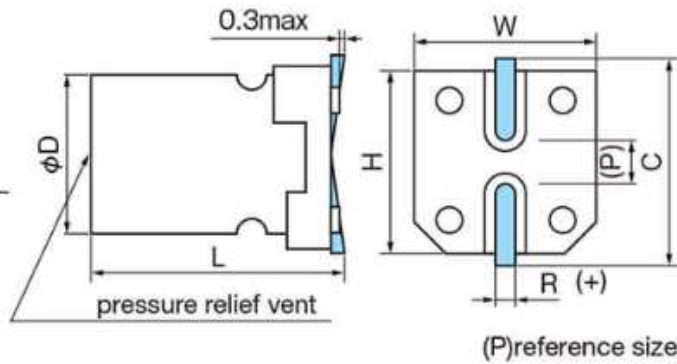
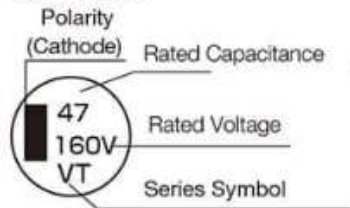
Items		Condition		Specifications			
Rated voltage	(V)	-		160	200	250	400
Surge voltage	(V)	Room temperature		200	250	300	450
Category temperature range	(°C)	-		-40 to +105			
Capacitance tolerance	(%)	120Hz/20°C		M: ±20			
Dissipation Factor	(tan δ)	tanδ(max) 120Hz/20°C		0.20			0.25
Leakage current(LC)	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 <sub>20°C</sub>	3	3	3	6
		-40°C	Z/Z <sub>20°C</sub>	6	6	6	10
Endurance	105°C rated voltage applied (With the rated ripple current)	Test		φ8 to φ10 : 2,000hours, φ12.5 to φ16 : 3,000hours			
		ΔC/C		Within ±25% of the initial value			
		tanδ		Less than 200% of the specified value			
		LC		Less than the specified value			

## ■ Marking, Dimensions

[  $\phi D \leq 10$  ]



[  $\phi D \geq 12.5$  ]



(Unit : mm)

$D^{+0.5}$	$L^{+0.5}$	$W^{+0.2}$	$H^{+0.2}$	$C^{\pm 0.2}$	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
12.5	13.5	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( $\mu$ F) All ITEM	0.70	1.00	1.17	1.30	1.50

## ■ Size, Rated Ripple Current

$\mu\text{F}$ \ V	160		200		250		400	
2.2							8×10.5	25
3.3					8×10.5	31	10×10.5	36
4.7					8×10.5	37	10×10.5	38
6.8					8×10.5	44	12.5×13.5	47
10	8×10.5	57	10×10.5	64	10×10.5	64	12.5×13.5	57
22	12.5×13.5	112	12.5×13.5	112	12.5×13.5	112	16×16.5	115
33	12.5×13.5	137	12.5×13.5	137	16×16.5	150		
47	16×16.5	180	16×16.5	180	16×16.5	180		
68	16×16.5	215	16×16.5	215				
82	16×16.5	235						

Case size:  $\phi$ DxL(mm)

Rated ripple current  
mA<sub>rms</sub>(120Hz, 105°C)