

TA 系列 Series

特点 Features

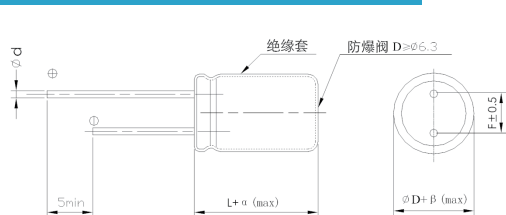
- 钛金属电容器, 100KHz低阻抗, 105°C 2000小时。
Titanium capacitor, Low impedance at 100KHz, Load life: 105°C 2000hours.
- 符合RoHS标准。Adapted to the RoHS directive.



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_R (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>	U_R (V)	6.3	10	16	25	35	tgδ	0.14	0.14	0.12	0.10	0.08
	U_R (V)	6.3	10	16	25	35							
tgδ	0.14	0.14	0.12	0.10	0.08								
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													
温度特性 Temperature Characteristics (Impedance ratio at 120Hz)	<table border="1"> <tr> <td>U_R (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_R (V)	6.3	10	16	25	35	Z-40°C / Z+20°C	8	6	6	4	3
	U_R (V)	6.3	10	16	25	35							
Z-40°C / Z+20°C	8	6	6	4	3								
耐久性 Load Life	+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												
高温贮存 Shelf Life	+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												

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

Freq.(Hz)	CAP(μF)			
	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

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