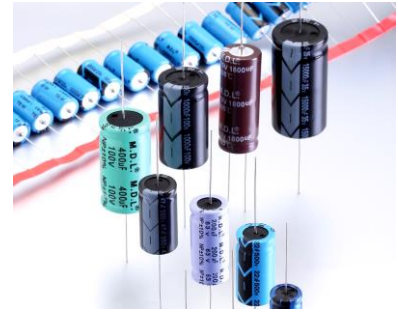


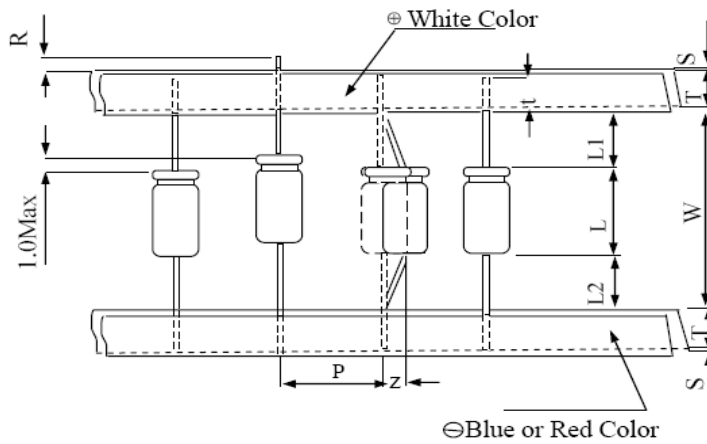
Taping Specification



AXIAL Type Series

Taping Specification

Fig.1



UNIT:mm

φD	W±1.5		P	L1-L2	Z	R	T	t	S
	L≤16	L > 16							
5	52	--	10	±1.5	1.2	2	6	3.2	0.8
6.3	52	63	10	±1.5	1.2	2	6	3.2	0.8
8	63	73	10	±1.5	1.2	2	6	3.2	0.8
10	63	73	15	±1.5	1.2	2	6	3.2	0.8
13	63	73	15	±1.5	1.2	2	6	3.2	0.8

備註:

- 貼帶
 - 外殼直徑在 5~13mm 可做貼品。
 - 除有特殊要求外,負極用有色(藍色或紅色)貼帶;正極用白色貼帶。
 - 在貼品的第一顆電容器之前與最後一顆電容器之後至少需 250mm 的導帶。
 - 貼品尺寸見圖 1。
- 包裝
 - 貼品捲盤及捲軸規格尺寸見圖 2。
 - 牛皮紙用於電容器層與層之間隔離並起到保護作用。
 - 貼品捲繞後,將用一塊紙板封裝好。

Notes:

- Taping
 - Case diameters 5mm to 13mm can be supplied taped & reeled .
 - Unless otherwise specified,the cathode tape shall be red or blue and the anode tape shall be white.
 - A minimum 300mm leader tape shall be provided before the first and after the last capacitor on reel.
 - Dimensions are shown in Fig.1.
- Packing
 - Taped capacitors shall be wound on a reel shown in Fig.2.
 - Kraft paper shall be wound between layers of capacitors for capacitor protection .
 - After winding the taped capacitors on the reel,a single sided corrugated cardboard strip shall be wound over the capacitors (on wrap).

Packaging

Fig.2

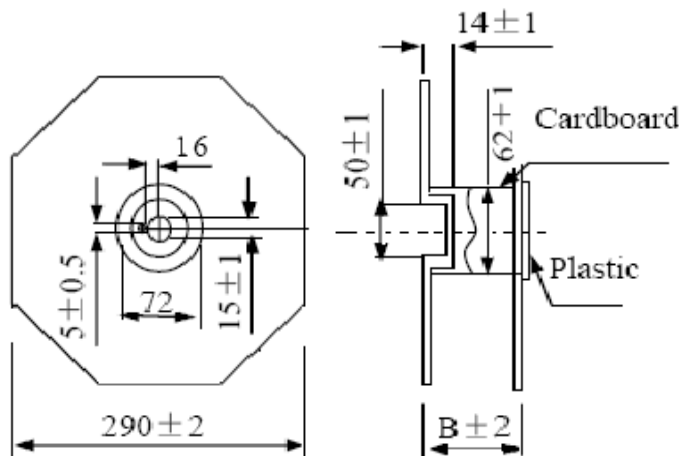
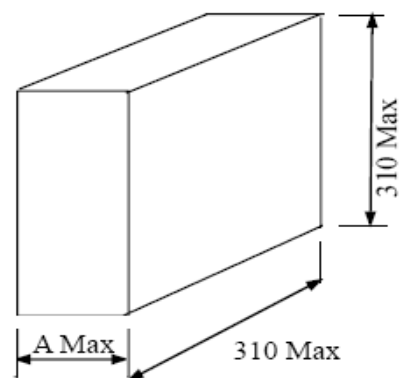


