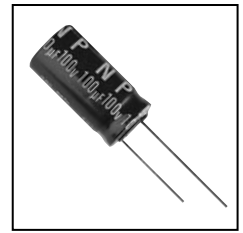


- Standard non polarity series for using in polarity reversal circuits.

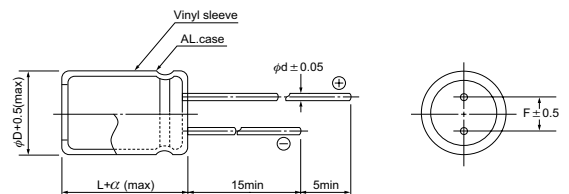


SPECIFICATION

Item	Characteristic									
Operation Temperature Range	-40 ~ +85°C									
Rated Working Voltage	6.3 ~ 100VDC									
Capacitance Tolerance (120Hz 20°C)	±20%(M)									
Leakage Current (20°C)	$I \leq 0.04CV + 4 (\mu A)$					I : Leakage Current (μA)				
	*Whichever is greater after 5 minutes					C : Rated Capacitance (μF)				
						V : Working Voltage (V)				
Surge Voltage (20°C)	W.V.	6.3	10	16	25	35	50	63	100	
	S.V.	8	13	20	32	44	63	79	125	
Dissipation Factor (tan δ) (120Hz 20°C)	Add 0.02 per 1000 μF for more than 1000 μF									
	W.V.	6.3	10	16	25	35	50	63	100	
	tan δ	0.24	0.20	0.17	0.15	0.12	0.12	0.12	0.12	
Low Temperature Stability	Impedance ratio at 120Hz									
	Rated Voltage (V)	6.3	10	16	25	35	50	63	100	
	-25°C / +20°C	4	3	2	2	2	2	2	2	
	-40°C / +20°C	10	8	6	4	4	3			
Load Life	After 2000 hours application of W.V. at +85°C, the capacitor shall meet the following limits. (The polarity needs to exchange every 250 hours)									
	Capacitance Change	$\leq \pm 20\%$ of initial value								
	Dissipation Factor	$\leq 150\%$ of initial specified value								
	Leakage current	\leq initial specified value								
Shelf Life	At +85°C no voltage application after 500 hours the capacitor shall meet the following limits. (with voltage treatment)									
	Capacitance Change	$\leq \pm 20\%$ of initial value								
	Dissipation Factor	$\leq 200\%$ of initial specified value								
	Leakage current	$\leq 200\%$ of initial specified value								

DIMENSIONS (mm)

ϕD	5	6.3	8	10	12.5	16	18
F	2.0	2.5	3.5	5.0	5.0	7.5	7.5
d	0.5	0.5	0.6	0.6	0.6	0.8	0.8
α	1.5	1.5	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)		6.3 (0J)		10 (1A)		16 (1C)	
	Code	Item	DxL	R.C.	DxL	R.C.	DxL	R.C.
10	100					→	5x11	47
22	220				5x11	65	6.3x11	80
33	330		5x11	70	6.3x11	90	8x11.5	110
47	470		6.3x11	100	6.3x11	110	8x11.5	140
100	101		8x11.5	170	8x11.5	180	10x16	230
220	221		10x12.5	260	10x16	310	10x20	380
330	331		10x16	350	10x20	420	12.5x20	460
470	471		10x20	460	12.5x20	500	12.5x25	600
1000	102		12.5x25	740	16x31.5	950	16x31.5	1030
2200	222		16x31.5	1240	16x35.5	1350	16x31.5	1450
3300	332		16x25	1540	16x31.5	1500	18x35.5	1900
4700	472		16x31.5	1660	18x35.5	2000		
6800	682		18x35.5	2120				

μF	V(Code)		25 (1E)		35 (1V)		50 (1H)	
	Code	Item	DxL	R.C.	DxL	R.C.	DxL	R.C.
0.47	R47					→	5x11	12
1	010					→	5x11	18
2.2	2R2					→	5x11	26
3.3	3R3					→	6.3x11	37
4.7	4R7		5x11	34	5x11	38	6.3x11	44
10	100		6.3x11	55	6.3x11	65	8x11.5	75
22	220		8x11.5	100	8x11.5	110	10x12.5	120
33	330		8x11.5	120	10x12.5	140	10x16	160
47	470		10x12.5	150	10x16	190	10x20	210
100	101		10x20	270	12.5x20	300	12.5x25	330
220	221		12.5x20	400	12.5x25	490	16x31.5	580
330	331		16x25	570	16x25	640	16x35.5	750
470	471		16x31.5	760	16x31.5	840	16x31.5	840
1000	102		16x31.5	1100	16x35.5	1300		
2200	222		18x35.5	1730				

μF	V(Code)		63 (1J)		100 (2A)	
	Code	Item	DxL	R.C.	DxL	R.C.
0.47	R47			→	5x11	12
1	010			→	5x11	18
2.2	2R2		5x11	26	6.3x11	30
3.3	3R3		6.3x11	37	8x11.5	43
4.7	4R7		6.3x11	44	8x11.5	50
10	100		8x11.5	75	10x16	85
22	220		10x16	130	12.5x20	140
33	330		10x20	170	12.5x25	190
47	470		12.5x20	210	16x25	240
100	101		16x25	350	16x31.5	390
220	221		16x31.5	580	18x35.5	650
330	331		18x35.5	800	18x35.5	800
470	471		18x35.5	950	18x40	1000

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