

FEATURES

- 1、Extremely low and stable leakage current characteristics
- 2、Close capacitance tolerance $\pm 20\%$ ($\pm 10\%$)

SPECIFICATIONS

Item	Performance Characteristics																																				
Operating Temperature Range	-40 to +105℃																																				
Rated Working voltage Range	6.3 to 50V																																				
Nominal Capacitance Range	0.1 to 220(uF)																																				
Capacitance Tolerance	± 20%（120Hz, +20℃）																																				
Leakage Current	I≤0.002CV or 0.4(uA) Whichever is greater measured after 2 minutes of rated working voltage at +20℃																																				
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>0.24</td><td>0.20</td><td>0.16</td><td>0.14</td><td>0.12</td><td>0.10</td></tr></table>							Working voltage(V)	6.3	10	16	25	35	50	tan δ (max.)	0.24	0.20	0.16	0.14	0.12	0.10																
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Low Temperature Characteristics	Impedance ratio max. 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℃/Z+20℃</td><td>4</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>8</td><td>6</td><td>4</td><td>4</td><td>3</td><td>3</td></tr></table>							Working voltage(V)	6.3	10	16	25	35	50	Z-25℃/Z+20℃	4	3	2	2	2	2	Z-40℃/Z+20℃	8	6	4	4	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>400</td><td>1K</td><td>10K</td><td>50K-100K</td></tr><tr><td rowspan="3">Multiplier</td><td>CAP≤10</td><td>0.8</td><td>1</td><td>1.30</td><td>1.45</td><td>1.65</td><td>1.70</td></tr><tr><td>10<CAP≤100</td><td>0.8</td><td>1</td><td>1.23</td><td>1.36</td><td>1.48</td><td>1.53</td></tr><tr><td>100<CAP≤1000</td><td>0.8</td><td>1</td><td>1.16</td><td>1.25</td><td>1.35</td><td>1.38</td></tr></table>							CAP(uF)\Hz		60(50)	120	400	1K	10K	50K-100K	Multiplier	CAP≤10	0.8	1	1.30	1.45	1.65	1.70	10<CAP≤100	0.8	1	1.23	1.36	1.48	1.53	100<CAP≤1000	0.8	1	1.16	1.25	1.35	1.38
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Multiplier for Ripple Current vs. Temperature	<table><tr><td>Temperature℃</td><td>45</td><td>60</td><td>70</td><td>85</td><td>105</td></tr><tr><td>Multiplier</td><td>2.10</td><td>1.90</td><td>1.65</td><td>1.4</td><td>1.00</td></tr></table>							Temperature℃	45	60	70	85	105	Multiplier	2.10	1.90	1.65	1.4	1.00																		
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High temperature Loading	Test conditions Duration :2000 hours Ambient temperature :+105℃ Applied voltage :ated DC working voltage Post test requirements at +20℃ Leakage current : ≤ Initial specified value Capacitance change : ≤ ±20% of initial measured 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 tan δ : ≤200% of initial specified value Pre—treatment for measurements Measurements shall be conducted after application of DC working Voltage for 30 minutes																																				
Others	JIS C-5141 JIS C-5102																																				