

FEATURES

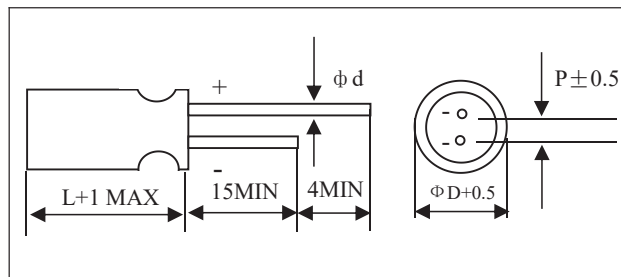
- 1、Superminiue,5mmL,high temperature, suit for use in electronic circuit of high density assembly of videocorder ,remote controller, VCD etc.

SPECIFICATIONS

Item	Performance Characteristics																															
Operating Temperature Range	-40 to +105℃																															
Rated Working voltage Range	4 to 50V																															
Nominal Capacitance Range	0.1 to 220(uF)																															
Capacitance Tolerance	±20%（120Hz, +20℃）																															
Leakage Current	I≤0.01CV or3(uA) Whichever is greater measured after 2minutes application of rated working voltage at +20℃																															
Dissipation Factor tan δ (120Hz+20℃)	<table><tr><td>Working voltage(V)</td><td>4</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>0.35</td><td>0.28</td><td>0.24</td><td>0.20</td><td>0.16</td><td>0.14</td><td>0.12</td></tr></table>								Working voltage(V)	4	6.3	10	16	25	35	50	tan δ (max.)	0.35	0.28	0.24	0.20	0.16	0.14	0.12								
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Low Temperature Characteristics	Impedance ratio max. at 120Hz <table><tr><td>Working voltage(V)</td><td>4</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℃/Z+20℃</td><td>6</td><td>3</td><td>3</td><td>2</td><td>2</td><td>2</td><td>2</td></tr><tr><td>Z-40℃/Z+20℃</td><td>12</td><td>8</td><td>5</td><td>4</td><td>3</td><td>3</td><td>3</td></tr></table>								Working voltage(V)	4	6.3	10	16	25	35	50	Z-25℃/Z+20℃	6	3	3	2	2	2	2	Z-40℃/Z+20℃	12	8	5	4	3	3	3
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Multiplier for Ripple Current vs. Frequency	<table><tr><td colspan="2">CAP(uF)Hz</td><td>60(50)</td><td>120</td><td>1K</td><td>10K≤</td></tr><tr><td rowspan="2">Multiplier</td><td>0.1~47</td><td>0.8</td><td>1</td><td>1.30</td><td>1.50</td></tr><tr><td>100</td><td>0.8</td><td>1</td><td>1.15</td><td>1.20</td></tr></table>								CAP(uF)Hz		60(50)	120	1K	10K≤	Multiplier	0.1~47	0.8	1	1.30	1.50	100	0.8	1	1.15	1.20							
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Multiplier for Ripple Current vs. Temperature	<table><tr><td>Temperature℃</td><td>60</td><td>85</td><td>105</td></tr><tr><td>Multiplier</td><td>1.90</td><td>1.4</td><td>1.00</td></tr></table>								Temperature℃	60	85	105	Multiplier	1.90	1.4	1.00																
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High temperature Loading	Test conditions Duration :2000 hours Ambient temperature :+105℃ Applied voltage :Rated DC working voltage Post test requirements at +20℃ Leakage current : ≤ Initial specified value Capacitance change : ≤±20% of initial measured value(4V:≤±30%) tan δ : ≤200% of initial specified value																															
Shelf life	Test conditions Duration :1000 hours Ambient temperature :+105℃ Applied voltage : (None) Post test requirements at+20℃ Leakage current :≤Initial specified value Capacitance change :≤±20% of initial measured value(4V:<±30%) Tan δ :≤200% of initial specified value																															
Others	JIS C-5141 JIS C-5102																															

CASE SIZE TABLE

Unit:mm



D φ	3	4	5	6.3
P	1.0	1.5	2.0	2.5
d φ (±0.05)	0.40	0.45		

DIMENSIONS

ΦD×L(mm)

WV(SV)		4V(5)		6.3V(8)		10V(13)		16V(20)		25V(32)	
Cap.(uF)	Code	0G		0J		1A		1C		1E	
4.7	475									4×5	13
10	106							4×5	18	4×5	23
22	226	4×5	22	4×5	20	5×5	27	5×5	30	6.3×5	38
33	336	5×5	30	5×5	30	5×5	35	6.3×5	40	6.3×5	48
47	476	5×5	36	5×5	36	6.3×5	46	6.3×5	50	6.3×5	62
100	107	6.3×5	60	6.3×5	60	6.3×5	65	6.3×5	72		
220	227	6.3×5	64	6.3×5	68	6.3×5	72			Case Size	Allowable ripple

Allowable Ripple (mA rms)at 105℃ 120Hz

ΦD×L(mm)

WV(SV)		35V(44)		50V(63)	
Cap.(uF)	Code	1V		1H	
0.1	104			4×5	1.0
0.22	224			4×5	2.6
0.33	334			4×5	3.2
0.47	474			4×5	3.8
1	105			4×5	6.2
2.2	225	4×5	7	4×5	11
3.3	335	4×5	11	4×5	14
4.7	475	4×5	15	5×5	19
10	106	5×5	25	6.3×5	30
22	226	6.3×5	48	6.3×5	58
33	336	6.3×5	52	Case Size	Allowable ripple

Allowable Ripple (mA rms)at 105℃ 120Hz