Lelon

REA Series

Features

- 85°C, 2,000 ~ 3,000 hours assured
- Standard series for general purposes
- · RoHS Compliance

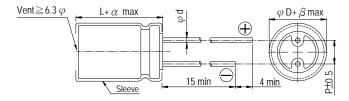


Sleeve & Marking Color: Blue & Black

Specifications

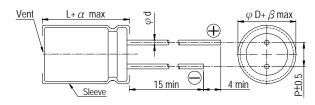
Items							Perforr	mance	6								
Category Temperature Range	-40°C ~ +85°C																
Capacitance Tolerance	±20% (at 120Hz, 20°C)																
Capacitarios Tolorarios	Ra	ted volta	ge		≦10	nv						100V				7	-,,
Leakage Current (at 20°C)	- 1.00	Time	90	aftı					after 5 minutes							-	
Leakage Current (at 20 0)	Look	kage Cur	ront	after 2 minutes I = 0.01CV or 3 (μA)					CV ≤ 1,000 CV > 1,0								
	Lear			whichever is greater					$I = 0.03CV + 15(\mu A)$ $I = 0.02CV + 2$								
	Where, C = rated capacitance in μF V = rated DC working voltage in \											ge in V	'				
	Rated Voltage	e 6.3	10	16	25	35	50	63	3 10	0 1	60	200	250	350	400) 45	i0
Tanδ (at 120 Hz, 20°C)	Tanδ (max)	0.23				0.12		0.09	_	-			0.17				
	rano (max)			citance ex													
	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	450
Low Temperature	Z(-25°C)	φD<1	6 6	4	3	3	2	2	2	2	3	6	8	12	14	16
Characteristics (at 120Hz)		+20°C)	φ D≧1		6	4	4	3	3	3	3	3	Ü	0	12	1-7	10
		-40°C)	φD<1		8	6	6	4	3	3	3	4	8	10	16	18	20
	/Z(+20°C)	φD≧1	16 18	16	12	10	8	8	6	6	<u> </u>	<u> </u>				
	Test Time 2,000 Hrs (3,000 Hrs for $\phi D \ge 10$ mm)																
		(Capacitance Change					With in ±20% of initial value									
Endurance			Tanō Less					ss th	ss 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 the rated voltage applied with rated ripple current for 2,000 / 3,000 hours at 85°C.																
	ripple current for 2	2,000 / 3,	,000 hou	irs at 85°C). 												
			Tes	st Time					1	,000 F	Irs						
		(With in ±20% of initial value								
Shelf Life Test								ess than 200% of specified value									
				ge Currer			Within specified value										
	* The above Specifications shall be satisfied when the capacitors are restored to 20°C after exposing them 85°C without voltage applied. The rated voltage shall be applied to the capacitors before the measureme (Refer to JIS C 5101-4 4.1).																
											ureme	ents fo	r 160 ⁻	~ 450\			
	(Leiei 10 119 C 21	υ 1 -4 4. Ί	<i>J</i> ·														
				Freq. (Hz)	60 (5	0)	120)	500)	1k	(10k	up		
Ripple Current &	C	Cap. (µF)	Under 1	00	_	•								1.5	·		
Frequency Multipliers			Under 1 0 <c≦1< td=""><td></td><td></td><td>0.70</td><td></td><td>1.00</td><td></td><td>1.30</td><td></td><td>1.4</td><td></td><td>1.5</td><td></td><td></td><td></td></c≦1<>			0.70		1.00		1.30		1.4		1.5			
			00 up a	,		0.75		1.00		1.10		1.3		1.1			
		1,0	ooo up a	DOVE		0.00		1.00	,	1.10	,	1.1	_	1.1	J		

Diagram of Dimensions



Lead Spacing and Diameter Unit: mm											
12.5	16	18	22	25							
5.0	7.5	7.5	10	12.5							
0.5 0.6 0											
L<20: 1.5, L≧20: 2.0 2.0											
0.5											
	5.0 ≥20: 2.	5.0 7.5 0 ≥20: 2.0	5.0 7.5 7.5 0.8 ≥20: 2.0	5.0 7.5 7.5 10 0.8 1 ≥20: 2.0 2							

