

RT series

STANDARD RATINGS

WV (Vdc)	Cap (μF)	Size DxL(mm)	ESR (mΩ, 20°C, 100kHz) (max.)	Rated ripple current (mA rms/125°C, 100kHz)	Leakage Current (μA)(max.)	Part Number
2.5	560	6.3x8	15	1200	500	SRT0EM561E08O00RAXXX
	680	6.3x8	15	1200	500	SRT0EM681E08O00RAXXX
	820	6.3x9	15	1200	500	SRT0EM821E09O00RAXXX
	1200	8x9	17	1300	600	SRT0EM122F09O00RAXXX
6.3	330	6.3x8	15	1100	500	SRT0JM331E08O00RAXXX
	470	6.3x8	15	1100	592	SRT0JM471E08O00RAXXX
	470	8x9	17	1300	592	SRT0JM471F09O00RAXXX
	560	6.3x8	15	1100	706	SRT0JM561E08O00RAXXX
	680	8x11	15	1400	857	SRT0JM681F11O00RAXXX
	820	8x11	15	1400	1033	SRT0JM821F11O00RAXXX
	1000	8x11	15	1500	1260	SRT0JM102F11O00RAXXX
	1200	8x11	15	1500	1512	SRT0JM122F11O00RAXXX
	1500	10x12	15	1700	1890	SRT0JM152G12O00RAXXX
	10	220	6.3x8	15	900	500
270		6.3x8	15	900	540	SRT1AM271E08O00RAXXX
330		6.3x10	15	1000	660	SRT1AM331E10O00RAXXX
470		8x11	15	1200	940	SRT1AM471F11O00RAXXX
560		8x11	15	1200	1120	SRT1AM561F11O00RAXXX
680		8x11	15	1300	1360	SRT1AM681F11O00RAXXX
820		8x11	15	1300	1640	SRT1AM821F11O00RAXXX
1000		10x12	15	1400	2000	SRT1AM102G12O00RAXXX
1200		10x12	15	1400	2400	SRT1AM122G12O00RAXXX
1500		10x12	15	1600	3000	SRT1AM152G12O00RAXXX
16	100	6.3x8	20	800	500	SRT1CM101E08O00RAXXX
	180	6.3x8	20	800	576	SRT1CM181E08O00RAXXX
	220	6.3x10	20	890	704	SRT1CM221E10O00RAXXX
	270	8x11	17	900	864	SRT1CM271F11O00RAXXX
	330	6.3x10	17	800	1056	SRT1CM331E10O00RAXXX
	470	8x11	17	900	1504	SRT1CM471F11O00RAXXX
	560	10x12	17	1200	1792	SRT1CM561G12O00RAXXX
	680	10x12	17	1200	2176	SRT1CM681G12O00RAXXX
	820	10x12	17	1300	2624	SRT1CM821G12O00RAXXX
	1000	10x12	17	1300	3200	SRT1CM102G12O00RAXXX
25	68	6.3x7	27	600	500	SRT1EM680E07O00RAXXX
	82	6.3x7	27	600	500	SRT1EM820E07O00RAXXX
	100	6.3x8	27	600	500	SRT1EM101E08O00RAXXX
	100	8x11	25	800	500	SRT1EM101F11O00RAXXX
	120	6.3x10	25	700	600	SRT1EM121E10O00RAXXX
	180	8x9	27	600	900	SRT1EM181F09O00RAXXX
	220	8x11	25	800	1100	SRT1EM221F11O00RAXXX
	220	10x12	25	900	1100	SRT1EM221G12O00RAXXX
	270	8x11	25	800	1350	SRT1EM271F11O00RAXXX
	330	10x12	25	900	1650	SRT1EM331G12O00RAXXX
	470	8x16	25	900	2350	SRT1EM471F16O00RAXXX
	470	10x12	25	1000	2350	SRT1EM471G12O00RAXXX
	560	10x12	25	1000	2800	SRT1EM561G12O00RAXXX
35	47	6.3x7	55	400	500	SRT1VM470E07O00RAXXX
	56	6.3x7	55	400	500	SRT1VM560E07O00RAXXX
	68	6.3x7	55	400	500	SRT1VM680E07O00RAXXX
	82	6.3x7	55	400	574	SRT1VM820E07O00RAXXX
	100	6.3x10	45	500	700	SRT1VM101E10O00RAXXX
	150	10x12	35	700	1050	SRT1VM151G12O00RAXXX
	220	8x11	35	600	1540	SRT1VM221F11O00RAXXX
	220	10x12	35	700	1540	SRT1VM221G12O00RAXXX
	270	10x12	35	700	1890	SRT1VM271G12O00RAXXX
	330	10x12	35	700	2310	SRT1VM331G12O00RAXXX

Specifications subject to change without notice.

