

VT Series

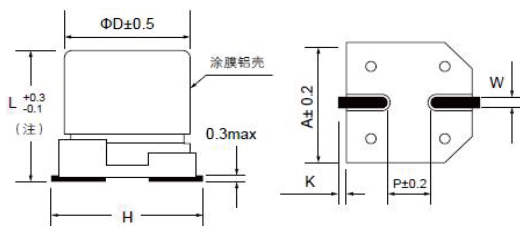


- Recommended Applications: High temperature resistant products
- Load life 2,000 hours at 125°C
- RoHS Compliant

◆ SPECIFICATIONS

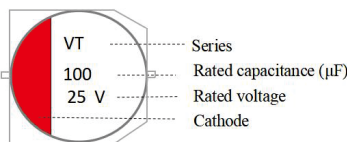
Item	Performance Characteristics	
Category Temperature Range	-55 ~ +125°C	
Working Voltage Range	2.5 ~ 50Vdc	
Capacitance Range	22 ~ 1,500 μF	
Capacitance Tolerance	±20% (at 20°C and 120Hz)	
Dissipation Factor (tanδ) (at 20°C, 120Hz)	Rated Voltage (V) 2.5~50	
	Tanδ(Max) 0.12	
Leakage Current	I=0.2CV or 300 μA, whichever is greater I : Leakage current (μA) C : Rated capacitance (μF) V : Rated voltage (V) Impress the rated voltage for 2 minutes	
Low Temperature Characteristics Impedance Ratio(MAX)	Z(-25°C) / Z(+25°C) ≤ 1.15 at 100KHz Z(-55°C) / Z(+25°C) ≤ 1.25 at 100KHz	
Endurance	The following specifications shall be satisfied when the capacitors are restored to 20°C after subjected to DC voltage with the rated ripple current is applied for 2,000 hours at 125°C.	
	Capacitance change	≅ ±20% of the initial value
	Dissipation factor(tanδ)	≅ 150% of the specified value
	Equivalent Series Resistance	≅ 150% of the specified value
Moisture Resistance	The following requirements shall be satisfied when the capacitor are restored to 20°C after exposing them for 1,000 hours at 60°C 90 to 95% RH.	
	Capacitance change	≅ ±20% of the initial value
	Dissipation factor(tanδ)	≅ 150% of the specified value
	Leakage current	≅ specified value

◆ DIMENSIONS (mm)

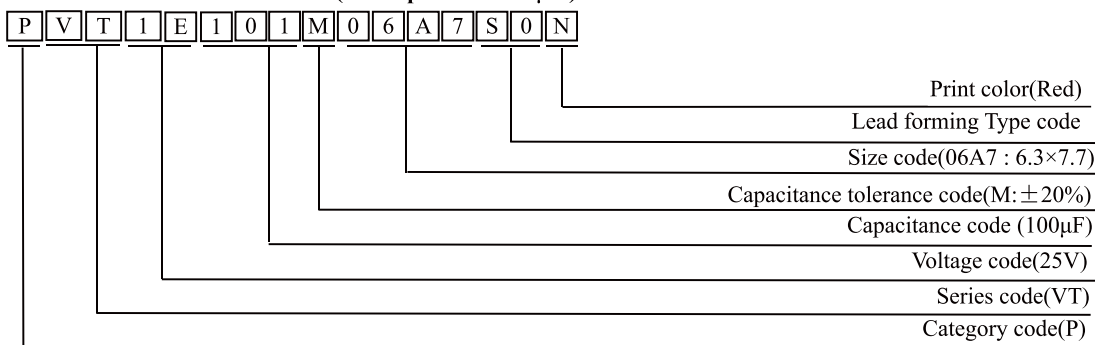


Size	D	L	A	H(Max)	W	P	K
06A6	6.3	6	6.6	7.8	0.65±0.15	2.0±0.2	0.35+0.15/-0.2
06A7	6.3	7.7	6.6	7.8	0.65±0.15	2.0±0.2	0.35+0.15/-0.2
08B4	8	10.4	8.3	10	0.9±0.2	3.1±0.2	0.7±0.2
10C1	10	10.2	10.3	12	0.9±0.2	4.7±0.2	0.7±0.2
10C2	10	12.2	10.3	12	0.9±0.2	4.7±0.2	0.7±0.2

◆ Marking



◆ PART NUMBER SYSTEM(Example : 25V 100μF)



VT Series

◆ Case size & Permissible

WV (Vdc)	Cap (μF)	Case Size ΦD×L (mm)	Max.Rated ripple current mArms@125°C100KHz	Max.Rated ripple current mArms@105°C100KHz	ESR 100~300KHz (mΩ max)
2.5	220	6.3×6	790	2500	40
	390	6.3×7.7	850	2700	30
	470	6.3×7.7	850	2700	30
	1000	8×10.4	1250	4000	25
	1500	10×10.2	1250	4000	20
		10×12.2	1700	5500	20
6.3	68	6.3×6	760	2400	40
	100	6.3×6	760	2400	35
	220	6.3×6	760	2400	35
		6.3×7.7	840	2600	30
	330	6.3×6	760	2400	35
		6.3×7.7	840	2600	35
	470	6.3×7.7	840	2600	30
		8×10.4	1100	3600	25
	680	8×10.4	1100	3600	25
		10×10.2	1200	3800	20
	820	10×10.2	1200	3800	20
		10×12.2	1700	5500	25
	1000	8×10.4	1100	3600	26
	10×12.2	1700	5500	20	
10	56	6.3×6	700	2200	40
	100	6.3×6	700	2200	40
		6.3×7.7	800	2500	33
	150	6.3×7.7	800	2500	35
	390	8×10.4	950	3000	28
	470	10×10.2	1000	3500	20
		10×12.2	1600	5300	20
	560	10×12.2	1600	5300	18
1000	10×12.2	1600	5300	18	
16	47	6.3×6	500	1600	55
	82	6.3×7.7	760	2400	30
	100	6.3×7.7	760	2400	30
	150	8×10.4	1000	3500	25
	220	8×10.4	1000	3500	25
	270	8×10.4	1000	3500	25
	330	10×12.2	1500	5050	18
	390	8×10.4	950	3000	25
	470	10×10.2	980	3100	20
		10×12.2	1600	5050	18
	560	10×12.2	1600	5050	18
	680	10×12.2	1600	5050	18
	820	10×12.2	1600	5050	18

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WV (Vdc)	Cap (μF)	Case Size ΦD×L (mm)	Max.Rated ripple current mArms@125°C100KHz	Max.Rated ripple current mArms@105°C100KHz	ESR 100~300KHz (mΩ max)
25	22	6.3×6	280	900	65
		6.3×7.7	550	1800	50
	47	6.3×5.8	400	1300	65
		6.3×7.7	550	1800	50
	68	6.3×7.7	550	1800	50
	100	8×10.4	1050	3320	40
	180	10×10.2	980	3100	35
	220	8×10.4	1000	3300	40
270	10×10.2	1000	3300	35	
35	82	6.3×7.7	470	1500	55
		8×10.4	950	3000	45
	220	10×10.2	880	2800	45
		10×12.2	1000	3200	35
50	47	8×10.4	470	1500	50
	68	10×10.2	630	2000	50
	100	10×12.2	790	2500	40

◆ RIRIPPLE CURRENT MULTIPLIERS Frequency Multipliers

Vdc	Frequency (Hz)			
	120	1K	10K	100K
2.5~50	0.05	0.3	0.7	1.0