Fig.3



Quantity of packaging

UNIT:pcs

φD	5φ	6φ	6.3φ	8φ	10φ	13φ
Q'ty(PCS)	1200	1000	1000	750	400	250

Box dimension

UNIT:mm

W	52	63	73
B	70	82	92
A	85	97	107

TE Series AXIAL Type 85°C

FEATURES

- .85°C,2,000 hours assured
- . Voltage range of 6.3 ~ 450V
- .Wide operating temperature range,from -40°C~ +85°C

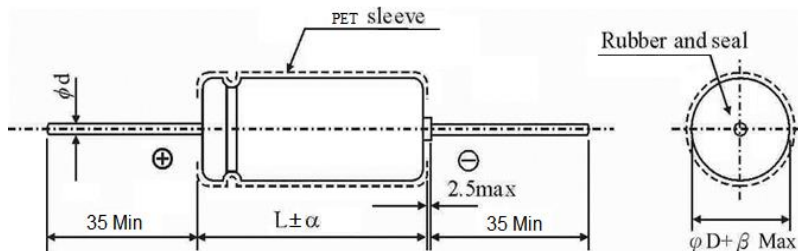


SPECIFICATION

Item	Characteristic																																																																													
Operation Temp 使用溫度範圍	-40°C ~ +85°C																																																																													
Capacitance Tolerance 容量範圍	±10%(K), ±20%(M) (at 20°C,120Hz)																																																																													
Rated Voltage 額定電壓	6.3 ~ 100VDC	160 ~ 450VDC																																																																												
(20°C) Leakage Current 洩漏電流	I ≦ 0.02CV or 3 (u A) Whichever is greater 選其最大值 (after 2 minutes applying the rated DC working Voltage at 20 °C)(在 20°C施加直流額定電壓 2 分鐘以後)	I ≦ 0.03CV+15 (u A) for CV ≦ 1000, I ≦ 0.02CV+25 (u A) for CV>1000 (after 5 minutes applying the rated DC working Voltage at 20 °C)(在 20°C施加直流額定電壓 5 分鐘以後)																																																																												
	Where: I=Leakage Current (u A) , C=rated Capacitance (μ F) , V= working Voltage (V)																																																																													
(at 20°C,120Hz) Dissipation Factor (tan δ) 損失角	<table border="1"> <tr> <td>W.V</td> <td>6.3</td> <td>10</td> <td>16</td> <td>25</td> <td>35</td> <td>50</td> <td>63</td> <td>100</td> <td>160</td> <td>200</td> <td>250</td> <td>350</td> <td>400</td> <td>450</td> </tr> <tr> <td>tan δ</td> <td>0.23</td> <td>0.20</td> <td>0.17</td> <td>0.15</td> <td>0.12</td> <td>0.10</td> <td>0.09</td> <td>0.08</td> <td>0.15</td> <td>0.15</td> <td>0.20</td> <td>0.20</td> <td>0.24</td> <td>0.24</td> </tr> </table> <p>Add 0.02 per 1000μ F for more than 1000μ F (當靜電容量超過 1000μF 時，容量每增加 1000μF，損失角正切值就增加 0.02)</p>		W.V	6.3	10	16	25	35	50	63	100	160	200	250	350	400	450	tan δ	0.23	0.20	0.17	0.15	0.12	0.10	0.09	0.08	0.15	0.15	0.20	0.20	0.24	0.24																																														
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(20°C) Surge Voltage 突破電壓	<table border="1"> <tr> <td>W.V</td> <td>6.3</td> <td>10</td> <td>16</td> <td>25</td> <td>35</td> <td>50</td> <td>63</td> <td>100</td> <td>160</td> <td>200</td> <td>250</td> <td>350</td> <td>400</td> <td>450</td> </tr> <tr> <td>S.V</td> <td>8</td> <td>13</td> <td>20</td> <td>32</td> <td>44</td> <td>63</td> <td>79</td> <td>125</td> <td>200</td> <td>250</td> <td>300</td> <td>400</td> <td>450</td> <td>500</td> </tr> </table>		W.V	6.3	10	16	25	35	50	63	100	160	200	250	350	400	450	S.V	8	13	20	32	44	63	79	125	200	250	300	400	450	500																																														
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Low Temperature Stability 低溫溫度特性	Impedance ratio at 120 HZ 阻抗測試頻率為 120Hz																																																																													
