

NPA series Non-Polarized 無極性標準品

- 適用於極性反轉回路，例如：信號交連或HI-FI高級音響設備如喇叭等。
具容量誤差小，頻率響應高之特質。
- NPA series capacitors are suitable for crossover network for HI -FI equipment's etc.
- Have excellent frequency characteristic and small deviation of capacitance.



SPECIFICATIONS

No	Item	Performance Characteristics											
1	使用溫度範圍 Operating Temperature Range	-40 to +105°C											
2	定格電壓範圍 Rated Working Voltage Rang	6.3-250 v.DC											
3	靜電容量圍 Nominal Capacitance Range	0.47-1000 μ F											
4	靜電容量容許差 Capacitance Tolerance	±20%(at+20°C, 120Hz)											
5	漏泄電流 Leakage Current	$I \leq 0.03DC$ or $3(\mu A)$ after five minutes.											
6	損失角 Dissipation Factor($\tan \sigma$) (120Hz \ 20°C)	Working Voltage (V)	6.3	10	16	25	35	50	63	100	160	200	250
		$\tan \sigma$ max.	0.25	0.25	0.20	0.15	0.15	0.13	0.10	0.12	0.20	0.20	0.20
7	溫度特性 (at 120 Hz) Characteristics at low temperature (stability at 120Hz)	Working Voltage(V)	6.3	10	16	25	35	50	63	100	160	200	250
		Z-25°C/ +20°C	4	3	2	2	2	2	2	2	2	2	2
		Z-40°C/ +20°C	8	6	4	4	4	3	3	3	3	3	3
8	高溫負荷特性 High Temperature Loading	After 1000 hrs. application of DC rated working voltage at +105°C The capacitor shall meet the following limits; Post test requirements at +20°C											
		Leakage current	≤ the initial specified value										
		Capacitance change	≤ ±20% of initial measured value										
		Dissipation Factor ($\tan \sigma$)	≤ 150% of initial specified value										
9	高溫無負荷特性 Shelf Life	After storage for 500 hrs. at +105°C with no voltage applied. Post test requirements at +20°C same limits for high temperature loading.											

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Diagram of Dimensions

Unit(mm)

$\phi d \pm 0.02$
 PVC sleeve
 Alumini case
 Rubber
 $20min$
 $L \leq 16 \rightarrow \alpha = 1$
 $L > 16 \rightarrow \alpha = 2$
 $2.5max$
 $L + \alpha max$
 $\phi D \leq 10 \rightarrow \beta = 0.5$
 $\phi D > 10 \rightarrow \beta = 1.0$

Multiplier for Ripple Current vs .Temperature

Temperature°C	45	60	70	85	95	105
Multiplier	2.10	1.90	1.65	1.40	1.25	1.00

d ∅ (+0.5Max)	6.3	8	13	10	16	18
d ∅ (±0.05)	0.6			0.8		

Case size Table

ΦDxL(mm)

WV(SV) μ F	6.3 (8)	10 (13)	16 (20)	25 (32)	35 (44)	50 (63)	63 (79)	100 (125)	160 (200)	200 (250)	250 (300)
0.47						6.3x16		6.3x16	6.3x16	6.3x16	6.3x16
1.0						6.3x16		6.3x16	6.3x16	6.3x16	8x16
2.2						6.3x16		6.3x16	8x16	8x16	10x21
3.3						6.3x16	6.3x16	8x16	8x16	10x21	10x21
4.7				6.3x16	6.3x16	6.3x16	6.3x16	8x16	10x21	10x26	13x27
10			6.3x16	6.3x16	6.3x16	8x16	8x16	10x26	13x27	16x27	16x32
22		6.3x16	6.3x16	6.3x16	8x16	10x21	10x21	13x27	16x26	16x32	18x36
33	6.3x16	6.3x16	8x16	8x16	10x16	10x26	10x26	13x32	16x32	18x36	
47	6.3x16	6.3x16	10x21	8x16	10x16	13x27	13x27	16x36	18x36		
100	8x16	8x16	10x26	10x21	13x27	16x26	16x32	18x36			
220	10x21	10x21	13x27	10x26	13x27	16x32	18x36				
330	10x21	10x21	13x27	13x27	16x26	16x32	18x36				
470	10x26	10x26	13x32	16x26	16x32	18x36					
1000	13x32	16x32	18x36	18x42							