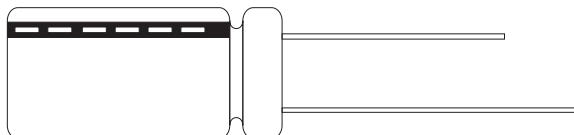


### FEATURES

- 85°C, 2000hrs for Dia ≤ 8mm, 3000hrs Dia ≥ 10mm
- Standard series for general purpose
- Replaces RC, RE & RH Series



### SPECIFICATIONS

Item	Performance																
Operating Temp.	-40°C ~ +85°C																
Capacitance Tolerance	± 20% (120Hz, 20°C)																
Leakage Current (at 20°C)	Rated Voltage	100V								>100V							
	Time	After 2 minutes								After 5 minutes							
	Leakage Current	I = 0.01CV or 3 ( A) whichever is greater								CV 1000 I = 0.03CV + 15( A)				CV > 1000 I = 0.02CV + 25( A)			
	Where C = rated capacitance in F. V = rated DC working voltage in V.																
Dissipation Factor Tan at 120Hz, 20°C	Rated Voltage	6.3	10	16	25	35	50	63	100	160	200	250	350	400	450		
	Tan (max)	0.23	0.20	0.16	0.14	0.12	0.10	0.09	0.08	0.12	0.14	0.17	0.20	0.25	0.25		
	When the capacitance exceeds 1000 F, 0.02 shall be added for every 1000 F increase.																
Low Temperature Characteristics (at 120Hz)	Impedance ratio shall not exceed the values given in the table below.																
	Rated Voltage		6.3	10	16	25	35	50	63	100	160	200	250	350	400	550	
	Impedance Ratio	Z(-25°C)	D 16	6	4	3	3	2	2	2	2	3	6	8	12	14	16
		/Z(+20°C)	D 16	8	6	4	4	3	3	3	3	4	8	10	10	10	10
		Z(-40°C)	D 16	10	8	6	6	4	3	3	3	4	8	10	10	10	10
/Z(+20°C)		D 16	18	16	12	10	8	6	6	6	8	10	10	10	10	10	
Load Life test at 20 C (after rated voltage is applied at 85 C for 2000 / 3000 hours)	Test Time	2000hrs(3000hrs for D 10mm)								Shelf Life at 20°C after exposure to 85 for 1000 hours with no voltage				Test Time 1000hrs			
	Capacitance Change	Within ±20% of initial value								Capacitance Change				Within ±20% of initial value			
	Dissipation Factor	Less than 200% of specific value								Dissipation Factor				Less than 200% of specific value			
	Leakage Current	Within specified value								Leakage Current				Within specified value			
Ripple Current & Frequency Multipliers	Freq. (Hz) Cap. ( F)	60 (50)	120	500	1K	10K up											
		Under 100	0.70	1.00	1.30	1.40	1.50										
	100 to 1000	0.75	1.00	1.20	1.30	1.35											
	1000 and above	0.80	1.00	1.10	1.12	1.15											
Ripple Current & Temperature Multipliers	Temperature (°C)	Under 50	70	85													
	Mutipliers	1.78	1.4	1.00													
Standards	Satisfies Characteristic W of JIS C 5141																

### DIMENSION & PERMISSIBLE RIPPLE CURRENT

Ripple Current :mA/rms at 120Hz, 85°C

V.DC μF	Code	6.3V (0J)		10V (1A)		16V (1C)		25V (1E)		35V (1V)		50V (1H)		63V (1J)		100V (2A)	
		φD x L	mA	φD x L	mA	φD x L	mA	φD x L	mA	φD x L	mA	φD x L	mA	φD x L	mA	φD x L	mA
0.1	0R1											5 x 11	1.5	5 x 11	3	5 x 11	3
0.2	R22											5 x 11	3.5	5 x 11	5	5 x 11	5.8
0.3	R33											5 x 11	5	5 x 11	8	5 x 11	8.8
0.5	R47											5 x 11	7	5 x 11	10	5 x 11	12
1.0	10											5 x 11	15	5 x 11	17	5 x 11	22
2.2	2R2											5 x 11	29	5 x 11	28	5 x 11	33
3.3	3R3											5 x 11	35	5 x 11	34	5 x 11	40
4.7	4R7							5 x 11	31	5 x 11	40	5 x 11	42	5 x 11	45	5 x 11	48
10	100					5 x 11	49	5 x 11	54	5 x 11	58	5 x 11	65	5 x 11	70	5 x 11 6.3 x 11	59 80
22	220			5 x 11	70	5 x 11	75	5 x 11	80	5 x 11	87	5 x 11	95	6.3 x 11	115	6.3 x 11 8 x 11.5	115 135
33	330	5 x 11	72	5 x 11	84	5 x 11	90	5 x 11	97	5 x 11 6.3 x 11	108 115	5 x 11 6.3 x 11	136 163	6.3 x 11 8 x 11.5	140 150	8 x 11.5 10 x 16	145 195
47	470	5 x 11	90	5 x 11	100	5 x 11	110	5 x 11	115	5 x 11 6.3 x 11	130 145	5 x 11 6.3 x 11	165	6.3 x 11 8 x 11.5	170 190	10 x 13 10 x 16	235 255