VZ series

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

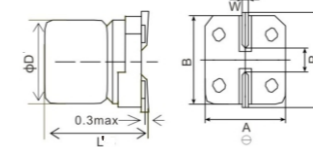


SPECIFICATIONS

Items	Characteristics	
Category Temperature Range	-55~+105°C	
Rated Working Voltage Range	2.5~100 V <sub>dc</sub>	
Nominal Capacitance Range	22~2200μF	
Capacitance Tolerance	±20%(M) (at 20°C, 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°C after 2 minutes)	
Dissipation Factor (tan δ)	Rated Voltage(V <sub>dc</sub> )	2.5 6.3 10 16 25 35 50 63 80 100
	Dissipation Factor (Max.)	0.08 0.12 0.15 (at 20°C, 120Hz)
ESR(100kHz, 20°C)	Value in characteristics table	
Temperature Characteristics (Impedance Ratio at 100kHz)	Z(+105°C)/Z(+20°C) 1.25 Z(-55°C)/Z(+20°C) 1.25	
Endurance	After applying rated voltage for 2,000 hours at 105°C, the capacitors shall meet the following requirements.	
	Appearance	No significant damage
	Capacitance Change	±20% of the initial value
	Dissipation Factor	150% of the initial specified value
	ESR	150% of the initial specified value
Humidity Test	After subjecting 90 ~ 95% RH for 2,000 hours at 60 °no voltage, The capacitors shall meet the requirement as Endurance.	
	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.	
Surge Test	Appearance	No significant damage
	Capacitance Change	±20% of the initial value
	Dissipation Factor	150% of the initial specified value
	ESR	150% of the initial specified value
	Leakage Current	The initial specified value

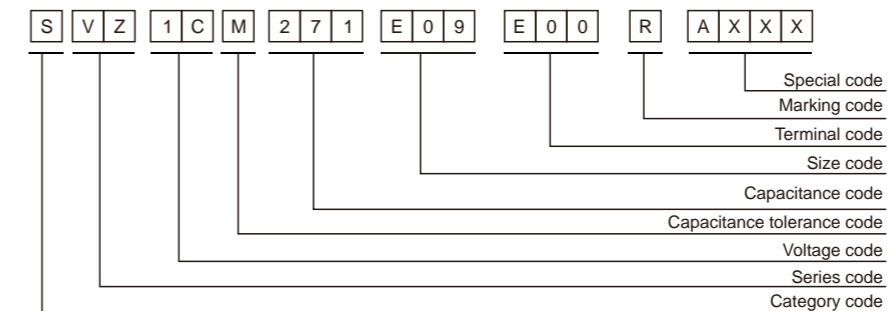
\*Note: If any doubt arises, measure the leakage current after the following voltage treatment.  
Voltage treatment: DC rated voltage is applied to the capacitors for 120 minutes at 105°C.

DIMENSIONS[mm]



Size Code	6.3	8	10
P±0.2	1.9	3.1	4.5
W±0.2	6.6	8.3	10.3
H±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		
L'	L±0.5		

