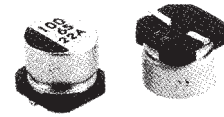


FEATURES

- 105°C, 2000 hours assured
- RoHS Compliant
- Voltages up to 450 vdc



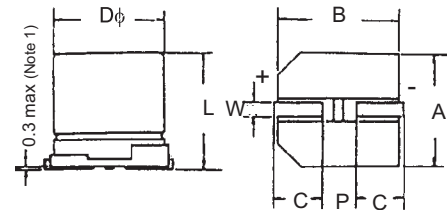
SPECIFICATIONS

Item	Performance													
Operating Temp. Range	-40°C ~ + 105°C													
Capacitance Tolerance	± 20% (120Hz, 20°C)													
Leakage Current (at 20°C)	6.3 ~ 100V	4 ~ 10 Ø	I=0.01CV or 3µA, whichever is greater, after 2 minutes at +20°C											
		12.5 ~ 16 Ø	I=0.03CV or 4µA, whichever is greater, after 1 minute at +20°C											
	160 ~ 450V	12.5 ~ 16 Ø	I=0.04CV +100µA after 1 minute at +20°C											
Where I=Leakage Current C=Rated Capacitance in µF V=Rated DC working voltage V														
Dissipation Factor Tan δ at 120 Hz, 20°C	Rated Voltage	6.3	10	16	25	35	50	63	100	160-250	400-450			
	4 ~ 10 Ø	0.45	0.35	0.28	0.18	0.16	0.14	0.12	0.12	—	—			
	12.5 ~ 16 Ø	0.40	0.38	0.34	0.26	0.22	0.18	0.14	0.10	0.20	0.25			
Low Temperature Characteristics (at 120Hz)	Rated Voltage			6.3	10	16	25	35	50	63	100	160-250	400-450	
	Impedance Ratio	Z(-25°C)/Z(+20°C)		4 ~ 10φ	4	3	2	2	2	2	2	3	—	—
		Z(-40°C)/Z(+20°C)		12.5 ~ 16φ	5	4	3	2	2	2	2	2	3	6
					4 ~ 10φ	12	8	6	3	3	3	4	—	—
				12.5 ~ 16φ	10	8	6	3	3	3	3	6	10	
Life Test	Test Time	Load Life					Shelf Life							
		Voltage	2000 Hrs					1000 Hrs						
	Capacitance Change	Within ± 20% of initial value					Within ± 20% of initial value							
	Dissipation Factor	Less than 200% of specified value					Less than 200% of specified value							
	Leakage Current	Within specified value					Within specified value							
	Test Conditions	The above specifications shall be satisfied when the capacitors are restored to 20 after the rated voltage applied with rated ripple current for 2000 hrs												
Standards	JIS C 5101-18-1													

PAD SPACING AND DIAMETER

Unit: mm

φD	L	A	B	C	W	P±0.2
4	5.7±0.3	4.3	4.3	2.0	0.5 to 0.8	1.0
5	5.7±0.3	5.3	5.3	2.3	0.5 to 0.8	1.5
6.3	5.7±0.3	6.6	6.6	2.7	0.5 to 0.8	2.0
6.3	7.7±0.3	6.6	6.6	2.7	0.5 to 0.8	2.0
8	10±0.3	8.4	8.4	3.0	0.7 to 1.1	3.1
10	10±0.3	10.4	10.4	3.3	0.7 to 1.1	4.7
12.5	13.5±0.3	12.8	12.8	4.9	1.1 to 1.4	4.6
12.5	16±0.3	12.8	12.8	4.9	1.1 to 1.4	4.6
16	16.5±0.3	16.3	16.3	5.8	1.8 to 2.2	6.0



Note 1-Diameters of 12.5mm & 16mm diameter is 0.4mm Max

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■ DIMENSION & PERMISSIBLE RIPPLE CURRENT