### DIMENSION & PERMISSIBLE RIPPLE CURRENT

Ripple Current: mA/rms at 120 Hz, 85°C

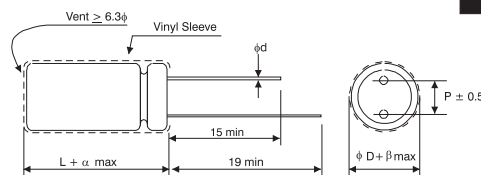
V.DC		6.3V (0J)		10V (1A)		16V (1C)		25V (1E)		35V (1V)		50V (1H)		63V (1J)		100V (2A)	
μF	Code	Φ D x L	mA	Φ D x L	mA	Φ D x L	mA	Φ D x L	mA	Φ D x L	mA	Φ D x L	mA	Φ D x L	mA	Φ D x L	mA
100	101	5 x 11	130	5 x 11	145	5 x 11 6.3 x 11	160 180	6.3 x 11	190	6.3 x 11 8 x 11.5	260 260	8 x 11.5	260	8 x 11.5 10 x 12.5	245 245	10 x 16 10 x 20	325 370
220	221	5 x 11 6.3 x 11	200 230	5 x 11 6.3 x 11	220 250	6.3 x 11 8 x 11.5	260 300	8 x 11.5	320	8 x 11.5 10 x 12.5	385 420	10 x 12.5 10 x 16	455 490	10 x 16 10 x 20	490 565	12.5 x 20 12.5 x 25	640 675
330	331	6.3 x 11 8 x 11.5	270 290	6.3 x 11 8 x 11.5	290 350	8 x 11.5	370	8 x 11.5 10 x 12.5	440 470	8 x 11.5 10 x 16	490 570	10 x 16 12.5 x 20	585 635	10 x 20 12.5 x 20	710 765	16 x 20 16 x 25	695 825
470	471	6.3 x 11 8 x 11.5	320 380	8 x 11.5 6.3 x 11	350 415	8 x 11.5 10 x 12.5	440 520	10 x 12.5 10 x 16	545 620	10 x 16	740	12.5 x 16* 16 x 16* 10 x 20 12.5 x 20	610 745 755 860	12.5 x 20 16 x 25	900 1050	16 x 31.5 18 x 35.5	1070 1135
1000	102	8 x 11.5	540	8 x 11.5 10 x 12.5	550 650	10 x 16	785	12.5 x 16* 10 x 20 12.5 x 20	830 955 1090	16 x 16* 12.5 x 20	1010 1145	16 x 20* 12.5 x 25 16 x 25	1160 1340 1530	16 x 25 16 x 31.5	1560 1700	18 x 40 22 x 40	2410 2600
2200	222	10 x 20	1000	12.5 x 16* 10 x 20 12.5 x 20	970 1070 1240	12.5 x 16* 16 x 16* 12.5 x 20	930 1160 1295	16 x 16* 16 x 20* 12.5 x 25 16 x 25	1150 1360 1540 1660	16 x 20* 18 x 20* 16 x 25 16 x 31.5	1490 1560 1785 1890	16 x 35.5 18 x 40	2075 2231	18 x 31.5 18 x 35.5 18 x 40	1955 2100 2385		
3300	332	10 x 20 12.5 x 20 12.5 x 16*	1185 1380 960	16 x 16*	1310	12.5 x 20 12.5 x 25 16 x 20* 16 x 16*	1370 1625 1460 1240	16 x 25 16 x 32 18 x 20* 16 x 20*	1975 2070 1720 1490	18 x 25* 16 x 35.5	1970 2275 2430	18 x 35.5 22 x 40	2500 2785	22 x 40	3000		
4700	472	16 x 16* 12.5 x 20 16 x 25	1410 1545 1880	16 x 16* 16 x 20* 12.5 x 25 16 x 25	1420 1560 1780 1980	16 x 20* 18 x 20* 16 x 25 16 x 31.5	1600 1770 2090 2260	18 x 25* 18 x 31.5 18 x 35.5	2070 2420 2520	18 x 35.5	2700	22 x 40 25 x 40	3155 3300	25 x 40	3560		
6800	682	16 x 20* 12.5 x 25 16 x 25	1660 1880 2120	18 x 20* 16 x 20* 16 x 25	1870 1700 2220	18 x 25* 18 x 20* 16 x 31.5	2170 1850 2520	18 x 35.5	2880								
10000	103	18 x 20* 16 x 25 16 x 31.5	2020 2530 2500	16 x 20* 18 x 25* 16 x 35.5 18 x 35.5	2050 2370 2670 2880	18 x 35.5 18 x 40	2920 3080	18 x 40 22 x 40	3080 3440								
22000	223	22 x 40	3700	18 x 40 22 x 40	3370 3790	22 x 40	2900										

