

ALUMINUM ELECTROLYTIC CAPACITOR

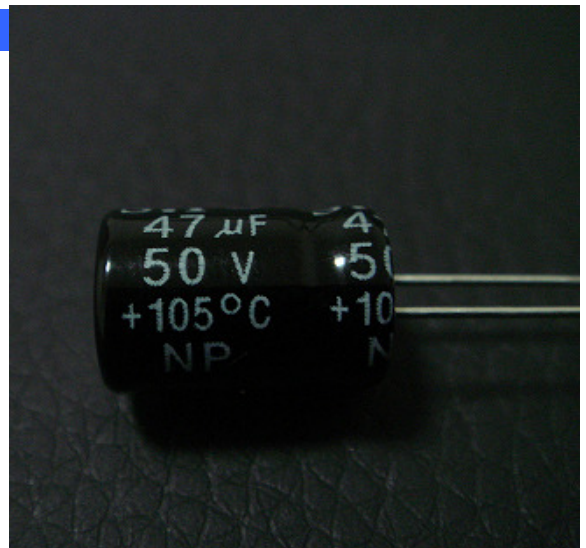
NP SERIES

無極性特准品 NON POLAR

* 適用於極性反轉回路及須急劇印加逆向電壓之回路，

例如：信號交連或喇叭等回路。

* Suitable for use in circuits whose polarity is reversed such as: signal coupling circuits and speakers, etc.

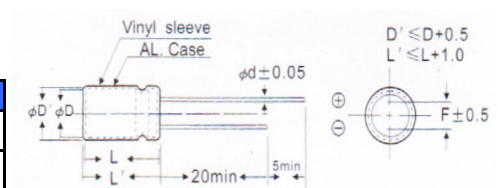


SPECIFICATION

Item	Characteristic									
使用溫度範圍 Operation Temperature Range	-40°C ~ +105°C									
額定電壓 Rated Working Voltage	6.3~100V DC									
靜電容量容許差 (120Hz 25°C) Capacitance Tolerance	±20%(M) +10% (K) -10%									
漏洩電流 (25°C) Leakage Current	$I \leq 0.01CV + 4 \text{ (u A)}$ whichever is greater after 5 minutes I: Leakage Current (u A) C: Rated Capacitance (u F) V: Working Voltage (V)									
湧浪電壓 (25°C) Surge Voltage	W.V.	6.3	10	16	25	35	50	63	100	
	S.V.	8	13	20	32	44	63	79	125	
散逸因素 120Hz 25°C) Dissipation Factor (tan δ)	Add 0.02 per 1000 u F for more than 1000 u F									
	W.V.	6.3	10	16	25	35	50	63	100	
	tan δ	0.26	0.24	0.22	0.20	0.16	0.14	0.12	0.12	
低溫特性 Low Temperature Stability	Impedance ratio at 120Hz									
	Rated Voltage 【V】	6.3	10	16	25	35~100				
	-40°C/+25°C	10	8	6	4	3				
高溫負荷特性 High Temperature Loading	After 1000 hours application of W.V. at +85°C the capacitor shall meet the following limits									
	Capacitance Change	≤ ±20% of initial value								
	Dissipation Factor	≤ 150% of initial specified value								
	Leakage Current	≤ initial specified value								

CASE SIZE OF RADIAL TYPE

D	4	5	6	8	10	13	16	18
F	1.5	2.0	2.5	3.5	5.0		7.5	
d	0.45	0.5	0.5	0.5	0.6	0.6	0.8	0.8



Case Size: D×L (mm)

E.S.R.: Ω 25°C 120Hz

Max ripple current: m A (rms)

