

RVT Series

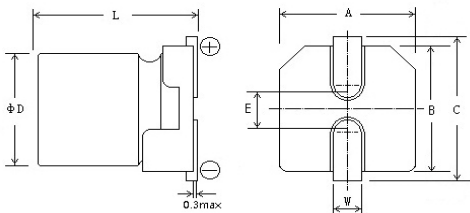
- Chip type, Designed for surface mounting on high density board
- Wide temperature range from -55°C to +105°C
- Suitable for STB, Industrial controlling Automation, LED, Tuner, Computer Server...
- Life time: +105°C 2000 hours
- RoHs Compliant



◆ 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 2000 hours(6.3 to 400V: 2000 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	T	1	J	1	0	0	M	C
Type of Series			Voltage code(V)		Capacitance code(μF)			Capacitance tolerance	Case Code

◆ Standard Rating of RVT Series

WV (Vdc)	Cap (μF)	Case size φD×L(mm)	Ripple current mArms/105°C, 120Hz
6.3(0J)	22	4×5.4	29
	33	4×5.4	45
	47	4×5.4	56
	68	5×5.4	110
	100	5×5.4	125
	150	6.3×5.4	138
	220	6.3×5.4	175
	330	6.3×7.7	345
	470	6.3×7.7	552
	560	8×10.2	580
	680	8×10.2	615
	820	8×10.2	708
	1000	8×10.2	737
1500	10×10.2	805	
10(1A)	22	5×5.4	39
	33	5×5.4	56
	47	5×5.4	74
	68	5×5.4	110
	100	6.3×5.4	138
	150	6.3×5.4	146
	220	6.3×5.4	345
	330	8×10.2	489
	470	8×10.2	519
	560	8×10.2	530
	680	10×10.2	559
	820	10×10.2	843
	1000	10×10.2	903
16(1C)	10	4×5.4	25
	22	4×5.4	56
	33	5×5.4	74
	47	5×5.4	90
	68	6.3×5.4	138
	100	6.3×5.4	159
	150	6.3×7.7	276
	220	6.3×7.7	355
	330	8×10	512
	470	8×10	548
	560	10×10	703
	680	10×10	885
	820	10×10	956
1000	10×10	978	
25(1E)	10	4×5.4	58
	22	5×5.4	76
	33	5×5.4	81
	47	6.3×5.4	138
	68	6.3×5.4	148
	100	6.3×7.7	276
	150	6.3×7.7	402
	220	8×10.2	489
	330	8×10.2	523
470	10×10.2	685	
560	10×10.2	747	

WV (Vdc)	Cap (μF)	Case size φD×L(mm)	Ripple current mArms/105°C, 120Hz
35(1V)	10	4×5.4	60
	22	5×5.4	95
	33	6.3×5.4	139
	47	6.3×5.4	148
	68	6.3×7.7	278
	100	6.3×7.7	301
	150	8×10.2	391
	220	8×10.2	423
	330	10×10.2	685
	50(1H)	1.0	4×5.4
2.2		4×5.4	14
4.7		5×5.4	23
10		5×5.4	62
22		6.3×5.4	100
33		6.3×7.7	145
47		6.3×7.7	160
68		8×10.2	290
100		8×10.2	310
150		10×10.2	405
220	10×10.2	445	
63(1J)	10	6.3×5.4	65
	22	6.3×7.7	110
	33	8×10.2	152
	47	8×10.2	184
	68	10×10.2	310
	100	10×10.2	335
100(2A)	10	6.3×7.7	70
	22	8×10.2	109
	33	10×10.2	162
	47	10×10.2	270
	68	12.5×13.5	324
100	12.5×13.5	410	
160(2C)	6.8	8×10.2	41
	8.2	8×10.2	64
	10	8×10.2	86
	12	8×10.2	91
	15	10×10.2	116
	22	12.5×13.5	159
33	12.5×13.5	192	
200(2D)	4.7	8×10.2	58
	10	10×10.2	96
250(2E)	22	10×10.2	167
	4.7	8×10.2	71
	10	10×10.2	113
	15	12.5×13.5	146
	22	12.5×13.5	195
400(2G)	1.0	8×10.2	24
	2.2	8×10.2	31
	3.3	8×10.2	49
	4.7	8×10.2	77
	6.8	10×10.2	116
10	12.5×13.5	167	