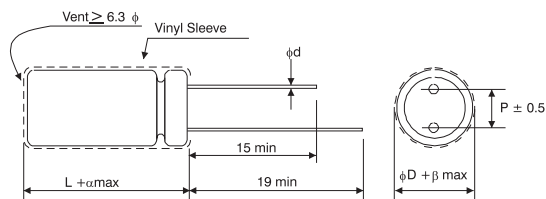


FEATURES

- 1,000 ~ 3,000 hours assured
- 130°C
- For high temperature applications
- RoHS Compliant



SPECIFICATIONS

Items	Performance														
Operating Temperature Range	10 ~ 250V							350 ~ 450V							
	-40°C ~ +130°C							-25°C ~ 130°C							
Capacitance Tolerance	±20% (at 120Hz, 20°C)														
Leakage Current (at 20°C)	Rated Voltage	≤ 100V					> 100V								
	Time	after 2 minutes					after 1 minutes								
	Leakage Current	I = 0.01CV or 3 (μA) whichever is greater					CV ≤ 1000 I = 0.1CV+40 (μA)			CV ≥ 1000 I = 0.04CV+100 (μA)					
	Where C = rated capacitance in μF. V = rated DC working voltage in V.														
Dissipation Factor (Tan δ at 120Hz, 20°C)	Rated Voltage	10	16	25	35	50	63	160	200	250	350	400	450		
	Tan (max)	0.15	0.12	0.10	0.10	0.08	0.08	0.20	0.20	0.20	0.24	0.24	0.24		
Low Temperature Characteristics (at 120Hz)	Impedance ratio shall not exceed the values given in the table below.														
	Rated Voltage		10	16	25	35	50	63	160	200	250	350	400	450	
	Impedance Ratio	Z (-25) / Z (+20°C)	3	2	2	2	2	2	3	3	3	6	6	6	
Z (-40) / Z (+20°C)		6	4	4	4	4	4	6	6	6	-	-	-		
Load Life Test	Test Time	2,000 hrs for D ≤ 8 mm (125°C) 3,000 hrs for D ≥ 10 mm (130°C)													
	Capacitance Change	Within ± 20% of initial value													
	Dissipation Factor	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 applied with rated subjected to DC voltage with the rated ripple current is applied for 2,000 / 3,000 hrs at 125°C / 130°C														
Shelf Life Test	Test Time	1,000 hours													
	Capacitance Change	Within + 20% of initial value													
	Dissipation Factor	Less than 200% of specified value													
	Leakage Current	Less than 500% of specified value													
	* The above specifications shall be satisfied when the capacitors are restored to 20°C after exposing them for 1,000 hrs at 130°C without voltage applied. (The procedures before testing JIS C 5102 4.4)														
Other Standards	JIS C 5101-4														

LEAD SPACING AND DIAMETER

	mm			
D	8	10	12.5	16
P	3.5	5.0	5.0	7.5
d	0.6			0.8
	1.0	1.5		
	0.5			

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DIMENSIONS AND PERMISSABLE RIPPLE CURRENT

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

Ripple Current: mA/RMS at 120Hz 130°C

V.DC		10V (1A)		16V (1C)		25V (1E)		35V (1V)	
μF	Contents	D x L	mA	D x L	mA	D x L	mA	D x L	mA
22	220							8 x 11.5	75
33	330					8 x 11.5	92	10 x 13	108
47	470			8 x 11.5	100	10 x 12.5	129	10 x 16	142
100	101	10 x 12.5	154	10 x 16	190	10 x 16	208	10 x 20	225
220	221	10 x 16	252	10 x 20	305	12.5 x 20	371	12.5 x 25	403
330	331	10 x 16	308	12.5 x 20	414	12.5 x 25	493	16 x 20	503
470	471	10 x 20	399	12.5 x 25	537	16 x 20	601		
1,000	102	16 x 20	715						

V.DC		50V (1H)		63V (1J)		160V (2C)		200V (2D)	
μF	Contents	D x L	mA	D x L	MA	D x L	mA	D x L	mA
0.47	R47	8 x 11.5	12	8 x 11.5	12				
1	010	8 x 11.5	17	8 x 11.5	17				
2.2	2R2	8 x 11.5	26	8 x 11.5	26				
3.3	3R3	8 x 11.5	32	8 x 11.5	32				
4.7	4R7	8 x 11.5	38	8 x 11.5	38				
10	100	8 x 11.5	56	8 x 11.5	56			10 x 20	78
22	220	10 x 12.5	99	10 x 12.5	99	10 x 20	115	10 x 25	126
33	330	10 x 16	133	10 x 16	133	10 x 25	154	12.5 x 20	157
47	470	10 x 16	159	10 x 20	173	12.5 x 20	187	12.5 x 25	204
68	680					12.5 x 25	245	16 x 20	250
100	101	12.5 x 20	279	12.5 x 20	279	16 x 25	329	16 x 25	329
150	151					16 x 31.5	434		
220	221	16 x 20	459						

V.DC		250V (2E)		350V (2V)		400V (2G)		450V (2W)	
μF	Contents	D x L	mA	D x L	mA	D x L	MA	D x L	mA
4.7	4R7			10 x 20	53	10 x 20	53	10 x 25	58
10	100	10 x 20	78	10 x 25	85	10 x 25	86	12.5 x 20	86
22	220	13 x 20	128	12.5 x 25	139	12.5 x 25	142	16 x 25	154
33	330	13 x 25	171	16 x 25	189	16 x 25	189	16 x 31.5	203
47	470	16 x 25	225	16 x 31.5	243	16 x 31.5	243		
68	680	16 x 31.5	292						

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