## **RGA Series**

## Features

- 105°C, for general purpose, standard series
- RoHS Compliance
- If there is any requirement on ESR, it's suggested to use low ESR series instead of RGA. Please consult our contact window for any inquiry.

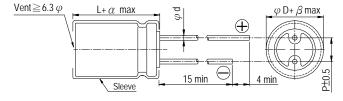


Sleeve & Marking Color: Black & White

## Specifications

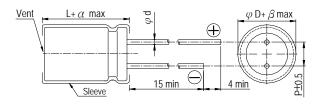
Specifications								D = =f -		_									_
Items									rmanc										
Category Temperature Range							-4		+105	്									0-1
Capacitance Tolerance								±2	20%							(	at 120	Hz, 20	rc)
	Rated voltage ≤100V >100V  Time after 2 minutes after 5 minutes										1								
Leakage Current (at 20°C)			after	2 min	utes				aft	er 5 m	ninutes	3							
		Leakag	e Currer	nt	I = 0.01 whiche									/ > 1,000 02CV + 25(μA)					
			Wh	nere, C	C = rated	l capa	citance	in µF	- V =	rated	DC w	orking	volta	ge in V	'			4 16 8 20	
Dissipation Factor	Rated Vo	ltage	6.3	10	16	25	35	50	63	10	00 1	60	200	250	350	400	) 45	i0	
(Tanδ at 120 Hz, 20°C)	Tanō (m	_		0.20	-	0.14	0.12							0.17					
(1d110 dt 120 112, 20 0)	iano (ii															-	0   0.2	_0	
	When the capacitance exceeds 1,000μF, 0.02 shall be added every 1,000μF increase.  Impedance ratio shall not exceed the values given in the table below.														_				
	R	ated Vo	ltage		6.3	10	16	25	35	50	63	100	160	200	250	350	400	450	ı
Low Temperature		Z(-25	5°C)	D<1	6 4	3	3	2	2	2	2	2	_		_	40		40	ı
Characteristics (at 120Hz)	Impedance	/Z(+20	0°C)	D≧1	6 6	4	4	3	3	3	3	3	3	6	8	12	14	16	ı
	Ratio	Z(-40	)°C) $\phi$	D<1	6 8	6	6	4	4	3	3	3		_	40	40	10	00	ı
		/Z(+20	0°C) φ	D≧1	6 12	10	8	8	8	8	6	6	4	8	10	16	18	20	ı
Endurance	* The above Sp		D L ions sha	pacita issipa eakag		tor nt	the ca		ess th	hin ±2 an 20 Vithin	specifi	initial specif ied va	ied va lue		d volta	ge apı	olied w	vith rat	ed
	PF	, , , ,																	_
	Test Time 1,000 Hrs																		
0. 15.15. 7. 1		Capacitance Change					With in ±20% of initial value												
Shelf Life Test				Dissipation Factor				L	Less than 200% of specified value										
	Leakage Current Within specified value  * The above Specifications shall be satisfied when the capacitors are restored to 20°C after exposing them for 1,000 hours at										t								
	105°C without (Refer to JIS	voltage	e applied																
					Freq.	Hz)	00 (5)	2)	400		F0/	,		_	40'				
Ripple Current &		Сар	. (μF)				60 (5	J)	120	,	500	J	11		10k	up			
Frequency Multipliers				nder 1			0.70	1	1.00	)	1.3	0	1.4	.0	1.5	50			
			100 <	C ≦	1,000		0.75		1.00	)	1.2	0	1.3	-	1.3	35			
			1,000	) up a	bove		0.80	1	1.00	)	1.1	0	1.1	2	1.1	5			
		-																	

## Diagram of Dimensions



L	Lead Spacing and Diameter Unit: m										
	$\phi$ D	5	6.3	8	10	12.5	16	18	22	25	
	Р	2.0	2.5	3.5	5.0	5.0	7.5	7.5	10	12.5	
Ī	$\phi$ d	0	.5		0.6		0	.8	1.0		
	α		1.0		L<2	0: 1.5,	2.0				
	β	0.5									

The case size of 12.5×16, 16×16, 16×20, 18×16, 18×20 and 18×25 are suitable for below diagram:



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Dimension:  $\phi D \times L(mm)$ 

