

NPM7 Series Non-Polarized Miniaturized 7mm height 85℃超小型品

1. 本體之高度縮短至 7mm,適用於輕薄小型化之電子產品。
Developed short body length to 7mm, for the demand of smaller and thinner electronic equipment.
4. 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。
NP series capacitors are suitable for crossover network for HI-FI equipment's and speakers, etc.
3. 具容量誤差小，頻率回應高之特質。
Have excellent frequency characteristic and small deviation of Capacitance.

Specifications

No	Item	Performance																					
1	使用溫度範圍 Operating Temperature Range	-40 to +85 ⁰ C																					
2	定格電壓範圍 Rated Working Voltage Range	6.3-50V.DC																					
3	靜電容量範圍 Capacitance Tolerance	0.1-220μF																					
4	靜電容量容許差 Capacitance Tolerance	±20%(at+20 ⁰ C,120Hz)																					
5	洩漏電流 Leakage Current	After 2 minutes application of rated voltage I≤0.05CV or 10μA minimum at 20 ⁰ C																					
6	損失角 Dissipation Factor(tan δ) (120Hz/+20℃)	<table><tr><td>Working Voltage (V)</td><td>6.3</td><td>10</td><td>16</td><td>25</td><td>35</td><td>50</td></tr><tr><td>tan δ max.</td><td>0.26</td><td>0.22</td><td>0.20</td><td>0.17</td><td>0.15</td><td>0.15</td></tr></table>	Working Voltage (V)	6.3	10	16	25	35	50	tan δ max.	0.26	0.22	0.20	0.17	0.15	0.15							
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7	溫度特性 (at 120 Hz) Characteristics at low temperature (Impedance ratio at 120Hz)	<table><tr><td>Working Voltage (V)</td><td>6.3</td><td>10</td><td>16</td><td>25</td><td>35</td><td>50</td></tr><tr><td>Z-25℃/+20℃</td><td>4</td><td>3</td><td>3</td><td>2</td><td>2</td><td>2</td></tr><tr><td>Z-40℃/+20℃</td><td>10</td><td>8</td><td>6</td><td>4</td><td>4</td><td>4</td></tr></table>	Working Voltage (V)	6.3	10	16	25	35	50	Z-25℃/+20℃	4	3	3	2	2	2	Z-40℃/+20℃	10	8	6	4	4	4
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Z-40℃/+20℃	10	8	6	4	4	4																	
8	高溫負荷特性 High Temperature Loading	After 1000hrs. application of DC rated working voltage at +85℃,with the polarity inverted every 250hrs,capacitors meet the characteristic of following requirements. <table><tr><td>Leakage current</td><td>≤ the Initial specified value</td></tr><tr><td>Capacitance change</td><td>≤±25% of initial measured value</td></tr><tr><td>Dissipation Factor(tan δ)</td><td>≤200% of initial specified value</td></tr></table>	Leakage current	≤ the Initial specified value	Capacitance change	≤±25% of initial measured value	Dissipation Factor(tan δ)	≤200% of initial specified value															
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9	高溫無負荷特性 Shelf Life	The following specification shall be satisfied when the capacitors are stored to 20℃ after exposing them for 1000hrs at+85℃without voltage applied, the capacitors meet the specified value for load life characteristic listed above.																					

Multiplier for ripple current 紋波電流補正係數

Frequency Coefficient 周波數係數

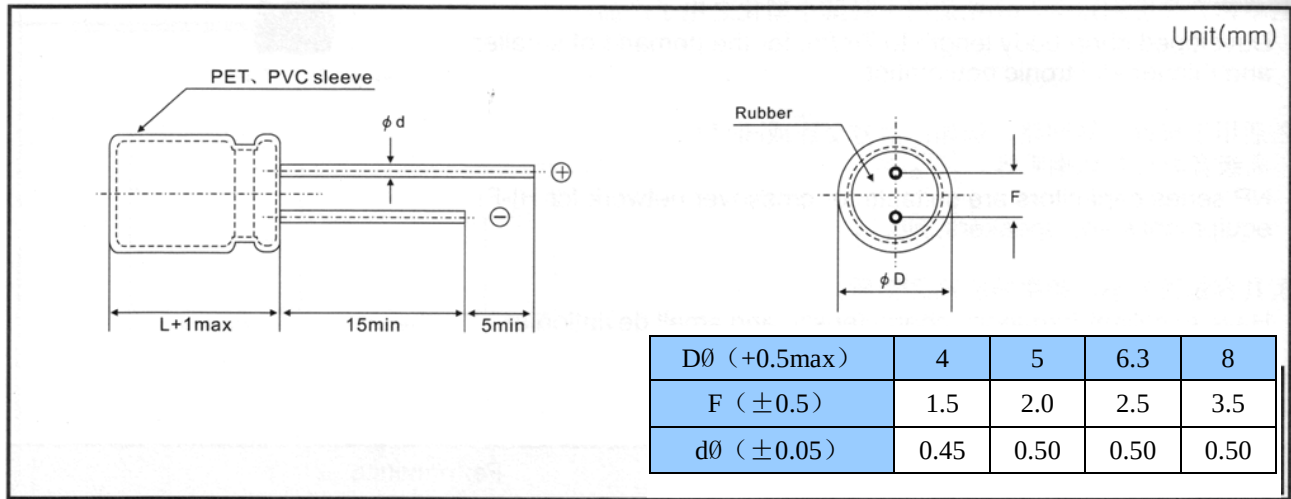
μF \ Frequency	60 (50) H z	120 H z	400 H z	1K H z	≥10K H z
0.1~47	0.80	1.00	1.20	1.30	1.50
100~220	0.80	1.00	1.10	1.15	1.20

Temperature Coefficient 周圍溫度係數

Coefficient \ temperature (℃)	85	70	≤50
coefficient	1.0	1.6	2.0

NPM7 Series

Diagram of Dimensions



尺寸一覽表

Case Size Table

ØD×L (mm)

W.V. (SV) μF	6.3 (8)		10 (13)		16 (20)		25 (32)		35 (44)		50 (63)	
0.1											4×7	1
0.22											4×7	2
0.33											4×7	3
0.47											4×7	5
0.68											4×7	8
1											4×7	10
2.2									4×7	10	5×7	14
3.3							4×7	15	5×7	16	5×7	19
4.7					4×7	15	5×7	20	5×7	20	6.3×7	26
6.8					5×7	20	6.3×7	25	6.3×7	30	8×7	33
10			4×7	20	5×7	25	6.3×7	35	6.3×7	35	8×7	44
15			5×7	25	6.3×7	30	6.3×7	40	8×7	45	8×7	50
22	5×7	30	5×7	35	6.3×7	45	6.3×7	50	8×7	60	8×7	65
33	5×7	40	6.3×7	45	6.3×7	60	8×7	70	8×7	75		
47	6.3×7	55	6.3×7	65	6.3×7	65	8×7	85				
100	8×7	90	8×7	100	8×7	120						
220	8×7	130										

額定紋波電流 Rated ripple current (mA) at 85°C, 120Hz