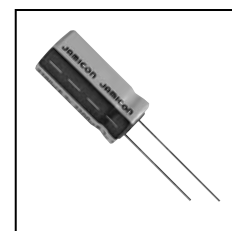


- Standard low leakage current series.
- Suitable for Hi-Fi pre-amplifiers and TV oscillation loop circuits.

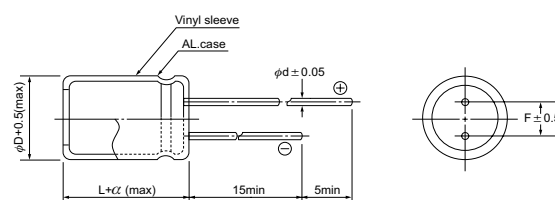


● SPECIFICATION

Item	Characteristic							
Operation Temperature Range	-40 ~ +85°C							
Rated Working Voltage	10 ~ 63VDC							
Capacitance Tolerance (120Hz 20°C)	±20%(M)				+30% -10%(Q)			
Leakage Current (20°C)	$I \leq 0.004CV$ or $0.4 (\mu A)$ *Under 1kΩ resistor series and rated voltage applied whichever is greater after 1 minute				I : Leakage Current (μA) C : Rated Capacitance (μF) V : Working Voltage (V)			
Surge Voltage (20°C)	W.V.	10	16	25	35	50	63	
	S.V.	13	20	32	44	63	79	
Dissipation Factor (tan δ) (120Hz 20°C)	W.V.	10	16	25	35	50	63	
	tan δ	0.20	0.16	0.14	0.12	0.10	0.10	
Low Temperature Stability	Impedance ratio at 120Hz							
	Rated Voltage (V)	10	16	25	35	50	63	
	-25°C / +20°C	4	4	4	4	4	4	
	-40°C / +20°C	8	8	8	8	8	8	
Load Life	After 2000 hours application of W.V. at +85°C, the capacitor shall meet the following limits.							
	Capacitance Change	±15% of initial value						
	Dissipation Factor	≤150% of initial specified value						
	Leakage current	≤initial specified value						
Shelf Life	At +85°C no voltage application after 1000 hours the capacitor shall meet the limits for load life characteristics. (with voltage treatment)							

● DIMENSIONS (mm)

φD	5	6.3	8	10	12.5
F	2.0	2.5	3.5	5.0	5.0
d	0.5	0.5	0.6	0.6	0.6
α	1.5	1.5	1.5	1.5	1.5



● CASE SIZE & MAX RIPPLE CURRENT

Case size : D x L (mm)
 Max ripple current : mA(rms) 85°C 120Hz

μF	V(Code)		10 (1A)		16 (1C)		25 (1E)	
	Code	Item	DxL	R.C.	DxL	R.C.	DxL	R.C.
4.7	4R7					→	5x11	36
10	100			→	5x11	48	6.3x11	60
22	220		5x11	65	6.3x11	80	8x11.5	100
33	330		6.3x11	90	6.3x11	100	8x11.5	130
47	470		6.3x11	110	8x11.5	140	10x12.5	160
100	101		8x11.5	180	10x12.5	210	10x16	250
220	221		10x16	310	10x20	390	12.5x20	410
330	331		10x20	420	12.5x20	470	12.5x25	560
470	471		12.5x20	500	12.5x20	560		
1000	102		12.5x25	810				

μF	V(Code)		35 (1V)		50 (1H)		63 (1J)	
	Code	Item	DxL	R.C.	DxL	R.C.	DxL	R.C.
0.1	0R1			→	5x11	6	5x11	6
0.22	R22			→	5x11	9	5x11	9
0.33	R33			→	5x11	11	5x11	11
0.47	R47			→	5x11	13	5x11	13
1	010			→	5x11	19	5x11	19
2.2	2R2			→	5x11	29	5x11	29
3.3	3R3			→	5x11	35	5x11	35
4.7	4R7		5x11	38	6.3x11	48	6.3x11	48
10	100		6.3x11	65	8x11.5	80	8x11.5	80
22	220		8x11.5	110	10x12.5	130	10x16	140
33	330		10x12.5	140	10x16	170	10x16	170
47	470		10x12.5	170	10x16	210	10x20	230
100	101		10x20	300	12.5x20	330	12.5x25	360
220	221		12.5x25	490				

All blank voltage on sleeve marking is the same voltage as " → "point to.