Dimension: $\phi D \times L$ (mm)
Ripple Current mA/rms at 120 Hz, 105°C

VDC		6.3V (0J)		10V (1A)		16V (1C)		25V (1E)		35V (1V)		50V (1H)	
μF	Contents	$\phi D \times L$	mA	$\phi D \times L$	mA	$\phi D \times L$	mA	$\phi D \times L$	mA	$\phi D \times L$	mA	$\phi D \times L$	mA
0.1	0R1											4 x 5.7	2
0.22	R22											4 x 5.7	3
0.33	R33											4 x 5.7	4
0.47	R47											4 x 5.7	5
1	010											4 x 5.7	10
2.2	2R2											4 x 5.7	16
3.3	3R3											4 x 5.7	18
4.7	4R7							4 x 5.7	13	4 x 5.7	16	5 x 5.7	20
10	100					4 x 5.7	17	5 x 5.7	23	5 x 5.7	27	6.3 X 5.7	32
22	220					5 x 5.7	30	6.3 x 5.7	38	6.3 x 5.7	44	6.3 x 5.7	47
33	330					6.3 X 5.7	45	6.3 x 5.7	50	6.3 x 5.7	54	6.3 x 7.7	65
47	470			6.3 x 5.7	48	6.3 X 5.7	48	6.3 x 5.7	60	6.3 x 7.7	80	6.3 x 7.7	80
100	101	6.3 x 5.7	69	6.3 x 5.7	69	6.3 X 5.7	69	6.3 x 7.7	100	6.3 x 7.7	100	8 x 10	230
220	221	6.3 x 7.7	120	6.3 x 5.7	120	6.3 x 7.7	120	8 x 10	320	10 x 10	375	10 X 10	375
330	331	8 x 10	290	8 x 10	290	8 x 10	290	10 x 10	450	10 X 10	450	12.5x13.5	500
470	471	8 x 10	320	8 x 10	320	8 x 10	320	10 X 10	490	12.5x13.5	520	12.5 X 16	550
1000	102	10 x 10	410	10 x 10	410	12.5x13.5	550	12.5x13.5	550	16 x 16.5	750		
2200	222	12.5 x 13.5	680	12.5 x 16	750	16 x 16.5	950	16 x 16.5	820				
3300	332	12.5 x 16	850	16 x 16.5	1000	16 x 16.5	950						
4700	472	16 x 16.5	1000	16 x 16.5	1000								
6800	682	16 x 16.5	1000										

VDC		63V (1J)		100V (2A)		160V (2C)		200V (2D)		250V (2E)		400V (2G)	
μF	Contents	$\phi D \times L$	mA	$\phi D \times L$	mA	$\phi D \times L$	mA	$\phi D \times L$	mA	$\phi D \times L$	mA	$\phi D \times L$	mA
0.47	R47	4 x 5.7	5										
1	010	4 x 5.7	8										
2.2	2R2	4 x 5.7	12										
3.3	3R3	5 x 5.7	17							12.5 x 13.5	65		
4.7	4R7	6.3 x 5.7	22							12.5 x 13.5	68	12.5 x 13.5	50
10	100	6.3 x 5.7	32					12.5 x 13.5	80	12.5 x 13.5	72	12.5 x 13.5	65
22	220	6.3 x 7.7	58	8 x 10	100			12.5 x 13.5	90	12.5 x 13.5	90	16 x 16.5	85
33	330	8 x 10	140	10 x 10	150	12.5 x 13.5	95	12.5 x 16	110	16 x 16.5	180		
4.7	470	8 x 10	170	12.5 x 13.5	250	12.5 x 16	110	16 x 16.5	220	16 x 16.5	180		
100	101	10 x 10	310	12.5 x 13.5	380	16 x 16.5	190						
220	221	12.5 x 13.5	470	16 X 16.5	450								
330	331	16 x 16.5	700										
470	471	16 X 16.5	700										

VDC		450V (2W)	
μF	Contents	$\phi D \times L$	mA
3.3	3R3	12.5 x 13.5	40
4.7	4R7	12.5 x 13.5	50
10	100	12.5 x 16	55
22	220	16 x 16.5	85

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