PART NUMBERING SYSTEM



**VZ series**

■ STANDARD RATINGS

WV (Vdc)	Cap (µF)	Size DxD(mm)	ESR (mΩ, 20°C, 100kHz) (max.)	Rated ripple current (mArms/105°C, 100kHz)	Leakage Current (µA)(max.)	Part Number	
2.5	220	6.3x4.5	20	2700	500	SVZ0EM221E4RE00RAXXX	
	330	6.3x4.5	20	2700	500	SVZ0EM331E4RE00RAXXX	
	330	6.3x6	20	2700	500	SVZ0EM331E06E00RAXXX	
	390	6.3x6	20	2800	500	SVZ0EM391E06E00RAXXX	
	470	6.3x6	20	2900	500	SVZ0EM471E06E00RAXXX	
	560	6.3x6	20	3000	500	SVZ0EM561E06E00RAXXX	
	680	6.3x9	15	4300	500	SVZ0EM681E09E00RAXXX	
6.3	220	6.3x4.5	20	2700	500	SVZ0JM221E4RE00RAXXX	
	220	6.3x6	20	2800	500	SVZ0JM221E06E00RAXXX	
	270	6.3x6	20	3000	500	SVZ0JM271E06E00RAXXX	
	330	6.3x6	20	2100	500	SVZ0JM331E06E00RAXXX	
	470	6.3x9	15	3500	592	SVZ0JM471E09E00RAXXX	
	560	6.3x9	15	3700	706	SVZ0JM561E09E00RAXXX	
	1000	8x11.5	15	4300	1260	SVZ0JM102FBRE00RAXXX	
	1500	8x11.5	15	4400	1890	SVZ0JM152FBRE00RAXXX	
	2200	10x12.5	15	5600	2772	SVZ0JM222GCRE00RAXXX	
	10	100	6.3x4.5	50	2500	500	SVZ1AM101E4RE00RAXXX
120		6.3x6	30	2700	500	SVZ1AM121E06E00RAXXX	
220		6.3x6	30	2700	500	SVZ1AM221E06E00RAXXX	
220		6.3x9	20	3000	500	SVZ1AM221E09E00RAXXX	
330		6.3x9	20	3100	660	SVZ1AM331E09E00RAXXX	
470		6.3x9	30	3400	940	SVZ1AM471E09E00RAXXX	
470		8x9.5	22	3400	940	SVZ1AM471F9RE00RAXXX	
560		8x11.5	20	3600	1120	SVZ1AM561FBRE00RAXXX	
560		10x12.5	20	5000	1120	SVZ1AM561GCRE00RAXXX	
1000		8x11.5	15	4200	2000	SVZ1AM102FBRE00RAXXX	
1000		10x12.5	15	4400	2000	SVZ1AM102GCRE00RAXXX	
1500		10x12.5	15	4400	3000	SVZ1AM152GCRE00RAXXX	
16		47	6.3x4.5	50	2000	500	SVZ1CM470E4RE00RAXXX
	47	6.3x6	40	1700	500	SVZ1CM470E06E00RAXXX	
	68	6.3x6	40	2000	500	SVZ1CM680E06E00RAXXX	
	100	6.3x4.5	50	2000	500	SVZ1CM101E4RE00RAXXX	
	100	6.3x6	30	2400	500	SVZ1CM101E06E00RAXXX	
	120	6.3x4.5	50	2000	500	SVZ1CM121E4RE00RAXXX	
	150	6.3x6	30	2400	500	SVZ1CM151E06E00RAXXX	
	150	6.3x9	25	2600	500	SVZ1CM151E09E00RAXXX	
	180	6.3x6	60	2500	576	SVZ1CM181E06E00RAXXX	
	180	6.3x9	25	2700	576	SVZ1CM181E09E00RAXXX	
	220	6.3x9	25	2500	704	SVZ1CM221E09E00RAXXX	
	270	6.3x9	25	2600	864	SVZ1CM271E09E00RAXXX	
	270	8x9.5	25	2800	864	SVZ1CM271F9RE00RAXXX	
	330	6.3x9	25	2600	1056	SVZ1CM331E09E00RAXXX	
	330	8x11.5	20	4000	1056	SVZ1CM331FBRE00RAXXX	
	330	10x12.5	20	5000	1056	SVZ1CM331GCRE00RAXXX	
	560	8x11.5	20	3500	1792	SVZ1CM561FBRE00RAXXX	
	680	10x12.5	20	4000	2176	SVZ1CM681GCRE00RAXXX	
	1000	10x12.5	20	4100	3200	SVZ1CM102GCRE00RAXXX	
	25	22	6.3x4.5	100	400	500	SVZ1EM220E4RE00RAXXX
22		6.3x6	80	1600	500	SVZ1EM220E06E00RAXXX	
27		6.3x6	50	1100	500	SVZ1EM270E06E00RAXXX	
33		6.3x4.5	100	400	500	SVZ1EM330E4RE00RAXXX	
47		6.3x4.5	100	400	500	SVZ1EM470E4RE00RAXXX	
47		6.3x6	50	1800	500	SVZ1EM470E06E00RAXXX	
47		6.3x9	35	2000	500	SVZ1EM470E09E00RAXXX	
56		6.3x4.5	60	1000	500	SVZ1EM560E4RE00RAXXX	
56		6.3x6	50	1800	500	SVZ1EM560E06E00RAXXX	
68		6.3x4.5	60	900	500	SVZ1EM680E4RE00RAXXX	
68		6.3x6	50	1800	500	SVZ1EM680E06E00RAXXX	
100		6.3x4.5	60	1000	500	SVZ1EM101E4RE00RAXXX	
100		6.3x6	50	2100	500	SVZ1EM101E06E00RAXXX	
100		6.3x9	30	2400	500	SVZ1EM101E09E00RAXXX	
150		6.3x9	30	2500	750	SVZ1EM151E09E00RAXXX	
220		6.3x9	30	2500	1100	SVZ1EM221E09E00RAXXX	
220		8x11.5	30	2600	1100	SVZ1EM221FBRE00RAXXX	
330		8x11.5	30	2700	1650	SVZ1EM331FBRE00RAXXX	
330		10x12.5	22	2800	1650	SVZ1EM331GCRE00RAXXX	
470		8x11.5	30	2800	2350	SVZ1EM471FBRE00RAXXX	
470		10x12.5	22	3100	2350	SVZ1EM471GCRE00RAXXX	
560		10x12.5	22	3300	2800	SVZ1EM561GCRE00RAXXX	
680		10x12.5	22	3300	3400	SVZ1EM681GCRE00RAXXX	
35		22	6.3x6	60	1100	500	SVZ1VM220E06E00RAXXX
		27	6.3x6	60	1100	500	SVZ1VM270E06E00RAXXX
		33	6.3x6	60	1100	500	SVZ1VM330E06E00RAXXX
		47	6.3x6	45	1100	500	SVZ1VM470E06E00RAXXX
		47	6.3x9	50	1500	500	SVZ1VM470E09E00RAXXX
	68	6.3x6	45	1100	500	SVZ1VM680E06E00RAXXX	
	68	6.3x9	40	1800	500	SVZ1VM680E09E00RAXXX	
	100	6.3x9	40	2100	700	SVZ1VM101E09E00RAXXX	
	100	8x9.5	40	2800	700	SVZ1VM101F9RE00RAXXX	
	100	8x11.5	30	3000	700	SVZ1VM101FBRE00RAXXX	
	150	8x11.5	30	3000	1050	SVZ1VM151FBRE00RAXXX	
	220	8x11.5	30	2400	1540	SVZ1VM221FBRE00RAXXX	
	270	8x11.5	30	2500	1890	SVZ1VM271FBRE00RAXXX	

