

HTA 系列 Series

特点 Features

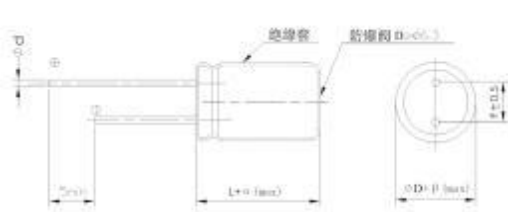
- 钛金属电容器, 100KHz低阻抗, 105°C 2000小时。
Titanium capacitor, Low impedance at 100KHz, Load life: 105°C 2000hours.
- 符合RoHS标准。Adapted to the RoHS directive.



主要技术性能 Specifications

项目 Items	特性 Characteristics												
使用温度范围 Operating Temperature Range	-40~+105°C												
额定电压范围 Rated Voltage Range	6.3~35V												
标称电容量范围 Nominal Capacitance Range	220~2200μF												
标称电容量允许偏差 Nominal Capacitance Tolerance	±20% (120Hz, +20°C)												
漏电流 Leakage Current	$I \leq 0.01CV$ or $3(\mu A)$ 2分钟(at 20°C, after 2 minutes) 取较大者(whichever is greater)												
损耗角正切值(tgδ) Dissipation Factor (+20°C, 120Hz)	<table border="1"> <tr> <td>U_g (V)</td> <td>6.3</td> <td>10</td> <td>16</td> <td>25</td> <td>35</td> </tr> <tr> <td>tgδ</td> <td>0.14</td> <td>0.14</td> <td>0.12</td> <td>0.10</td> <td>0.08</td> </tr> </table> <p>容量大于1000μF者, 每增加1000μF, 其损耗角正切值增加0.02 When nominal capacitance exceeds 1000μF, add 0.02 to the value above for each 1000μF increase</p>	U_g (V)	6.3	10	16	25	35	tgδ	0.14	0.14	0.12	0.10	0.08
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温度特性 Temperature Characteristics (Impedance ratio at 120Hz)	<table border="1"> <tr> <td>U_g (V)</td> <td>6.3</td> <td>10</td> <td>16</td> <td>25</td> <td>35</td> </tr> <tr> <td>Z-40°C / Z+20°C</td> <td>8</td> <td>6</td> <td>6</td> <td>4</td> <td>3</td> </tr> </table>	U_g (V)	6.3	10	16	25	35	Z-40°C / Z+20°C	8	6	6	4	3
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Z-40°C / Z+20°C	8	6	6	4	3								
耐久性 Load Life	<p>+105°C 施加含额定纹波电流的额定电压2000小时, 恢复16小时后: After applying rated voltage with specified ripple current for 2000 hours at +105°C and then resumed for 16 hours: 电容量变化率 Capacitance change : ±25%初始测量值以内 ±25% of the initial measured value 漏电流 Leakage current : ≤初始规定值 ≤Initial specified value 损耗角正切值 Dissipation factor : ≤2倍初始规定值 ≤2 times of the initial specified value</p>												
高温贮存 Shelf Life	<p>+105°C, 1000小时贮存后, 恢复16小时后: After storage for 1000 hours at +105°C and then resumed for 16 hours: 电容量变化率 Capacitance change : ±25%初始测量值以内 ±25% of the initial measured value 漏电流 Leakage current : ≤2倍初始规定值 ≤2 times of the initial specified value 损耗角正切值 Dissipation factor : ≤2倍初始规定值 ≤2 times of the initial specified value</p>												

外形图及尺寸表 Case Size Table



单位 Unit: mm

	6.3	8	10
ØD	6.3	8	10
F	2.5	3.5	5.0
d	0.5	0.5、0.6	0.6
α(max)	1.5		
β(max)	0.5		

频率修正系数 Frequency Coefficient

CAP(μF)	Freq.(Hz)			
	120	1K	10K	100K
220~2200	0.50	0.80	0.90	1.00

尺寸 Dimensions

CAP(μF)	WV	6.3V(0J)			10V(1A)			16V(1C)		
		Size	ESR	Ripple	Size	ESR	Ripple	Size	ESR	Ripple
220	221							6.3 × 9	0.095	558
270	271							6.3 × 9	0.092	561
470	471				6.3 × 9	0.065	640	6.3 × 11	0.056	920
560	561	6.3 × 9	0.06	665	6.3 × 9	0.06	665	6.3 × 11	0.054	925
680	681	6.3 × 9	0.058	670	6.3 × 11	0.05	880	8 × 9	0.049	1285
1000	102	6.3 × 11	0.05	895	8 × 9	0.045	1005	8 × 14	0.030	1545
2200	222	10 × 12.5	0.035	1800	10 × 12.5	0.033	1805	10 × 16	0.024	1905

CAP(μF)	WV	25V(1E)			35V(1V)		
		Size	ESR	Ripple	Size	ESR	Ripple
220	221	6.3 × 9	0.061	885	8 × 9	0.055	915
270	271	6.3 × 11	0.059	971	8 × 11.5	0.048	1052
330	331	8 × 9	0.056	980	8 × 11.5	0.042	1056
470	471	8 × 11.5	0.048	1185	10 × 12.5	0.029	1757
560	561	10 × 12.5	0.030	1775	10 × 12.5	0.027	1773
680	681	10 × 12.5	0.030	1780			

Size φD×L(mm)

Maximum Allowable Ripple Current (mA rms) at 105°C 100KHz

Maximum ESR (Ω) at 20°C 100KHz