

VZ series

- Endurance: +105°C 2,000 hours
- Standard substance
- Recommended Applications: Display Card & System Board
- RoHS Compliant and lead-free

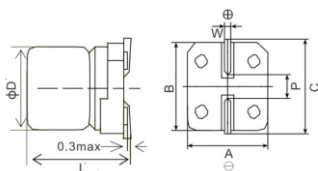


SPECIFICATIONS

Items	Characteristics									
Category Temperature Range	-55~+105℃									
Rated Working Voltage Range	2.5~100 V _{dc}									
Nominal Capacitance Range	22~2200μF									
Capacitance Tolerance	±20%(M) (at 20℃,120Hz)									
DC Leakage Current	I≤0.2CV or 500μA, whichever is greater. Where, I:Max.leakage current (μA),C:Nominal capacitance (μF),V: Rated voltage (V) (at 20℃ after 2 minutes)									
Dissipation Factor (tanδ)	Rated Voltage(V _{dc})	2.5	6.3	10	16	25	35	50	63	(at 20℃,120Hz)
	tanδ (max.)	0.08		0.12						
ESR(100kHz,20℃)	Value in characteristics table									
Temperature Characteristic (Impedance Ratio at 100kHz)	Z(+105℃)/Z(+20℃)≤1.25 Z(-55℃)/Z(+20℃)≤1.25									
Endurance	After applying rated voltage for 2,000 hours at 105℃, the capacitors shall meet the following requirements.									
	Appearance	No significant damage								
	Capacitance Change	≤±20% of the initial value								
	D.F. (tanδ)	≤150% of the initial specified value								
	ESR	≤150% of the initial specified value								
	Leakage Current	≤The initial specified value								
Humidity Test	After subjecting to 90~95% RH for 2,000 hours at 60℃ without voltage applied, the capacitors shall meet the specified values for the Endurance characteristics listed above.									
Surge Test	After subjecting to 1,000 cycles each consisting of charge with the surge voltage specified at normal temperature for 30 seconds through a protective resistor and discharge for 5 minutes 30 seconds, the capacitors shall meet the following requirements.									
	Appearance	No significant damage								
	Capacitance Change	≤±20% of the initial value								
	D.F. (tanδ)	≤150% of the initial specified value								
	ESR	≤150% of the initial specified value								
	Leakage Current	≤The initial specified value								

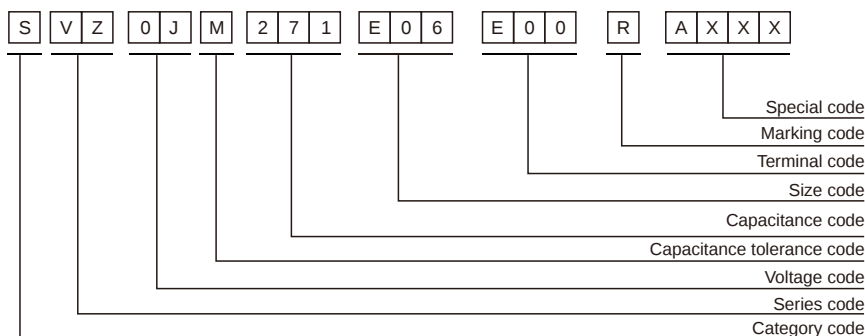
*Note: If any doubt arises, measure the leakage current after the following voltage treatment.
Voltage treatment: DC rated voltage is applied to the capacitors for 120 minutes at 105°C.

DIMENSIONS[mm]



D	6.3	8	10
P±0.2	1.9	3.1	4.5
A±0.2	6.6	8.3	10.3
B±0.2	6.6	8.3	10.3
C±0.2	7.2	9.0	11.0
W	0.5~0.8	0.7~1.1	0.7~1.1
ØD'	ØD-0.1~+0.5	ØD-0.1~+0.5	ØD-0.1~+0.5
L'	L±0.5	L±0.3	L±0.3