(R.C.) 105°C 120Hz

CASE SIZE MAX RIPPLE CURRENT

[NPR]

u F	WV	6.3			10			16		
	ITEM	D×L	E.S.R	R.C.	D×L	E.S.R	R.C.	D×L	E.S.R	R.C.
10								4×7 5×11	28.18	47
22					4×7 5×11	15.07	65	5×7 5×11	12.81	80
33		5×11	12.06	70	5×7 6×11	10.05	90	6×7 6×11	8.54	110
47		6×11	8.47	100	5×7 6×11	7.06	110	6×7 6×11	6.00	130
100		6×7 8×11	3.98	160	8×11	3.32	180	8×11	2.82	230
220		10×13	1.81	260	10×16	1.51	310	10×21	1.28	380
330		10×16	1.21	350	10×21	1.01	430	10×21	0.85	480
470		10×21	0.85	470	13×21	0.71	530	13×21	0.60	630
1000		13×26	0.40	770	16×32	0.33	960	13×26	0.28	1040
2200		16×32	0.20	1250	16×35	0.17	1410			

CASE SIZE,E.S.R.& MAX RIPPLE CURRENT

[NPR]

Case Size: D×L (mm)

E.S.R.: Ω 25°C 120Hz

Max ripple current: m A (rms)

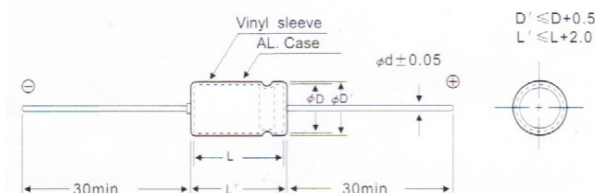
(R.C.) 105°C 120Hz

u F	WV	25			35			50		
	ITEM	DxL	E.S.R	R.C.	DxL	E.S.R	R.C.	DxL	E.S.R	R.C.
0.47								4×7 5×11	423.28	12
1								4×7 5×11	198.90	18
2.2								4×7 5×11	90.43	26
3.3								4×7 6×11	60.29	37
4.7		4×7 5×11	59.97	32	4×7 5×11	52.91	34	4×7 5×11	42.33	44
10		4×7 5×11	28.18	55	6×7 6×11	24.87	55	6×7 6×11	19.89	75
22		6×7 6×11	12.81	90	8×11	11.30	95	6×11 8×7 8×11	9.04	120
33		6×11	8.54	110	8×11	7.54	130	8×11	6.03	160
47		6×11	6.00	140	8×11	5.29	170	8×14	4.23	210
100		8×12	2.82	260	8×14	2.49	280	8×20	1.99	340
220		13×21	1.28	390	13×26	1.13	460	13×21	0.90	580
330		16×26	0.85	540	16×26	0.75	570	16×35	0.60	740
470		16×32	0.60	710	16×32	0.53	760			

u F	WV	63			100		
	ITEM	DxL	E.S.R	R.C.	DxL	E.S.R	R.C.
0.47					5×11	352.74	13
1					5×11	165.79	19
2.2		5×11	82.89	27	6×11	75.36	33
3.3		6×11	55.26	38	8×11	50.24	46
4.7		6×11	38.80	46	8×11	35.27	55
10		8×11	18.24	75	8×12	16.58	95
22		10×16	8.29	130	10×17	7.54	160
33		10×21	5.53	190	10×21	5.02	220
47		10×21	3.88	220	13×26	3.53	260
100		10×21	1.82	370	16×26	1.66	430
150		16×26	1.26	520	18×26	0.45	520
220		13×26	0.83	610			

CASE SIZE OF AXIAL TYPE

D	6	8	10	13
d	0.6			



[NPA]

Case Size: D×L(mm)

u F	WV	6	10	16	25	35	50	63	100
		8	13	20	32	44	63	79	125
0.47							6×13	6×16	6×16
1.0							6×13	6×16	6×16
2.2							6×13	8×16	8×16
3.3							6×13	6×17 8×16	8×16
4.7				6×13	6×13	6×13	8×16	8×16	
10			6×13	6×13	6×13	8×16	8×16	10×26	
22			6×13	6×13	8×16	8×16	10×21	10×21	13×27
33		6×13	6×13	8×16	8×16	10×21	10×24	10×26	13×27
47		6×13	6×13	8×16	10×21	10×24	10×24	13×27	
68		8×16	8×16	10×21	10×21	10×24	10×24		
100		8×16	8×16	10×21	10×26	13×27	13×27		
220		10×21	10×21	10×26	13×27	13×32			
330		10×21	10×26	13×27					
470		10×26	13×37	13×32					
1000		13×32							