**VZ series**

■ STANDARD RATINGS

WV (Vdc)	Cap (µF)	Size DxD(mm)	ESR (mΩ, 20°C, 100kHz) (max.)	Rated ripple current (mArms/105°C, 100kHz)	Leakage Current (µA)(max.)	Part Number
35	270	10x12.5	30	2700	1890	SVZ1VM271GCRE00RAXXX
	330	10x12.5	30	2700	2310	SVZ1VM331GCRE00RAXXX
	470	10x12.5	30	3000	3290	SVZ1VM471GCRE00RAXXX
50	22	6.3x6	80	800	500	SVZ1HM220E06E00RAXXX
	33	6.3x6	80	850	500	SVZ1HM330E06E00RAXXX
	47	6.3x9	60	1400	500	SVZ1HM470E09E00RAXXX
	68	8x11.5	30	2000	680	SVZ1HM680FBRE00RAXXX
	82	8x11.5	30	2000	820	SVZ1HM820FBRE00RAXXX
	100	10x12.5	30	2000	820	SVZ1HM820GCRE00RAXXX
	100	8x11.5	30	2000	1000	SVZ1HM101FBRE00RAXXX
	120	8x11.5	30	2000	1000	SVZ1HM101GCRE00RAXXX
	150	10x12.5	30	2000	1200	SVZ1HM121FBRE00RAXXX
	220	10x12.5	30	2100	1500	SVZ1HM151GCRE00RAXXX
	2300	10x12.5	30	2300	2200	SVZ1HM221GCRE00RAXXX
63	22	6.3x6	80	450	500	SVZ1JM220E06E00RAXXX
	33	6.3x9	60	500	500	SVZ1JM330E09E00RAXXX
	47	8x9.5	60	1000	592	SVZ1JM470F9RE00RAXXX
	56	8x11.5	40	1400	706	SVZ1JM560FBRE00RAXXX
80	100	10x12.5	40	1600	1260	SVZ1JM101GCRE00RAXXX
	27	8x11.5	50	600	500	SVZ1BM270FBRE00RAXXX
	47	10x12.5	50	900	752	SVZ1BM470GCRE00RAXXX
100	68	10x12.5	50	900	1088	SVZ1BM680GCRE00RAXXX
	22	8x11.5	50	600	500	SVZ1KM220FBRE00RAXXX
	47	10x12.5	50	900	940	SVZ1KM470GCRE00RAXXX

Specifications subject to change without notice.

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