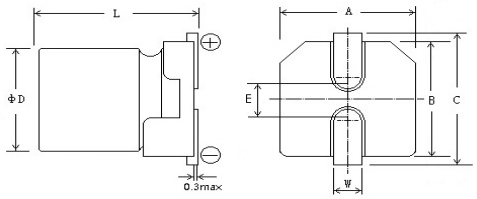
RVG Series

- 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 5000 hours
- RoHs Compliant

◆ SPECIFICATIONS

Items	Characteristics													
Category Temperature Range	-55°C to +105°C(6.3 to 100Vdc) -40°C to +105°C(160 to 400Vdc)													
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 5000 hours(6.3 to 400V: 5000 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	G	1	J	1	0	0	M	C
Type of Series			Voltage code(V)		Capacitance code(μF)			Capacitance tolerance	Case Code

■Standard Rating of RVG Series

WV (Vdc)	Cap (μF)	Case size φD×L(mm)	Ripple current mArms/105°C,120Hz
6.3(0J)	22	4×5.4	32
	33	4×5.4	50
	47	4×5.4	62
	68	5×5.4	121
	100	5×5.4	138
	150	6.3×5.4	152
	220	6.3×5.4	193
	330	6.3×7.7	380
	470	8×10.2	607
	560	8×10.2	638
	680	8×10.2	677
	820	8×10.2	779
	1000	8×10.2	811
	1500	10×10.2	886
10(1A)	22	5×5.4	43
	33	5×5.4	62
	47	5×5.4	81
	68	5×5.4	121
	100	6.3×5.4	152
	150	6.3×5.4	161
	220	6.3×5.4	380
	330	8×10.2	538
	470	8×10.2	571
	560	8×10.2	583
	680	10×10.2	615
	820	10×10.2	927
	1000	10×10.2	993
16(1C)	10	4×5.4	28
	22	4×5.4	62
	33	5×5.4	81
	47	5×5.4	99
	68	6.3×5.4	152
	100	6.3×5.4	175
	150	6.3×7.7	304
	220	6.3×7.7	391
	330	8×10	563
	470	8×10	603
	560	10×10	773
	680	10×10	974
	820	10×10	1052
	1000	10*10	1076
25(1E)	10	4×5.4	64
	22	5×5.4	84
	33	5×5.4	89
	47	6.3×5.4	152
	68	6.3×5.4	163
	100	6.3×7.7	304
	150	8×10.2	442
	220	8×10.2	538
	330	8×10.2	575
	470	10×10.2	754
	560	10×10.2	822

WV (Vdc)	Cap (μF)	Case size φD×L(mm)	Ripple current mArms/105°C,120Hz
35(1V)	10	4×5.4	66
	22	5×5.4	105
	33	6.3×5.4	153
	47	6.3×5.4	163
	68	6.3×7.7	306
	100	6.3×7.7	331
	150	8×10.2	430
	220	8×10.2	465
	330	10×10.2	754
50(1H)	1.0	4×5.4	11
	2.2	4×5.4	15
	4.7	5×5.4	25
	10	6.3×5.4	68
	22	6.3×5.4	110
	33	6.3×7.7	160
	47	6.3×7.7	176
	68	8×10.2	319
	100	8×10.2	341
	150	10×10.2	446
	220	10×10.2	490
63(1J)	10	6.3×5.4	72
	22	6.3×7.7	121
	33	8×10.2	167
	47	10×10.2	202
	68	10×10.2	341
	100	10×10.2	369
100(2A)	10	6.3×7.7	77
	22	8×10.2	120
	33	10×10.2	178
	47	10×10.2	297
	68	12.5×13.5	356
	100	12.5×13.5	451
160(2C)	6.8	8×10.2	45
	8.2	8×10.2	70
	10	8×10.2	95
	12	8×10.2	100
	15	10×10.2	128
	22	12.5×13.5	175
	33	12.5×13.5	211
200(2D)	4.7	8×10.2	64
	10	10×10.2	106
	22	12.5×13.5	184
250(2E)	4.7	8×10.2	78
	10	10×10.2	124
	15	12.5×13.5	161
	22	12.5×13.5	215
400(2G)	1.0	8×10.2	26
	2.2	8×10.2	34
	3.3	8×10.2	54
	4.7	8×10.2	85
	6.8	10×10.2	128
	10	12.5×13.5	184