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





Dimension & Permissible Ripple Current

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

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

V. DC				10V (16V ((1C)	25V (′1F)	35V (1\/)	50V (63V (1J)		100V (2A)	
_	_	φD×L	mA		mA	φD×L	mA	φD×L	mA	φD×L	<u> </u>	φD×L	,	φD×L	· ,	φD×L	` ′
	Contents	φD×L	mA	φD×L	mA	φD×L	mA	φD×L	mA	φD×L	mA		mA	φD×L	mA	,	mA
2.2	2R2											5×11	29			5×11	33
3.3	3R3											5×11	35			5×11	40
4.7	4R7											5×11	42			5×11	48
10	100											5×11	65	5×11	70	5×11	59
22	220											5×11	95	6.3×11	115	6.3×11 8×11.5	115 135
33	330									5×11	108	6.3×11 5×11	136 125	6.3×11	140	8×11.5	145
47	470							5×11	115	5×11	130	6.3×11	165	6.3×11	170	10×12.5	235
100	101					5×11	160	6.3×11	190	6.3×11	210	8×11.5	260	8×11.5 10×12.5	245 320	10×16	325
220	221			5×11	220	6.3×11	260	8×11.5	320	8×11.5	385	10×12.5	455	10×16	490	12.5×20 16×16	640 625
330	331			6.3×11	290	6.3×11	290	8×11.5	440	10×12.5	490	10×16	585	10×20 12.5×16	710 675	16×20 18×16	695 685
470	471			6.3×11	350	8×11.5	440	10×12.5	545	10×16	740	10×20 12.5×16	755 610	16×16 12.5×20	910 900	16×25	910
1,000	102	8×11.5	540	10×12.5 8×11.5	650 550	10×12.5	635	10×20 12.5×16	955 830	12.5×20 16×16	1,145 1,010	12.5×25 16×20	1,340 1,160	16×20	1,260	18×40	1,820
2,200	222	10×16	845	10×20 12.5×16	1,070 970	12.5×16 16×16	930 1,160	12.5×25 16×16	1,540 1,150	16×20	1,390	16×35.5	1,960	18×31.5	2,040		
3,300	332	10×20 12.5×16	1,185 960	12.5×20	1,420	12.5×20 16×16	1,450 1,240	16×20	1,490	16×31.5 18×25	2,070 1,970	18×35.5	2,500	18×40	2,575		
4,700	472	12.5×20	1,545	12.5×25 16×16	1,780 1,420	16×20 18×16	1,600 1,820	16×25 18×25	2,100 2,170	18×35.5	2,700	22×40	3,040				
6,800	682	12.5×25	1,880	16×20 18×20	1,700 1,870	16×25 18×20	2,280 1,890	16×35.5 18×31.5	2,475 2,550	22×40	2,900	22×45	3,185				
10,000	103	16×20 18×20	2,000 2,020	16×25 18×25	2,150 2,370	18×31.5 16×35.5	2,590 2,450	18×40	3,080	22×45	3,400						
15,000	153	16×31.5 18×25	2,460 2,375	16×40 18×31.5	2,730 2,620	18×40	3,100	22×45 25×40	3,780 3,850								
22,000	223	18×31.5	2,780	18×40	3,370	22×40	3,900	25×45	4,290								
33,000	333	22×40	3,700														

V. DC		160V	(2C)	200V	(2D)	250V	(2E)	350V	(2V)	400V	(2G)	450V ((2W)
μF	Contents	φD×L	mA	φD×L	mA	φD×L	mA	φD×L	mA	φD×L	mA	φD×L	mA
1	010					5×11	18	5×11	18	5×11	22	6.3×11	25
2.2	2R2			5×11	29	6.3×11	33	6.3×11	33	6.3×11	33	8×11.5	45
3.3	3R3			6.3×11	46	6.3×11	46	8×11.5	50	8×11.5	50	10×12.5	65
4.7	4R7			6.3×11	50	8×11.5	55	8×11.5	60	8×11.5 10×12.5	55 80	8×11.5 10×12.5	55 80
10	100	8×11.5	75	8×11.5	81	10×12.5	100	10×16	110	10×16	110	10×20	140
22	220	10×12.5	130	10×12.5	135	10×16	150	12.5×16	185	12.5×20	200	12.5×25	300
33	330	10×16	175	10×16	180	10×20 12.5×16	215 220	12.5×20 16×16	245 260	16×16	260	16×20	270
47	470	10×20 12.5×16	230 250	10×20 12.5×16	240 250	12.5×20	290	16×20 18×16	340 310	16×20	340	16×31.5	390
68	680	12.5×20	330	12.5×20 16×16	330 370	12.5×25	370	16×25 18×20	420 410	16×31.5	435	16×35.5	460
100	101	12.5×25	440	16×20 18×16	460 450	16×25	510	16×31.5 18×25	540 520	16×40 18×35.5	560 570	18×35.5	570
150	151	16×25	620	16×25 18×20	620 605	16×31.5 18×25	625 630	18×35.5	640	18×40	670	22×45	800
220	221	16×31.5 18×25	790 760	16×35.5	830	16×40 18×35.5	840 890	22×40	920	22×45 25×40	960 980	25×45	1,030
330	331	18×35.5	985	18×40	1,150	22×40	1,200	25×45	1,270				
470	471	18×40	1,150	22×40	1,400	22×45	1,470						

Part Numbering System

Pb-free and PET Gas **REA** series 470µF ±20% 16V **Bulk Package** $8 \phi \times 11.5L$ Туре coating case **REA** <u>471</u> M <u>1C</u> <u>BK</u> <u>0811</u> Capacitance Rated Rubber Lead Wire and Series Capacitance Configuration Case Size Tolerance Voltage Coating Type & Package

Note: For more details, please refer to "Part Numbering System (Radial Type)" on page 10.