RVS SERIES

85°C, Lead Free Reflow Soldering.

♦FEATURES

- Case Dia φ3~φ18mm
- Lead free reflow soldering is available.
- Available for high density mounting.

♦SPECIFICATIONS

Items	Characteristics
Category Temperature Range	-40~+85°C
Rated Voltage Range	4~100V.DC
Capacitance Tolerance	±20%(20°C,120Hz)
Leakage Current(MAX)	I=0.01CV or 3μA whichever is greater. (After 2 minutes application of rated voltage) I=Leakage Current(μA) C=Rated Capacitance(μF) V=Rated Voltage(V)
Dissipation Factor(MAX)	(20°C,120Hz)
Endurance	After applying rated voltage with rated ripple current for 2000 hrs at 85°C, the capacitors shall meet the following requirements.
Low Temperature Stability Impedance Ratio(MAX)	(120Hz)

Dissipation Factor(MAX):

Rated Voltage (V)		4	6.3	10	16	25	35	50	63	100
tanδ	φ3	0.40	0.30	-	0.20	0.16	0.14	0.14	-	-
	φ4,φ5,φ6.3x5.5	0.40	0.26	0.22	0.18	0.16	0.13	0.12	-	-
	φ6.3x8,φ8~φ18	0.50	0.35	0.26	0.20	0.16	0.14	0.12	0.12	0.10

When rated capacitance is over 1000μF, tanδ shall be added 0.02 to the listed value with increase of every 1000μF.

Endurance:

Capacitance Change	Within ±25% of the initial value.
Dissipation Factor	Not more than 200% of the specified value.
Leakage Current	Not more than the specified value.

Low Temperature Stability Impedance Ratio(MAX):

Rated Voltage (V)	4	6.3	10	16	25	35	50	63	100
Z(-25°C)/Z(20°C)	7	4	3	2	2	2	2	2	2
Z(-40°C)/Z(20°C)	15	8	8	4	4	3	3	5	5

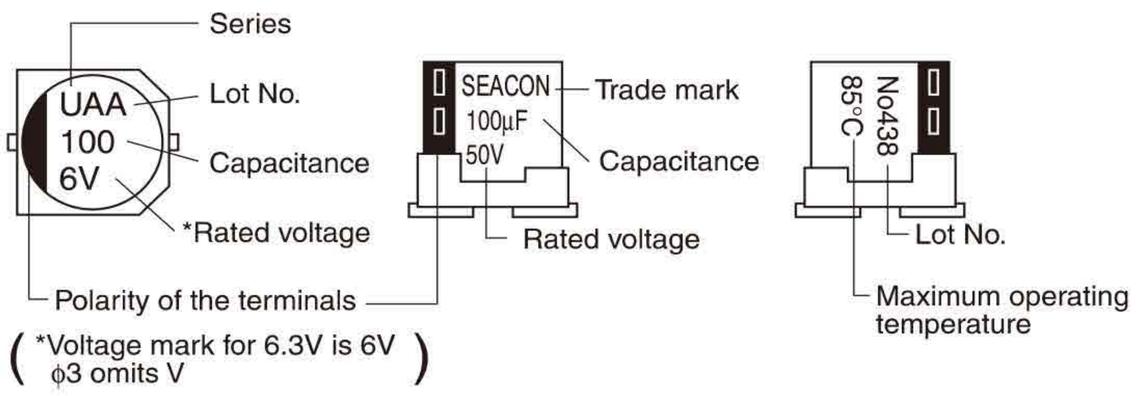
♦MULTIPLIER FOR RIPPLE CURRENT

Frequency coefficient

Frequency (Hz)		60(50)	120	500	1k	10k≦
Coefficient	0.1~1μF	0.50	1.00	1.20	1.30	1.50
	2.2~4.7μF	0.65	1.00	1.20	1.30	1.50
	10~47μF	0.80	1.00	1.20	1.30	1.50
	100~1000μF	0.80	1.00	1.10	1.15	1.20
	2200~10000μF	0.80	1.00	1.05	1.10	1.15

♦MARKING

(φ3~φ6.3, φ8x6.5) (φ8x10.5, φ10~φ18)



(*Voltage mark for 6.3V is 6V
φ3 omits V)

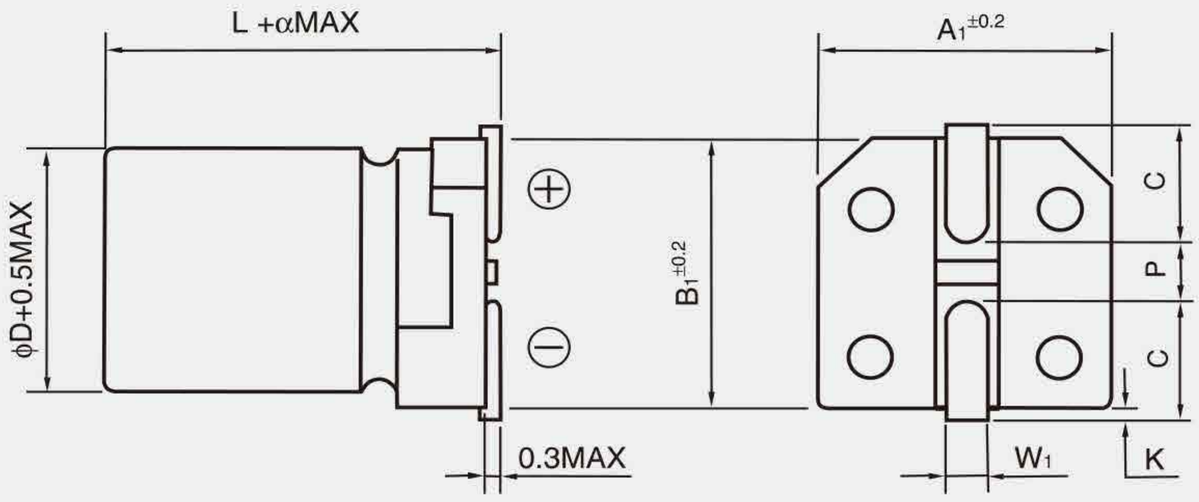
♦PART NUMBER

□□□ RVS □□□□□ □ □□□ DxL

Rated Voltage / Series / Rated Capacitance / Capacitance Tolerance / Option / Case Size

♦DIMENSIONS

(mm)



φ8x10.5~φ18 have sleeve.