V.DC		160V (2G)		200V (2D)		250V (2E)		350V (2V)		400V (2G)		450V (2W)	
μF	Code	Φ D x L	mA	Φ D x L	mA	Φ D x L	mA	Φ D x L	mA	Φ D x L	mA	Φ D x L	mA
0.47	R47	5 x 11 6.3 x 11	13 15	5 x 11 6.3 x 11	14 16	8 x 11.5	21	6.3 x 11 8 x 12	18 21	8 x 11.5 10 x 12.5	21 26	8 x 11.5 10 x 12.5	21 26
1.0	010	5 x 11 6.3 x 11	20 24	5 x 11 6.3 x 11	21 25	8 x 11.5	32	6.3 x 11.0 8 x 12	27 32	8 x 11.5 10 x 12.5	32 38	8 x 11.5 10 x 12.5	32 38
2.2	2R2	5 x 11 6.3 x 11	29 34	6.3 x 11 8 x 11.5	37 44	6.3 x 11 8 x 11.5	42 49	8 x 11.5 10 x 16.0	49 63	8 x 12.5 10 x 16	57 63	10 x 12.5 10 x 16	57 63
3.3	3R3	6.3 x 11 8 x 11.5	43 50	6.3 x 11 8 x 11.5	46 54	8 x 11.5 10 x 12.5	60 70	10 x 12.5 10 x 16	70 78	10 x 16 10 x 20	78 86	10 x 12.5 10 x 16	78 86
4.7	4R7	6.3 x 11 8 x 11.5	51 60	8 x 11.5 10 x 12.5	64 76	8 x 11.5 10 x 16	72 93	10 x 16 10 x 20	93 103	10 x 12.5 10 x 20	80 103	10 x 12.5 10 x 10.3	75 103
10	100	10 x 12.5 10 x 16	104 115	10 x 12.5 10 x 20	112 138	10 x 16 10 x 20	138 150	10 x 20 12.5 x 20	150 174	12.5 x 16* 10 x 20 12.5 x 20 12.5 x 20	150 140 174 150	10 x 20 12.5 x 20	140 174
22	220	10 x 20 12.5 x 20	189 216	10 x 20 12.5 x 20	204 243	10 x 20 12.5 x 20 12.5 x 16*	220 255 280	12.5 x 20 12.5 x 25	255 282	12.5 x 20 12.5 x 25 16 x 16*	280 318 280	12.5 x 25 16 x 25	300 354
33	330	10 x 20 12.5 x 20 12.5 x 16*	228 270 305	12.5 x 16* 12.5 x 20 16 x 16*	350 210 288 350	12.5 x 20 12.5 x 25 16 x 16*	310 348 350	16 x 25 16 x 31.5	390 438	13 x 25 16 x 25 16 x 20*	325 426 355	16 x 20 16 x 31.5 18 x 35.5	350 378 426
47	470	12.5 x 20 16 x 16* 12.5 x 16* 12.5 x 25	318 354 360 420	12.5 x 20 16 x 16* 16 x 20* 12.5 x 25	300 390 420 378	12.5 x 25 16 x 20* 16 x 25	420 420 468	16 x 20 16 x 31.5	385 474	16 x 25 16 x 31.5 18 x 20*	395 485 435	16 x 31.5 16 x 35.5 18 x 40	460 414 555
68	680	16 x 16* 16 x 20*	440 490	16 x 16* 18 x 20*	470 190	18 x 20*	490						
100	101	12.5 x 25 16 x 25 16 x 20* 18 x 20*	510 582 560 590	16 x 20* 16 x 25 18 x 25* 16 x 35.5	520 582 590 678	16 x 35.5 16 x 31.5	732 645	16 x 31.5 18 x 40	645 685	18 x 35.5 22 x 40	600 710	18 x 40 22 x 45	630 750
150	151	18 x 20* 18 x 25*	640 710										
220	221	16 x 31.5 18 x 35.5	792 900	18 x 31.5 18 x 35.5	825 1002								
330	331	18 x 35.5 18 x 40	984 1010	18 x 40	1200								

\* = Flat (non-vented) rubber bung.  
Other units are made with raised (vented) rubber bung.

### LEAD SPACING AND DIAMETER

φ D	5	6.3	8	10	13	16	18	22	25
P	2.0	2.5	3.5	5.0	5.0	7.5	7.5	10	12.5
φ d	0.5			0.6			0.8		1.0
α	1.0			1.5			2.0		
β	0.5								



### PART NUMBER EXAMPLE

REA 471 M 1C BK 100 125