

T7 series

NEW

+105°C,7mmL,Low Impedance(低阻抗品)

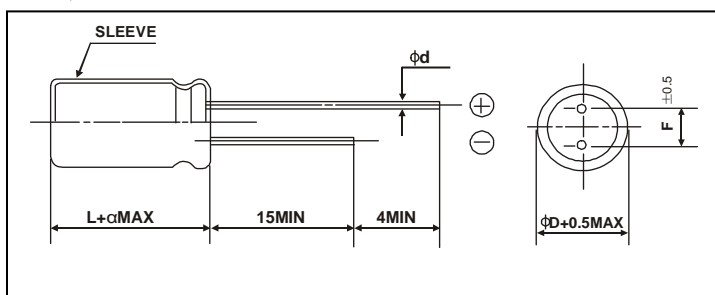
◆ FEATURES

- Low impedance,with 7mm height.
- Wide operating temperature range

◆ SPECIFICATIONS

Items	Characteristics																					
Category Temperature Range	-40~+105°C																					
Rated Voltage Range	6.3~50V.DC																					
Nominal Capacitance Range	0.1~470μF																					
Capacitance Tolerance	±20%(120Hz,+20°C)																					
Leakage Current(MAX)	I=0.01CV or 3(μA) after 2 minutes whichever is greater measured with rated working voltage at 20°C																					
Dissipation Factor(MAX) Tanδ (20°C,120Hz)	<table border="1"> <thead> <tr> <th>Rated Voltage(V)</th> <th>6.3</th> <th>10</th> <th>16</th> <th>25</th> <th>35</th> <th>50</th> </tr> </thead> <tbody> <tr> <td>Tanδ</td> <td>0.18</td> <td>0.26</td> <td>0.14</td> <td>0.12</td> <td>0.10</td> <td>0.08</td> </tr> </tbody> </table>	Rated Voltage(V)	6.3	10	16	25	35	50	Tanδ	0.18	0.26	0.14	0.12	0.10	0.08							
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Load Life	After applying rated voltage with max ripple current for 1000 hrs at 105°C,the capacitors shall meet the following requirements <table border="1"> <tbody> <tr> <td>Capacitance Change</td> <td>Within ±20% of the initial value</td> </tr> <tr> <td>Dissipation Factor</td> <td>Not more than 200% of the specified value</td> </tr> <tr> <td>Leakage Current</td> <td>Not more than the specified value</td> </tr> </tbody> </table>	Capacitance Change	Within ±20% of the initial value	Dissipation Factor	Not more than 200% of the specified value	Leakage Current	Not more than the specified value															
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Shelf Life	After Leaving capacitors under no load at 105°C for 1000hrs,they meet the characteristic requirements listed at right <table border="1"> <tbody> <tr> <td>Capacitance change</td> <td>Within ±20% of the initial value</td> </tr> <tr> <td>Tanδ</td> <td>≤200% of initial specified value</td> </tr> <tr> <td>Leakage current</td> <td>≤200% of initial specified value</td> </tr> </tbody> </table>	Capacitance change	Within ±20% of the initial value	Tanδ	≤200% of initial specified value	Leakage current	≤200% of initial specified value															
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Low Temperature Stability Impedance Rate(MAX)	<table border="1"> <thead> <tr> <th>Rated Voltage(V)</th> <th>6.3</th> <th>10</th> <th>16</th> <th>25</th> <th>35</th> <th>50</th> </tr> </thead> <tbody> <tr> <td>Z-25°C/Z+20°C</td> <td>2</td> <td>2</td> <td>2</td> <td>2</td> <td>2</td> <td>2</td> </tr> <tr> <td>Z-40°C/Z+20°C</td> <td>3</td> <td>3</td> <td>3</td> <td>3</td> <td>3</td> <td>3</td> </tr> </tbody> </table>	Rated Voltage(V)	6.3	10	16	25	35	50	Z-25°C/Z+20°C	2	2	2	2	2	2	Z-40°C/Z+20°C	3	3	3	3	3	3
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Z-40°C/Z+20°C	3	3	3	3	3	3																
Other	JISC-5141 EIAJ RC-2372																					

◆ CASE SIZE TABLE



ΦD	4	5	6.3	8
F	1.5	2.0	2.5	3.5
Φd	0.45	0.5		
α	1.0			

◆ RIPPLE CURRENT MULTIPLIER

Cap(μF)	Frequency(Hz)			
	120	1K	10K	100k
≤180	0.40	0.75	0.90	1.00
≥220	0.50	0.85	0.94	1.00

◆ STANDARD RATINGS

NEW

size:ΦD×L(mm)

Voltage(code)		6.3V(0J)			10V(1A)			16V(1C)		
Cap(μF)	Item Code	Size	Ripple Current	Impedance	Size	Ripple Current	Impedance	Size	Ripple Current	Impedance
10	106							4×7	70	3.3
22	226	4×7	60	3.5	4×7	70	3.3	4×7	110	1.7
33	336	4×7	110	1.7	4×7	110	1.7	4×7 5×7	130 160	1.5 0.8
47	476	4×7	110	1.7	4×7	160	0.8	5×7	160	0.8
100	107	5×7	160	0.8	5×7	200	0.5	5×7 6.3×7	180 200	0.7 0.5
220	227	6.3×7	200	0.5	6.3×7	230	0.45	6.3×7	275	0.33
330	337	8×7	255	0.4	8×7	285	0.33	8×9	305	0.22
470	477	8×9	285	0.35	8×9	315	0.28	8×9	365	0.20

◆ STANDARD RATINGS

Voltage(code)		25V(1E)			35V(1V)			50V(1H)		
Cap(μF)	Item Code	Size	Ripple Current	Impedance	Size	Ripple Current	Impedance	Size	Ripple Current	Impedance
10	106	4×7	70	3.3	5×7	110	1.7	5×7	130	1.5
22	226	4×7 5×7	85 110	2.6 1.7	5×7	160	0.8	6.3×7	240	0.7
33	336	5×7	160	0.8	6.3×7	200	0.5	6.3×7	275	0.45
47	476	5×7 6.3×7	185 230	0.7 0.5	5×7 6.3×7	245 280	0.45 0.42	8×7	340	0.39
100	107	6.3×7 8×7	205 260	0.6 0.5	6.3×7 8×7	295 360	0.4 0.3	8×9	430	0.26
220	227	8×9	310	0.3						

Maximum Allowable Ripple Current(mA rms) at 105°C 100KHz
Maximum Impedance(Ω) at 20°C 100KHZ