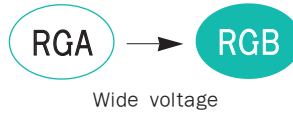


RGB Series

• 85°C 2,000Hrs assured.

- Non-solvent proof.
- General.
- Downsized of SME series.
- RoHS compliant.



SPECIFICATIONS

Item	Characteristics	
Rated Voltage Range	16 ~ 100 V _{DC}	160 ~ 600 V _{DC}
Operating Temperature Range	-40 ~ +85°C	-25 ~ +85°C
Capacitance Tolerance	±20% (M) (at 20°C, 120Hz)	
Leakage Current	I = 0.02CV or 5mA, whichever is smaller. Where, I: Max. Leakage current (μA) C: Nominal capacitance (μF) V: Rated voltage (V _{DC}) (at 20°C, 5 minutes)	
Dissipation Factor(Tanδ)	Tanδ shall not exceed the values shown in the RATINGS. (at 20°C, 120Hz)	
Insulation Withstanding Voltage	When a voltage of 2,000V _{AC} is applied for one minute between the terminals shorted each other and the mounting clamp on the insulating sleeve covering the case, there shall not be electrical damage.	
Load Life	The following specifications shall be satisfied when the capacitors are restored to 20°C. after subjected to DC voltage with the rated ripple current is applied (the peak voltage shall not exceed the rated voltage) 2,000 hours at 85°C. Capacitance change ≤ ±20% of the initial value Tanδ ≤ 300% of the initial specified value Leakage current ≤ The initial specified value	
Shelf Life	The following specifications shall be satisfied when the capacitors are restored to 20°C after the exposing them at 85°C for 500 hours without voltage applied. The rated voltage shall be applied to the capacitors for a minimum of 30 minutes, at least 24 hours and not more than 48 hours before the measurements. Capacitance change ≤ ±20% of the initial value Tanδ ≤ 300% of the initial specified value Leakage current ≤ The initial specified value	
Others	Satisfied characteristics KS C IEC 60384-4	

DIMENSIONS OF RGB Series

Unit(mm)

Marking: BLACK SLEEVE, SILVER INK.

B type mounting clamp

C type mounting clamp

<Screw specifications>
 øD = ø63 ~ ø89
 ● Plus hexagon-headed screw: M5×0.8×12
 ● Maximum screw tightening torque: 3.23N·m (33kg·cm)
 ● Cross-recessed head (Phillips) screw: M8×1.25×16
 Spring washer, Washer
 ● Maximum screw tightening torque: 6.31N·m(64kg·cm)