	<table border="1"> <tr> <td>Rated Voltage (V)</td> <td>6.3</td> <td>10</td> <td>16</td> <td>25</td> <td>35</td> <td>50</td> <td>63</td> <td>100</td> <td>160</td> <td>200</td> <td>250</td> <td>350</td> <td>400</td> <td>450</td> </tr> <tr> <td>Z(-25°C) /+20°C</td> <td>§ D<16</td> <td>6</td> <td>4</td> <td>3</td> <td>3</td> <td>2</td> <td>2</td> <td>2</td> <td>2</td> <td>3</td> <td>6</td> <td>8</td> <td>12</td> <td>14</td> <td>16</td> </tr> <tr> <td></td> <td>§ D≥16</td> <td>8</td> <td>6</td> <td>4</td> <td>4</td> <td>3</td> <td>3</td> <td>3</td> <td>3</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Z(-40°C) /+20°C</td> <td>§ D<16</td> <td>10</td> <td>8</td> <td>6</td> <td>6</td> <td>4</td> <td>3</td> <td>3</td> <td>3</td> <td>4</td> <td>8</td> <td>10</td> <td>-</td> <td>-</td> <td>-</td> </tr> <tr> <td></td> <td>§ D≥16</td> <td>18</td> <td>16</td> <td>12</td> <td>10</td> <td>8</td> <td>8</td> <td>6</td> <td>6</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </table>		Rated Voltage (V)	6.3	10	16	25	35	50	63	100	160	200	250	350	400	450	Z(-25°C) /+20°C	§ D<16	6	4	3	3	2	2	2	2	3	6	8	12	14	16		§ D≥16	8	6	4	4	3	3	3	3						Z(-40°C) /+20°C	§ D<16	10	8	6	6	4	3	3	3	4	8	10	-	-	-		§ D≥16	18	16	12	10	8	8	6	6				
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	§ D≥16	18	16	12	10	8	8	6	6																																																																					
Load Life Test 高溫負荷壽命	<p>After 2,000 hours application of rated voltage at 85°C ,capacitors meet the characteristics requirements listed as below .在額定電壓 85°C 條件下，經過 2,000 小時後，電容特性要求如下表：</p> <table border="1"> <tr> <td>Capacitance Change</td> <td>Within ±20% of initial value</td> </tr> <tr> <td>Dissipation Factor</td> <td>Less than 200% of specified value</td> </tr> <tr> <td>Leakage Current</td> <td>Within specified value</td> </tr> </table>		Capacitance Change	Within ±20% of initial value	Dissipation Factor	Less than 200% of specified value	Leakage Current	Within specified value																																																																						
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Shelf Life Test 無負荷壽命	<p>After leaving capacitors under no load at 85°C for 1,000 hours and applying Voltage they meet the specified value for load life characteristics listed above .將電容器置於溫度為 85°C、無電壓負荷狀況下，經過 1,000 小時後，再加電壓於電容器，其所測值標準應與有負荷時測試值相同。</p>																																																																													
Frequency Coefficient of Allowable Ripple Current 允許紋波電流的頻率係數	<table border="1"> <tr> <td rowspan="2">Cap.(μ F)</td> <td colspan="5">Freq.(Hz)</td> </tr> <tr> <td>60</td> <td>120</td> <td>500</td> <td>1K</td> <td>10K up</td> </tr> <tr> <td>Under 100</td> <td>0.70</td> <td>1.00</td> <td>1.30</td> <td>1.40</td> <td>1.50</td> </tr> <tr> <td>100 to 1000</td> <td>0.75</td> <td>1.00</td> <td>1.20</td> <td>1.30</td> <td>1.35</td> </tr> <tr> <td>1000 up above</td> <td>0.80</td> <td>1.00</td> <td>1.10</td> <td>1.12</td> <td>1.15</td> </tr> </table>		Cap.(μ F)	Freq.(Hz)					60	120	500	1K	10K up	Under 100	0.70	1.00	1.30	1.40	1.50	100 to 1000	0.75	1.00	1.20	1.30	1.35	1000 up above	0.80	1.00	1.10	1.12	1.15																																															
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Allowable Ripple Current Vs; Ambient Temperature 環境溫度對比允許紋波電流的比值	<table border="1"> <tr> <td>Temperature(°C)</td> <td>Under 50</td> <td>70</td> <td>85</td> </tr> <tr> <td>Multiplier</td> <td>1.78</td> <td>1.40</td> <td>1.00</td> </tr> </table>		Temperature(°C)	Under 50	70	85	Multiplier	1.78	1.40	1.00																																																																				
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TE AXIAL Type 85°C
Series