Dimension & Permissible Ripple Current

Ripple Curren	t: mA/rms at	120 Hz,	105°C

Dillich	intension & Fermissible Ripple Current								Rippie Guiterit. IIIA/IIIIS at 120 ftz, 105 C								
	V. DC	6.3V	(0J)	10V (	(1A)	16V (	1C)	25V (	(1E)	35V (	1V)	50V (	1H)	63V	(1J)	100V	(2A)
μF	Contents	$\phi\mathrm{D}\! imes\!\mathrm{L}$	mA	φD×L	mA	φD×L	mA	$\phi$ D×L	mA	$\phi$ D×L	mA	$\phi$ D×L	mA	φD×L	mA	φD×L	mA
2.2	2R2											5×11	20			5×11	30
3.3	3R3											5×11	30			5×11	31
4.7	4R7											5×11	33			5×11	36
10	100											5×11	50			6.3×11	54
22	220											5×11	78	6.3×11	86	6.3×11 8×11.5	93 99
33	330									5×11	75	5×11	90	6.3×11	100	8×11.5	130
47	470							5×11	97	5×11	90	6.3×11	120	6.3×11 8×11.5	130 141	10×12.5	165
100	101					5×11	110	6.3×11	142	6.3×11	150	8×11.5	188	10×12.5	235	10×20 12.5×16	265 290
220	221	5×11	140	6.3×11	175	6.3×11	190	8×11.5	236	8×11.5	270	10×12.5	240	10×16	335	12.5×25 16×16	440 420
330	331			6.3×11	200	8×11.5	270	8×11.5 10×12.5	310 335	10×12.5	350	10×16	410	10×20 12.5×16	510 460	16×25	620
470	471	6.3×11	230	8×11.5	290	8×11.5	310	10×12.5	380	10×16	460	10×20 12.5×16	530 425	12.5×20 16×16	640 665	16×31.5 18×25	715 745
1,000	102	8×11.5	380	10×12.5	460	10×16	560	10×20 12.5×16	680 590	12.5×20 16×16	810 720	12.5×25 16×20	950 830	16×25	930	18×40	1,275
2,200	222	10×16	690	10×20	760	12.5×16	780	12.5×25	1,110	16×25 18×20	1,260 1,110	16×35.5 18×31.5	1,470 1,520	18×40	2,280	25×45	2,400
3,300	332	10×20 12.5×16	840 850	12.5×20 16×16	1,100 940	12.5×25 16×16	1,170 950	16×25 18×20	1,440 1,220	16×31.5 18×25	1,420 1,570	18×35.5	1,770	22×40	2,510		
4,700	472	12.5×20 16×16	1,090 1,010	12.5×25 16×16	1,260 1,060	16×20 18×16	1,185 1,290	16×31.5 18×25	1,650 1,550	18×35.5	1,900	22×40	2,340	25×40	3,000		
6,800	682	12.5×25 16×20	1,460 1,190	16×20	1,270	16×31.5 18×20	1,930 1,585	16×40 18×35.5	2,000 2,160	18×40	2,250	25×40	2,530				
10,000	103	16×20	1,340	16×31.5 18×25	2,220 1,800	16×35.5 18×31.5		22×40 18×45	2,720 2,410								
15,000	153	16×31.5 18×25	2,365 2,290	18×31.5 16×35.5	2,620 2,590	18×40	2,950	25×40	3,200								
22,000	223	16×40 18×35.5	2,800 2,930	18×40	3,230	22×40	3,460										
33,000	333	18×45	3,080	22×40	4,090	25×45	4,500										

	V. DC	160V	(2C)	200V	(2D)	250V	(2E)	350V	(2V)	400V	(2G)	450V	(2W)
μF	Contents	$\phi$ D×L	mA	φD×L	mA	φD×L	mA	φD×L	mA	φD×L	mA	φD×L	mA
1	010									6.3×11	21	8×11.5	27
2.2	2R2			6.3×11	30	6.3×11	35	6.3×11	35	8×11.5	39	8×11.5	39
3.3	3R3			6.3×11	39	6.3×11	40	8×11.5	43	8×11.5	45	8×11.5	45
4.7	4R7			6.3×11	43	8×11.5	45	8×11.5 10×12.5	45 55	8×11.5 10×12.5	50 55	8×11.5 10×12.5	50 55
10	100	8×11.5	65	8×11.5	65	10×12.5	92	10×16	95	10×16	95	10×20	105
22	220	10×12.5	110	10×16	140	10×16	140	12.5×20	220	12.5×20	160	12.5×20	160
33	330	10×16	150	10×20	170	12.5×16	175	12.5×25 16×16	215 205	16×20	225	16×20 18×16	225 220
47	470	10×20	195	12.5×16	215	12.5×20 16×16	230 245	16×20	255	16×25	295	16×25 18×20	280 285
68	680	12.5×20	275	12.5×20 16×16	265 290	16×20	320	18×25 16×31.5	360 370	18×25 16×31.5	360 375	16×35.5 18×31.5	400 420
100	101	12.5×25	355	16×20 18×16	365 360	16×25 18×20	425 415	18×31.5 16×35.5	460 430	18×35.5	540	18×40	560
150	151	16×25	470	18×20	510	16×31.5 18×25	550 535	18×40	600	22×40	730	22×40	770
220	221	16×31.5	660	18×31.5	750	18×35.5	760	25×40 22×45	865 850	22×45	930		
330	331	18×35.5	820	18×40	965	22×40	1,140	25×45	1,070				
470	330	22×40	1,130	22×40	1,130	25×40	1,325						

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