øD	A	B	W	H	F
35	58	44	48	3.5	12.7
50	78	64	68	4.5	22.4
63.5	90	75	80	4.5	28.0
76.5	104.5	90	93.5	4.5	31.5

øD	E	K	J	F
50	32.5	37.0	14	22.4
63.5	38.1	43.5	14	28.0
76.5	44.5	50.0	14	31.5
89	50.8	56.5	16	31.5
100	56.5	63.4	18	41.5

RATINGS OF RGB Series

V _{DC}	Capacitance (μF)	∅D×L(mm)	Tanδ	Rated Ripple Current (Arms/85°C, 120Hz)	V _{DC}	Capacitance (μF)	∅D×L(mm)	Tanδ	Rated Ripple Current (Arms/85°C, 120Hz)
16	47,000	35 × 80	0.70	8.8	80	6,800	35 × 60	0.30	4.9
	68,000	35 × 100	0.70	11.5		10,000	35 × 80	0.30	6.3
	100,000	50 × 80	1.00	12.9		15,000	35 × 120	0.30	8.2
	150,000	50 × 100	1.00	16.2		22,000	50 × 80	0.35	9.3
	220,000	50 × 130	1.00	21.3		33,000	50 × 120	0.35	13.1
	330,000	63.5 × 120	1.30	23.1		47,000	63.5 × 100	0.40	15.5
	470,000	76.5 × 120	2.00	24.7		68,000	63.5 × 140	0.40	17.7
	680,000	76.5 × 160	2.00	33.9		100,000	76.5 × 140	0.45	23.6
25	33,000	35 × 80	0.45	8.2	100	4,700	35 × 60	0.20	4.5
	47,000	35 × 100	0.45	10.8		6,800	35 × 80	0.20	5.9
	68,000	50 × 80	0.60	12.7		10,000	35 × 100	0.20	7.7
	100,000	50 × 100	0.60	14.5		15,000	50 × 80	0.25	8.6
	150,000	50 × 130	0.60	18.8		22,000	50 × 100	0.25	11.3
	220,000	63.5 × 120	0.80	22.0		33,000	50 × 140	0.25	14.7
	330,000	76.5 × 120	1.60	23.7		47,000	63.5 × 140	0.30	17.0
	470,000	76.5 × 160	1.60	29.5		68,000	76.5 × 140	0.40	21.5
35	22,000	35 × 70	0.45	7.0	160	1,500	35 × 60	0.15	3.4
	33,000	35 × 100	0.45	9.3		2,200	35 × 80	0.15	4.6
	47,000	35 × 120	0.45	12.2		3,300	35 × 100	0.15	6.2
	68,000	50 × 100	0.60	14.3		4,700	50 × 80	0.15	7.7
	100,000	50 × 120	0.60	17.1		6,800	50 × 100	0.15	10.0
	150,000	63.5 × 120	0.70	19.6		10,000	50 × 140	0.15	14.1
	220,000	76.5 × 120	0.90	23.3		15,000	63.5 × 140	0.20	16.5
	330,000	76.5 × 160	0.90	27.8		22,000	76.5 × 140	0.25	17.6
50	10,000	35 × 60	0.30	5.2	200	1,000	35 × 60	0.15	2.8
	15,000	35 × 80	0.30	6.6		1,500	35 × 70	0.15	3.6
	22,000	35 × 100	0.30	8.7		2,200	35 × 100	0.15	5.1
	33,000	35 × 120	0.30	11.4		3,300	35 × 120	0.15	6.7
	47,000	50 × 100	0.45	13.2		4,700	50 × 100	0.15	8.3
	68,000	50 × 120	0.45	15.9		6,800	50 × 140	0.15	11.5
	100,000	63.5 × 120	0.50	18.8		10,000	63.5 × 120	0.20	12.1
	150,000	76.5 × 120	0.70	21.5		15,000	76.5 × 120	0.25	13.7
	220,000	76.5 × 160	0.70	26.6		22,000	76.5 × 160	0.25	18.6
63	6,800	35 × 50	0.30	4.5	250	680	35 × 50	0.15	2.1
	10,000	35 × 60	0.30	5.4		1,000	35 × 70	0.15	2.9
	15,000	35 × 80	0.30	6.9		1,500	35 × 80	0.15	3.8
	22,000	35 × 120	0.30	9.8		2,200	35 × 120	0.15	5.5
	33,000	50 × 100	0.45	12.5		3,300	50 × 100	0.15	7.0
	47,000	50 × 120	0.45	14.8		4,700	50 × 140	0.15	9.6
	68,000	63.5 × 100	0.50	16.6		6,800	63.5 × 120	0.20	10.0
	100,000	76.5 × 120	0.70	20.6		10,000	76.5 × 120	0.25	11.2
	150,000	76.5 × 140	0.70	24.0		15,000	76.5 × 160	0.25	15.3



