

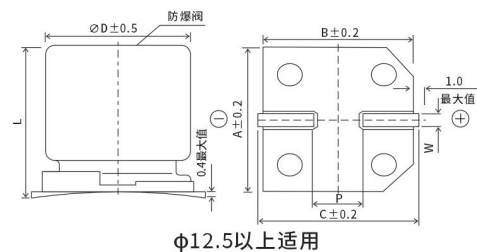
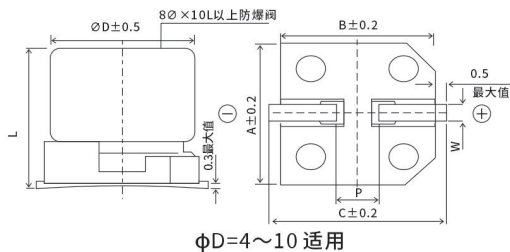
VT 系列 SERIES

- 2000h at 105°C
- Operating with wide temperature range -55~+105°C
- Switching power supplies
- Smoothing, Buffering, Filtering



Items	Characteristics														
Operating Temperature Range(°C)	4~100V:-55~+105 160~400V:-40~+105 450V:-25~+105														
Voltage Range (V)	4~450														
Capacitance Range (μF)	0.1~6800														
Capacitance Tolerance(20°C,120Hz)	±20%														
Leakage Current (μA) apppication of rated voltage	Rated Voltage (V)		4~100									160~450			
	Case size		φ4~φ10				φ12.5~φ16				φ6.3~φ16				
	Time		after 2min.									after 5min			
	Leakage Current		≤0.01CVor 3 whichever is greater				≤0.03CVor 4 whichever is greater				≤0.04CV+100				
	I:Max. leakage current (μA),C:Nominal Capacitance (μF) ,V :Rated Voltage (V)														
Dissipation Factor (20°C,120Hz)	Rated Voltage (V)		4	6.3	10	16	25	35	50	63	100	160~250	350~450		
	Tanδ(max)	φ4~φ10	0.35	0.30	0.24	0.20	0.18	0.16	0.14	0.14	0.14	0.20	0.25		
		φ12.5~φ16	0.40	0.38	0.34	0.30	0.28	0.22	0.18	0.16	0.16	0.20	0.25		
Low Temperature Characteristics (Max. Impedance Ratio at 120Hz)	Rated Voltage (V)					4	6.3	10	16	25	35	50~63	100	160~250	350~450
	Impedance Ratio ZT/Z20 (max.)	φ4~φ10	Z(-25°C)/Z(20°C)		7	4	3	2	2	2	2	3	2	3	
			Z(-55°C)/Z(20°C)		15	8	6	4	4	3	3	4	3	6	
		φ12.5~φ16	Z(-25°C)/Z(20°C)		7	5	4	3	2	2	2	2	2	4	
			Z(-55°C)/Z(20°C)		17	12	10	8	5	4	3	3	6	10	
Load Life	After 2000 hrs. application of the rated voltage at 105°C, they meet the characteristics listed below														
	Capacitance Change				Within ±20% of initial value (Within ±30% of initial value for capacitors of 10V or less)										
	Dissipation Factor				200% or less of initial specified value										
	Leakage Current				initial specified value or less										
Shelf Life	The following specifications shall be satisfied when the capacitors are restored to 20°C after exposing them for 1,000 hours at 105°Cwithout voltage applied .														
	Capacitance change				≤ ± 20% of the initial value										
	D.F.(Tanδ)				≤200% of specified value										
	Leakage current				≤200% of specified value										
Marking	Black print on the case top														

◆ Diagram of Dimensions 尺寸图



◆ Dimensions(mm) 尺寸表

D×L	4×5.4	5×5.4	6.3×5.4	6.3×7.7	8×10.5	10×10.5	10×13.5	12.5×13.5	12.5×16	16×16.5
A	4.3	5.3	6.6	6.6	8.3	10.3	10.3	13.0	13.0	17.0
B	4.3	5.3	6.6	6.6	8.3	10.3	10.3	13.0	13.0	17.0
C	5.1	5.9	7.2	7.2	9.2	11.2	11.2	13.7	13.7	18.0
P±0.2	1.0	1.5	2.0	2.0	3.1	4.4	4.4	4.4	4.4	6.4
L	5.4±0.3	5.4±0.3	5.4±0.3	7.7±0.3	10.5±0.5	10.5±0.5	13.5±0.5	13.5±0.5	16±0.5	16.5±0.5