φD	L	A1	B1	C	W1	P	K	α
3	5.5	3.3	3.3	1.5	0.45~0.8	0.8	0.5 MAX	0
4	5.5	4.3	4.3	1.8	0.5~0.8	1.0	0.5 MAX	0
5	5.5	5.3	5.3	2.2	0.5~0.8	1.3	0.5 MAX	0
6.3	5.5	6.6	6.6	2.7	0.5~0.8	1.8	0.5 MAX	0
6.3	8	6.6	6.6	2.7	0.5~0.8	1.8	0.5 MAX	0
8	6.5	8.3	8.3	3.4	0.5~0.8	2.2	0.5 MAX	0
8	10.5	8.3	8.3	2.9	0.8~1.1	3.1	0.5 MAX	0
10	10.5	10.3	10.3	3.2	0.8~1.1	4.5	0.5 MAX	0
12.5	13.5	13	13	4.9	0.8~1.1	4.5	0.7±0.4	0.5
12.5	16	13	13	4.9	0.8~1.1	4.5	0.7±0.4	0.5
16	16.5	17	17	6	1.0~1.6	6.8	0.7±0.4	0.5
16	21.5	17	17	6	1.0~1.6	6.8	0.7±0.4	0.5
18	16.5	19	19	7	1.0~1.6	6.8	0.7±0.4	0.5
18	21.5	19	19	7	1.0~1.6	6.8	0.7±0.4	0.5

♦STANDARD SIZE, RATED RIPPLE CURRENT

Size φDxL(mm), Ripple Current (mA r.m.s./85°C, 120Hz)

WV(V.DC) / Cap(μF)	4 (0G)		6.3 (0J)		10 (1A)		16 (1C)		25 (1E)		35 (1V)		50 (1H)		63 (1J)		100 (2A)	
	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple
0.1													3X5.5 4X5.5	1.0				
0.22													3X5.5 4X5.5	2.0				
0.33													3X5.5 4X5.5	2.8				
0.47													3X5.5 4X5.5	4.0				
1													3X5.5 4X5.5	8.0 8.4				
2.2											3X5.5	8.4	3X5.5 4X5.5	10 14				
3.3											3X5.5	10	4X5.5	17				
4.7							3X5.5	12	3X5.5 4X5.5	12 18	4X5.5	18	4X5.5 5X5.5	18 22			8X10.5	80
10							3X5.5 4X5.5	18 25	4X5.5	25	5X5.5	30	5X5.5 6.3X5.5	30 35			8X10.5	90
22	3X5.5	19	3X5.5 4X5.5	21 29			4X5.5 5X5.5	30 39			6.3X5.5	48	6.3X5.5 8X6.5	48 80	8X10.5	75	8X10.5	130
33	4X5.5	28			4X5.5 5X5.5	32 43	5X5.5	43	6.3X5.5	54	6.3X5.5	58	6.3X8 8X10.5	95 200	8X10.5	160	10X10.5	170
47	4X5.5	34	4X5.5 5X5.5	36 46			5X5.5 6.3X5.5	50 60	6.3X5.5	60	6.3X8 8X6.5	105 115	8X10.5 10X10.5	240 280	8X10.5	170	12.5X13.5	250
100	5X5.5	61	5X5.5 6.3X5.5	61 71	6.3X5.5	71	6.3X5.5 8X6.5	86 135	6.3X8 8X6.5	145 160	8X10.5 10X10.5	280 480	8X10.5 10X10.5	320 500	10X10.5	240	12.5X16	440
220	6.3X5.5	96	6.3X5.5	96	6.3X8 8X6.5	175 190	6.3X8 8X10.5	165 290	8X10.5 10X10.5	300 560	10X10.5	570	12.5X13.5	580	12.5X16	580	16X21.5 18X16.5	665
330			6.3X8 8X6.5	190 210	8X10.5	330	8X10.5 10X10.5	330 670	10X10.5	680			12.5X13.5	600	18X16.5	680	18X21.5	825
470	6.3X 8	200	8X10.5	380	8X10.5 10X10.5	380 680	8X10.5 10X10.5	385 690	12.5X13.5	700	12.5X13.5	700	16X16.5	740	16X21.5 18X16.5	850		
1000			10X10.5	700	12.5X13.5	710	12.5X13.5	720	12.5X16	820	16X16.5	1000	18X21.5	1150				
2200			12.5X16	890	12.5X16	960	16X16.5	1150	16X21.5 18X16.5	1350	18X21.5	1550						
3300			16X16.5	1200	16X16.5	1300	16X21.5 18X16.5	1450	18X21.5	1700								
4700			16X16.5	1400	16X21.5 18X16.5	1500	18X21.5	1750										
6800			16X21.5 18X16.5	1650	18X21.5	1850												
10000			18X21.5	2000														