

## RVS Series

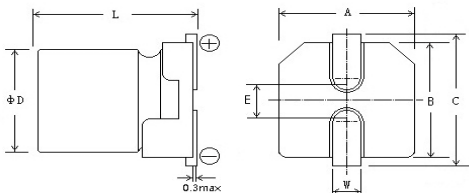
- Chip type, Designed for surface mounting on high density board
- Wide temperature range from -55°C to +105°C
- Suitable for STB, Industrial controlling Automation, LED, Tuner, Computer Server...
- Life time: +105°C 3000 hours
- RoHs Compliant



### ◆ SPECIFICATIONS

Items	Characteristics													
Category	-55°C to +105°C(6.3 to 100Vdc) -40°C to +105°C(160 to 400Vdc)													
Temperature Range														
Rated Voltage Range	6.3 to 400Vdc													
Capacitance Tolerance	±20%(M) ( at 20°C, 120Hz)													
Leakage Current	6.3 to 100Vdc : I=0.01CV(μA) or 3μA, which is greater.							160 to 400Vdc : I≤0.04CV +100μA						
	Where, I: Max. leakage current (μA), C: Nominal capacitance (μF), V: Rated voltage(V) ( at 20°C after 1 minutes)													
Dissipation Factor (tan δ)	Rated Voltage (Vdc)	6.3	10	16	25	35	50	63	100	160	200	250	400	(at 20°C 120Hz)
	tanδ(Max.)	0.22	0.19	0.16	0.14	0.12	0.12	0.12	0.12	0.14	0.14	0.14	0.20	
Low Temperature Characteristics (Max. Impedance Ratio)	Rated Voltage (Vdc)	6.3	10	16	25	35	50	63	100	160	200	250	400	( at 120Hz)
	Z(-40°C)/Z(+20°C)	4	3	3	2	2	2	2	2	3	3	3	6	
	Z(-55°C)/Z(+20°C)	4	4	4	3	3	3	4	4	6	6	6	8	
Endurance	The following specifications shall be satisfied when the capacitors are restored to 20°C after subjected to the rated voltage is applied for 3000 hours( 6.3 to 400V: 3000 hours) at 105°C.													
	Capacitance change	≤±20% of the initial value.												
	D.F. (tan δ)	≤200% of the initial specified value.												
	Leakage current	≤ The initial specified value.												
Shelf Life	The following specifications shall be satisfied when the capacitors performing voltage treatment based on JIS C 5101-4 clause 4.1 at 20°C after exposing them for 1000hours at 105°C without voltage applied.													
	Capacitance change	≤±20% of the initial value.												
	D.F. (tan δ)	≤200% of the initial specified value.												
	Leakage current	≤The initial specified value.												

### ◆ DIMENSIONS [mm]



### ◆ RATED RIPPLE CURRENT MULTIPLIERS

#### FREQUENCY COEFFICIENT

μF	Freq.(Hz)			
	120	1K	10K	100K
10 ~ 100	1.00	1.87	2.25	2.50
220 ~ 470	1.00	1.70	1.88	2.00
1,000 ~ 1,500	1.00	1.45	1.58	1.67

Size	4×5.4	5×5.4	6.3×5.4	6.3×7.7	8×10.2	10×10.2	12.5×13.5	16×16.5
A/B±0.2	4.3	5.3	6.6	6.6	8.3	10.3	13.0	17.0
D±0.5	4.0	5.0	6.3	6.3	8.0	10	12.5	16.0
E±0.2	1.0	1.3	2.2	2.2	3.1	4.5	5.2	6.5
L	5.4	5.4	5.4	7.7	10.2	10.2	13.5	16.5
C±0.2	5.0	6.0	7.2	7.2	9.0	11.0	13.8	18
W	0.5 ~ 0.9		0.8 ~ 1.1		1.1 ~ 1.4			

### Part number system for Radial type:

1	2	3	4	5	6	7	8	9	10
R	V	S	1	J	1	0	0	M	C
Type of Series			Voltage code(V)		Capacitance code(μF)			Capacitance tolerance	Case Code

**◆ Standard Rating of RVS Series**

WV (Vdc)	Cap (μF)	Case size φD×L(mm)	Ripple current mArms/105°C, 120Hz
6.3(0J)	22	4×5.4	30
	33	4×5.4	47
	47	4×5.4	59
	68	5×5.4	116
	100	5×5.4	131
	150	6.3×5.4	145
	220	6.3×5.4	184
	330	6.3×7.7	362
	470	8×10.2	580
	560	8×10.2	609
	680	8×10.2	646
	820	8×10.2	743
	1000	8×10.2	774
	1500	10×10.2	845
10(1A)	22	5×5.4	41
	33	5×5.4	59
	47	5×5.4	78
	68	5×5.4	116
	100	6.3×5.4	145
	150	6.3×5.4	153
	220	6.3×5.4	362
	330	8×10.2	513
	470	8×10.2	545
	560	8×10.2	557
	680	10×10.2	587
	820	10×10.2	885
	1000	10×10.2	948
	16(1C)	10	4×5.4
22		4×5.4	59
33		5×5.4	78
47		5×5.4	95
68		6.3×5.4	145
100		6.3×5.4	167
150		6.3×7.7	290
220		6.3×7.7	373
330		8×10	538
470		8×10	575
560		10×10	738
680		10×10	929
820		10×10	1004
1000		10×10	1027
25(1E)	10	4×5.4	61
	22	5×5.4	80
	33	5×5.4	85
	47	6.3×5.4	145
	68	6.3×5.4	155
	100	6.3×7.7	290
	150	8×10.2	422
	220	8×10.2	513
	330	8×10.2	549
	470	10×10.2	719
560	10×10.2	784	

WV (Vdc)	Cap (μF)	Case size φD×L(mm)	Ripple current mArms/105°C, 120Hz	
35(1V)	10	4×5.4	63	
	22	5×5.4	100	
	33	6.3×5.4	146	
	47	6.3×5.4	155	
	68	6.3×7.7	292	
	100	6.3×7.7	316	
	150	8×10.2	411	
	220	8×10.2	444	
	330	10×10.2	719	
	50(1H)	1.0	4×5.4	11
		2.2	4×5.4	15
4.7		5×5.4	24	
10		6.3×5.4	65	
22		6.3×5.4	105	
33		6.3×7.7	153	
47		6.3×7.7	168	
68		8×10.2	305	
100		8×10.2	326	
150		10×10.2	426	
220		10×10.2	467	
63(1J)	10	6.3×5.4	68	
	22	6.3×7.7	116	
	33	8×10.2	160	
	47	10×10.2	193	
	68	10×10.2	326	
	100	10×10.2	352	
	100(2A)	10	6.3×7.7	74
22		8×10.2	114	
33		10×10.2	170	
47		10×10.2	284	
68		12.5×13.5	340	
100		12.5×13.5	431	
160(2C)	6.8	8×10.2	43	
	8.2	8×10.2	67	
	10	8×10.2	90	
	12	8×10.2	96	
	15	10×10.2	122	
	22	12.5×13.5	167	
	33	12.5×13.5	202	
200(2D)	4.7	8×10.2	61	
	10	10×10.2	100	
250(2E)	22	12.5×13.5	175	
	4.7	8×10.2	75	
	10	10×10.2	119	
	15	12.5×13.5	153	
	22	12.5×13.5	205	
400(2G)	1.0	8×10.2	25	
	2.2	8×10.2	33	
	3.3	8×10.2	51	
	4.7	8×10.2	81	
	6.8	10×10.2	122	
10	12.5×13.5	175		