LARGE SIZED ALUMINUM ELECTROLYTIC CAPACITORS

RATINGS OF RGB Series

VDC	Capacitance (μF)	∅D×L(mm)	Tanδ	Rated Ripple Current (Arms/85°C, 120Hz)	VDC	Capacitance (μF)	∅D×L(mm)	Tanδ	Rated Ripple Current (Arms/85°C, 120Hz)
350	390	35×50	0.25	1.9	500	120	35×50	0.25	0.7
	680	35×80	0.25	2.9		270	35×80	0.25	1.2
	1,000	35×100	0.25	3.8		330	35×100	0.25	1.4
	1,200	35×120	0.25	4.2		390	35×120	0.25	1.7
	1,500	50×75	0.25	4.7		470	50×75	0.25	1.8
	2,200	50×100	0.25	6.3		680	50×90	0.25	2.5
	3,300	50×130	0.25	8.8		820	50×120	0.25	2.9
	3,300	63.5×95	0.25	8.8		1,000	50×130	0.25	3.4
	3,900	63.5×120	0.25	10.3		1,000	63.5×95	0.25	3.4
	4,700	63.5×130	0.25	12.0		1,500	63.5×120	0.25	4.5
	4,700	76.5×100	0.25	11.7		1,500	76.5×95	0.25	4.6
	5,600	76.5×115	0.25	12.6		1,800	63.5×130	0.25	5.2
	6,800	76.5×130	0.25	15.9		2,200	76.5×120	0.25	6.1
	8,200	76.5×155	0.25	19.0		2,700	76.5×160	0.25	7.7
	12,000	89×155	0.25	22.5		3,900	89×160	0.25	10.1
22,000	100×220	0.25	38.0	12,000	100×220	0.25	21.7		
27,000	100×250	0.25	44.6	15,000	100×250	0.25	25.7		
400	330	35×50	0.25	1.7	550	100	35×50	0.25	0.6
	560	35×80	0.25	2.7		180	35×80	0.25	1.0
	820	35×100	0.25	3.4		270	35×100	0.25	1.3
	1,000	35×120	0.25	3.9		330	35×120	0.25	1.6
	1,200	50×75	0.25	4.2		390	50×75	0.25	1.7
	1,800	50×100	0.25	5.7		560	50×95	0.25	2.1
	2,200	50×130	0.25	7.2		560	63.5×95	0.25	2.5
	2,700	63.5×95	0.25	7.9		680	50×115	0.25	2.7
	3,300	63.5×120	0.25	9.5		680	63.5×120	0.25	3.0
	3,900	63.5×130	0.25	10.9		820	50×130	0.25	3.1
	3,900	76.5×100	0.25	10.6		820	63.5×130	0.25	3.5
	4,700	76.5×115	0.25	12.6		1,200	76.5×95	0.25	4.2
	5,600	76.5×130	0.25	14.5		1,500	76.5×120	0.25	5.0
	6,800	76.5×155	0.25	17.3		1,800	76.5×130	0.25	5.8
	10,000	89×155	0.25	20.5		2,200	76.5×150	0.25	7.0
18,000	100×220	0.25	34.4	3,300	89×160	0.25	9.3		
22,000	100×250	0.25	40.3	8,200	100×220	0.25	18.0		
450	270	35×50	0.25	1.6	600	10,000	100×250	0.25	21.2
	470	35×80	0.25	2.4		180	35×100	0.25	1.1
	680	35×100	0.25	3.1		270	35×120	0.25	1.4
	820	35×120	0.25	3.5		330	50×75	0.25	1.7
	1,000	50×75	0.25	3.9		390	50×95	0.25	1.8
	1,200	50×100	0.25	4.7		390	63.5×95	0.25	2.1
	1,500	50×115	0.25	5.6		560	50×115	0.25	2.2
	1,800	50×130	0.25	6.5		560	63.5×11.5	0.25	2.6
	2,200	63.5×95	0.25	7.2		680	50×130	0.25	2.9
	2,700	63.5×120	0.25	8.6		680	63.5×130	0.25	3.2
	3,300	63.5×130	0.25	10.0		820	76.5×95	0.25	3.3
	3,300	76.5×100	0.25	9.8		1,200	76.5×115	0.25	4.4
	3,900	76.5×115	0.25	11.5		1,500	76.5×130	0.25	5.4
	4,700	76.5×130	0.25	13.3		1,800	76.5×150	0.25	6.5
	5,600	76.5×155	0.25	15.7		2,200	89×130	0.25	7.8
8,200	89×155	0.25	18.6	2,700	89×155	0.25	8.9		
15,000	100×220	0.25	31.4	4,700	100×220	0.25	14.7		
18,000	100×250	0.25	36.4	5,600	100×250	0.25	17.0		

Note : When long life performance is required in actual use, the rms ripple current has to be reduced.

RATED RIPPLE CURRENT

Frequency Multiplying Factor

Capacitance (Vdc)	∅D(mm)	Frequency(Hz)				
		60	120	300	1k	10k~
16 ~ 50	∅35 ~ ∅100	0.95	1.00	1.03	1.05	1.09
	∅35	0.90	1.00	1.06	1.10	1.08
63 ~ 80	∅50 ~ ∅100	0.95	1.00	1.03	1.05	1.09
	∅35	0.82	1.00	1.12	1.22	1.30
100	∅50	0.90	1.00	1.06	1.10	1.18
	∅63.5 ~ ∅100	0.95	1.00	1.03	1.05	1.09
	∅35	0.80	1.00	1.19	1.34	1.46
160 ~ 250	∅50 ~ ∅63.5	0.81	1.00	1.14	1.26	1.36
	∅76.5 ~ ∅100	0.82	1.00	1.12	1.22	1.30
	∅35 ~ ∅100	0.80	1.00	1.19	1.34	1.46
350 ~ 600	∅35 ~ ∅100	0.80	1.00	1.19	1.34	1.46