◆ Ratings for VT Series

UR (Surge Voltage) Code	Rated Capacitance	Rated Ripple Current 105°C120Hz	Size φD×L
(V)	(μF)	(mA rms)	(mm)
4(5)0G	22	20	4×5.4
	33	25	4×5.4
		30	5×5.4
	47	30	4×5.4
		36	5×5.4
	100	49	5×5.4
		60	6.3×5.4
	150	70	6.3×5.4
	220	85	6.3×5.4
	330	100	6.3×7.7
	470	105	6.3×7.7
	680	210	8×10.5
	1000	230	8×10.5
	1500	315	10×10.5
	2200	340	10×10.5
	3300	440	12.5×13.5
6.3(7.2)0J	4700	490	10×13.5
	6800	600	12.5×13.5
	6800	650	12.5×16
		950	16×16.5
	22	23	4×5.4
	33	30	4×5.4
		32	5×5.4
	47	35	4×5.4
		38	5×5.4
	100	54	5×5.4
		65	6.3×5.4
	150	55	6.3×5.4
	220	95	6.3×5.4
		120	6.3×7.7
	330	120	6.3×7.7
10(13)1A	470	120	6.3×7.7
	680	230	8×10.5
		290	8×10.5
	1000	340	10×10.5
	1500	410	10×10.5
		450	10×13.5
	2200	500	10×13.5
		620	12.5×13.5
	3300	660	12.5×13.5
		700	12.5×16
	4700	1000	16×16.5
	22	20	4×5.4
		29	5×5.4
	33	22	4×5.4
		35	5×5.4
16(20)1C	47	38	5×5.4
		60	5×5.4
	100	70	6.3×5.4
	150	62	6.3×5.4
	220	95	6.3×5.4
		120	6.3×7.7
	330	135	6.3×7.7
		200	8×10.5
	470	120	6.3×7.7
		230	8×10.5
	680	220	8×10.5
		270	10×10.5
	1000	315	10×10.5
	1500	460	10×13.5
	2200	680	12.5×13.5
	3300	1000	16×16.5
16(20)1C	4.7	13	4×5.4
	10	19	4×5.4
	22	25	4×5.4
		32	5×5.4
	33	35	5×5.4
		45	6.3×5.4
	47	40	5×5.4
		55	6.3×5.4
	100	80	6.3×5.4
	150	105	6.3×7.7
16(20)1C	16(20)1C	120	6.3×7.7
		180	8×10.5
		220	8×10.5
		270	8×10.5
		300	10×10.5
		315	10×10.5
		340	10×10.5
		390	10×13.5
		500	12.5×13.5
		550	12.5×13.5
		750	12.5×16
		950	16×16.5
		1000	16×16.5
		14	4×5.4
		16	4×5.4
		23	5×5.4
25(32)1E	25(32)1E	32	5×5.4
		39	6.3×5.4
		35	5×5.4
		48	6.3×5.4
		60	6.3×5.4
		80	6.3×5.4
		100	6.3×7.7
		120	6.3×7.7
		140	8×10.5
		200	8×10.5
		240	8×10.5
		250	10×10.5
		280	10×10.5
		400	10×13.5
		580	12.5×13.5
		850	12.5×16
35(44)1V	35(44)1V	1050	16×16.5
		3.3	13
		4.7	15
		10	18
		25	5×5.4
		34	5×5.4
		42	6.3×5.4
		50	6.3×5.4
		58	6.3×5.4
		78	6.3×7.7
		92	6.3×7.7
		150	8×10.5
		185	8×10.5
		220	8×10.5
		250	10×10.5
		300	10×10.5
50(63)1H	50(63)1H	310	10×10.5
		375	10×13.5
		520	12.5×13.5
		530	12.5×13.5
		600	12.5×16
		750	16×16.5
		750	16×16.5
		0.1	2
		0.22	4
		0.33	4
		0.47	5
		1	8
		2.2	11
		3.3	14
		4.7	14
		19	5×5.4
50(63)1H	50(63)1H	20	5×5.4
		31	6.3×5.4
		42	6.3×5.4
		51	6.3×7.7
		60	6.3×7.7
		63	6.3×7.7
		120	8×10.5
		160	8×10.5
		180	10×10.5
		200	10×10.5