φ D	5	6.3	8	10	13	16	18	22	25
φ d	0.6	0.6	0.6	0.6	0.6	0.8	0.8	0.8	0.8
α	1.5	1.5	1.5	2.0	2.0	2.0	2.0	2.0	2.0
β	0.5	0.5	0.5	1.0	1.0	1.0	1.0	1.0	1.0



CASE SIZE & Max RIPPLE CURRENT

Dimension Diameter (φ D)×Length(L) mm

尺寸：直徑(φ D)×長度 L (mm)

Ripple Current: m A/rms at 85°C,120Hz

紋波電流(m A)：溫度 85°C,測試頻率 120Hz

μ F \ WV	6.3V		10V		16V		25V		35V		50V		63V		100V	
	SIZE	R.C	SIZE	R.C	SIZE	R.C	SIZE	R.C	SIZE	R.C	SIZE	R.C	SIZE	R.C	SIZE	R.C
0.10											5x12	1.5	5x12	3	5x12	3
0.22											5x12	3.5	5x12	4.5	5x12	5
0.33											5x12	5	5x12	7.5	5x12	8
0.47											5x12	6	5x12	9	5x12	9
1.0											5x12	10	5x12	15	5x12	15
2.2											5x12	20	5x12	30	5x12	30
3.3											5x12	30	5x12	36	5x12	40
4.7											5x12	42	5x12	44	6.3x13	41
10							5x12	40	5x12	55	5x12	50	6.3x13	55	6.3x13	72
22					5x12	71	6.3x13	76	6.3x13	70	6.3x13	85	6.3x13	109	8x16	133
33					5x12	85	6.3x13	80	6.3x13	115	6.3x13	126	8x13	154	10x17	190
47	5x12	87	5x12	94	6.3x13	88	6.3x13	100	6.3x13	138	8x13	174	8x16	214	10x21	237
100	6.3x13	121	6.3x13	145	6.3x13	160	8x13	215	8x16	232	10x17	296	10x17	326	13x22	377
220	6.3x13	215	8x13	231	8x13	298	8x16	319	10x17	401	10x21	459	13x22	527	16x28	625
330	8x16	305	8x16	327	8x16	365	10x17	454	10x21	514	13x22	613	13x22	675	16x33	793
470	8x16	364	8x16	390	8x16	460	10x21	524	13x22	613	13x22	731	13x27	780	16x36	942
1000	10x17	662	10x17	671	10x21	775	13x22	873	13x27	955	16x33	1111	16x40	1249	22x40	1452
2200	13x22	929	13x22	1051	13x27	1125	16x28	1344	16x33	1421	18x40	1699	22x40	1744	25x43	2430
3300	13x27	1150	13x27	1288	16x28	1454	16x33	1611	18x40	1640	22x40	2027	25x43	2309		
4700	13x27	1354	16x28	1552	16x33	1650	18x40	1881	22x40	2280	25x41	2347	25x43	2710		
6800	16x28	1762	16x33	1930	16x40	2040	18x40	2170	22x40	2470	25x52	2650				
10000	16x40	2062	18x40	2122	18x40	2503	22x40	2893	25x41	3180						

μ F \ WV	160V		200V		250V		350V		400V		450V	
	SIZE	R.C	SIZE	R.C	SIZE	R.C	SIZE	R.C	SIZE	R.C	SIZE	R.C
1.0	6.3x13	7	6.3x13	9	6.3x13	12	8x16	13	8x16	14	8x16	15
2.2	6.3x13	15	8x13	16	8x16	17	10x17	19	10x17	21	10x21	23
3.3	8x16	21	8x16	26	10x17	31	10x17	33	10x17	34	10x21	36
4.7	8x16	31	10x17	33	10x17	38	10x21	44	10x21	45	13x22	46
10	10x17	60	10x21	66	10x21	72	13x22	72	13x22	80	13x27	82
22	10x21	121	13x22	121	13x27	126	13x27	132	16x33	137	16x36	143
33	13x22	154	13x27	167	16x28	178	16x33	186	16x40	192	16x40	201
47	13x27	198	16x33	214	16x33	241	16x40	253	18x40	339	18x40	339
100	16x33	345	16x33	368	16x40	391	22x40	402	22x43	424	22x43	448
220	18x40	586	22x40	609	22x40	632						
330	22x40	632										