PART NUMBERING SYSTEM



VZ series

■ STANDARD RATINGS

VDC (SV)	Cap (μF)	Size ΦDxL(mm)	ESR (mΩ, 20°C, 100kHz) (max.)	Rated ripple current (mA rms/105°C, 100kHz)	Leakage Current (μA) (max.)	Part Number
2.5 (2.9)	330	6.3×6	20	2700	500	SVZ0EM331E06E00RAXXX
	390	6.3×6	20	2800	500	SVZ0EM391E06E00RAXXX
	470	6.3×6	20	2900	500	SVZ0EM471E06E00RAXXX
	560	6.3×6	20	3000	500	SVZ0EM561E06E00RAXXX
	680	6.3×9	15	4300	500	SVZ0EM681E09E00RAXXX
6.3 (7.2)	220	6.3×6	20	2800	500	SVZ0JM221E06E00RAXXX
	270	6.3×6	20	3000	500	SVZ0JM271E06E00RAXXX
	330	6.3×6	20	2100	500	SVZ0JM331E06E00RAXXX
	470	6.3×9	15	3500	592	SVZ0JM471E09E00RAXXX
	560	6.3×9	15	3700	706	SVZ0JM561E09E00RAXXX
	1000	8×11.5	15	4300	1260	SVZ0JM102FBRE00RAXXX
	1500	8×11.5	15	4400	1890	SVZ0JM152FBRE00RAXXX
	2200	10×12.5	15	5600	2772	SVZ0JM222GCRE00RAXXX
10 (11.5)	120	6.3×6	30	2700	500	SVZ1AM121E06E00RAXXX
	220	6.3×6	30	2700	500	SVZ1AM221E06E00RAXXX
	330	6.3×9	20	3000	500	SVZ1AM221E09E00RAXXX
	330	6.3×9	20	3100	660	SVZ1AM331E09E00RAXXX
	470	6.3×9	30	3400	940	SVZ1AM471E09E00RAXXX
	560	8×9.5	22	3400	940	SVZ1AM471F9RE00RAXXX
	560	8×11.5	20	3600	1120	SVZ1AM561FBRE00RAXXX
	1000	10×12.5	20	5000	1120	SVZ1AM561GCRE00RAXXX
	1000	8×11.5	15	4200	2000	SVZ1AM102FBRE00RAXXX
	1500	10×12.5	15	4400	2000	SVZ1AM102GCRE00RAXXX
16 (18.4)	47	6.3×6	40	1700	500	SVZ1CM470E06E00RAXXX
	68	6.3×6	40	2000	500	SVZ1CM680E06E00RAXXX
	100	6.3×6	30	2400	500	SVZ1CM101E06E00RAXXX
	150	6.3×6	30	2400	500	SVZ1CM151E06E00RAXXX
	150	6.3×9	25	2600	500	SVZ1CM151E09E00RAXXX
	180	6.3×6	60	2500	576	SVZ1CM181E06E00RAXXX
	180	6.3×9	25	2700	576	SVZ1CM181F09E00RAXXX
	220	6.3×9	25	2500	704	SVZ1CM221E09E00RAXXX
	270	6.3×9	25	2600	864	SVZ1CM271E09E00RAXXX
	270	8×9.5	25	2800	864	SVZ1CM271F9RE00RAXXX
	330	6.3×9	25	2600	1056	SVZ1CM331E09E00RAXXX
	330	8×11.5	20	4000	1056	SVZ1CM331FBRE00RAXXX
	560	10×12.5	20	5000	1056	SVZ1CM331GCRE00RAXXX
	560	8×11.5	20	3500	1792	SVZ1CM561FBRE00RAXXX
	680	10×12.5	20	4000	2176	SVZ1CM681GCRE00RAXXX
	1000	10×12.5	20	4100	3200	SVZ1CM102GCRE00RAXXX
25 (28.8)	22	6.3×6	80	1600	500	SVZ1EM220E06E00RAXXX
	27	6.3×6	50	1100	500	SVZ1EM270E06E00RAXXX
	47	6.3×6	50	1800	500	SVZ1EM470E06E00RAXXX
	47	6.3×9	35	2000	500	SVZ1EM470E09E00RAXXX
	56	6.3×6	50	1800	500	SVZ1EM560E06E00RAXXX
	68	6.3×6	50	1800	500	SVZ1EM680E06E00RAXXX
	100	6.3×9	30	2400	500	SVZ1EM101E09E00RAXXX
	100	6.3×6	50	2100	500	SVZ1EM101E06E00RAXXX
	150	6.3×9	30	2500	750	SVZ1EM151E09E00RAXXX
	220	6.3×9	30	2500	1100	SVZ1EM221E09E00RAXXX
	330	8×11.5	30	2600	1100	SVZ1EM221FBRE00RAXXX
	330	10×12.5	22	2800	1650	SVZ1EM331GCRE00RAXXX
	330	8×11.5	30	2700	500	SVZ1EM331FBRE00RAXXX
	470	8×11.5	30	2800	2350	SVZ1EM471FBRE00RAXXX
	560	10×12.5	22	3100	2350	SVZ1EM471GCRE00RAXXX
	680	10×12.5	22	3300	2800	SVZ1EM561GCRE00RAXXX
	680	10×12.5	22	3300	3400	SVZ1EM681GCRE00RAXXX
35 (40.3)	22	6.3×6	60	1100	500	SVZ1VM220E06E00RAXXX
	27	6.3×6	60	1100	500	SVZ1VM270E06E00RAXXX
	33	6.3×6	60	1100	500	SVZ1VM330E06E00RAXXX
	47	6.3×9	50	1500	500	SVZ1VM470E09E00RAXXX
	47	6.3×6	45	1100	500	SVZ1VM470E06E00RAXXX
	68	6.3×6	45	1100	500	SVZ1VM680E06E00RAXXX
	68	6.3×9	40	1800	500	SVZ1VM680E09E00RAXXX
	100	6.3×9	40	2100	700	SVZ1VM101E09E00RAXXX
	150	8×9.5	40	2800	700	SVZ1VM101F9RE00RAXXX
	150	8×11.5	30	3000	700	SVZ1VM101FBRE00RAXXX
	220	8×11.5	30	3000	1050	SVZ1VM151FBRE00RAXXX
	270	8×11.5	30	2400	1540	SVZ1VM221FBRE00RAXXX
	270	10×12.5	30	2500	1890	SVZ1VM271FBRE00RAXXX
	330	10×12.5	30	2700	1890	SVZ1VM271GCRE00RAXXX
	330	10×12.5	30	2700	2310	SVZ1VM331GCRE00RAXXX
	470	10×12.5	30	3000	3290	SVZ1VM471GCRE00RAXXX
50 (57.5)	22	6.3×6	80	800	500	SVZ1HM220E06E00RAXXX
	33	6.3×6	80	850	500	SVZ1HM330E06E00RAXXX
	47	6.3×9	60	1400	500	SVZ1HM470E09E00RAXXX
	68	8×11.5	30	2000	680	SVZ1HM680FBRE00RAXXX
	82	10×12.5	30	2000	820	SVZ1HM820GCRE00RAXXX
	100	8×11.5	30	2000	820	SVZ1HM820FBRE00RAXXX
	100	8×11.5	30	2000	1000	SVZ1HM101FBRE00RAXXX
	120	10×12.5	30	2100	1000	SVZ1HM101GCRE00RAXXX
	150	10×12.5	30	2000	1200	SVZ1HM121FBRE00RAXXX
	220	10×12.5	30	2100	1500	SVZ1HM151GCRE00RAXXX
				2300	2200	SVZ1HM221GCRE00RAXXX