◆ Ratings for VT Series

UR (Surge Voltage) Code	Rated Capacitance	Rated Ripple Current 105°C120Hz	Size φD×L	UR (Surge Voltage) Code	Rated Capacitance	Rated Ripple Current 105°C120Hz	Size φD×L
(V)	(μF)	(mA _{Rms})	(mm)	(V)	(μF)	(mA _{Rms})	(mm)
50(63)1H	220	220	10×10.5	100(125)2A	22	84	8×10.5
		280	10×13.5			126	10×10.5
	330	295	10×13.5		33	133	10×10.5
		420	12.5×13.5			140	10×10.5
		600	16×16.5		47	160	10×13.5
	470	470	12.5×13.5			250	12.5×13.5
		520	12.5×16			180	10×13.5
		700	16×16.5		300	12.5×13.5	
680	750	16×16.5	100		380	12.5×13.5	
63(79)1J	0.1	2			4×5.4	450	16×16.5
	0.22	4			4×5.4	550	16×16.5
	0.33	4	4×5.4	160(200)2C	22	50	10×13.5
	0.47	5	4×5.4		33	95	12.5×13.5
	1	8	4×5.4		47	205	12.5×13.5
	2.2	11	4×5.4			240	16×16.5
	3.3	14	5×5.4	100	250	16×16.5	
	4.7	19	5×5.4	200(250)2D	10	75	10×13.5
	10	24	6.3×5.4		22	105	12.5×13.5
		39	6.3×7.7		33	120	12.5×13.5
22	49	6.3×7.7	47		220	16×16.5	
	98	8×10.5	250(300)2D	4.7	75	10×13.5	
33	112	8×10.5		10	75	10×13.5	
	119	8×10.5		22	105	12.5×13.5	
47	160	10×10.5		33	135	16×16.5	
	196	10×10.5	350(400)2V	4.7	85	10×13.5	
100	210	10×13.5		10	105	12.5×13.5	
	270	12.5×13.5		22	130	16×16.5	
150	225	10×13.5	400(450)2G	3.3	35	8×10.5	
220	470	12.5×13.5		4.7	40	10×13.5	
	560	16×16.5			45	10×13.5	
330	510	12.5×16		10	50	12.5×13.5	
	700	16×16.5	22	85	16×16.5		
470	750	16×16.5	450(500)2W	3.3	38	8×12.5	
100(125)2A	1	8			4×5.4	40	10×13.5
	2.2	12		5×5.4	4.7	42	10×13.5
		14		6.3×5.4		45	12.5×13.5
	3.3	20		6.3×5.4	10	55	12.5×13.5
		32		6.3×7.7		22	85
	4.7	21		6.3×5.4	3.3	40	10×13.5
		35		6.3×7.7		42	10×13.5
	10	35	6.3×7.7	4.7	45	12.5×13.5	
		77	8×10.5		55	12.5×13.5	

◆ Temperature Coefficient

Temperature(°C)	+70	+85	+105
Coefficient	1.96	1.68	1.00

◆ FREQUENCY COEFFICIENT OF ALLOWABLE RIPPLE CURRENT

Frequency			50Hz	120Hz	300Hz	1KHz	10KHz~
Coefficient	$\phi 4 \sim \phi 10$	0.1~68 μF	0.70	1.00	1.17	1.36	1.50
		100~3300 μF	0.85	1.00	1.08	1.20	1.30
	$\phi 12.5 \sim \phi 16$	~68 μF	0.75	1.00	1.35	1.57	2.00
		100~680 μF	0.80	1.00	1.23	1.34	1.50
		1000~6800 μF	0.85	1.00	1.10	1.13	1.15