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VDC (SV)	Cap (μ F)	Size Φ D $\times$ L(mm)	ESR (m Ω ,20°C,100kHz) (max.)	Rated ripple current (mA _{rms} /105°C,100kHz)	Leakage Current (μ A)(max.)	Part Number
63 (72.5)	22	6.3 $\times$ 6	80	450	500	SVZ1JM220E06E00RAXXX
	33	6.3 $\times$ 9	60	500	500	SVZ1JM330E09E00RAXXX
	47	8 $\times$ 9.5	60	1000	592	SVZ1JM470F9RE00RAXXX
	56	8 $\times$ 11.5	40	1400	706	SVZ1JM560FBRE00RAXXX
	100	10 $\times$ 12.5	40	1600	1260	SVZ1JM101GCRE00RAXXX
80 (92.0)	27	8 $\times$ 11.5	50	600	500	SVZ1BM270FBRE00RAXXX
	47	10 $\times$ 12.5	50	900	752	SVZ1BM470GCRE00RAXXX
	68	10 $\times$ 12.5	50	900	1088	SVZ1BM680GCRE00RAXXX
100 (115.0)	22	8 $\times$ 11.5	50	600	500	SVZ1KM220FBRE00RAXXX
	47	10 $\times$ 12.5	50	900	940	SVZ1KM470GCRE00RAXXX

Specifications subject to change without notice.