



鋁電解電容器

Aluminum Electrolytic Capacitor

STL Series 小尺寸铝电解电容器长寿命品

Small Size And Long Life Aluminum Electrolytic Capacitor of Radial Lead Type



- 寿命: +105 °C 3000 ~5000 小时 Life time: +105 °C 3000 ~5000Hrs
- 超小型. 高度为 5mm~9mm Miniature size •5mm~9mm height
- 符合 RoHS 指令 RoHS compliance

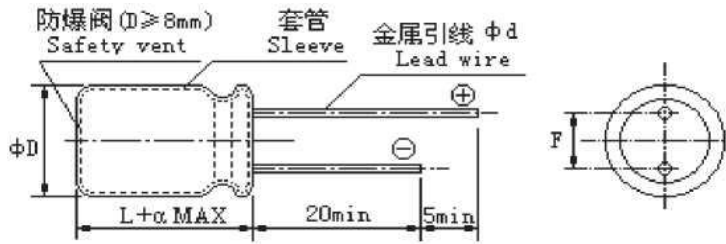


主要技术性能 Specifications

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	6.3~50V DC						
标称电容量允许偏差 Capacitance Tolerance	±20% (120Hz, 20°C)						
漏电流(20°C) Leakage Current	$I \leq 0.01CV (\mu A)$ 或 $3 \mu A$ 取较大者, (施加额定电压 2 分钟后) $I \leq 0.01CV (\mu A)$ or $3 \mu A$ Whichever is greater (After 2 minutes application of rated voltage) I= Leakage Current C=Capacitance V=Rated Voltage						
损耗角正切值 Dissipation Factor (120Hz 20°C)	WV	6.3	10	16	25	35	50
	tg δ	0.40	0.35	0.30	0.25	0.20	0.20
温度特性 (120Hz) Temperature Characteristics	WV	6.3	10	16	25	35	50
Impedance Ratio (120Hz)	$Z_{-25^\circ C} / Z_{+20^\circ C}$	6	4	4	3	2	2
	$Z_{-40^\circ C} / Z_{+20^\circ C}$	12	10	8	4	4	4
耐久性 Load Life	+105°C施加额定电压 3000 小时 (L=5) /5000 小时 (L≥7), 恢复 16 小时后, 电容器应满足要求 After applying rated voltage for 3000 hours (L=5)/5000 hours (L≥7) at +105°C and then resumed 16 hours. The capacitor shall meet the following limits.						
	电容量变化率 Capacitance Change	≤±30%初始测量值 ≤±30% of Initial measured value					
	漏电流值 Leakage	≤规定值 ≤The specified value					
	损耗角正切值 Dissipation Factor	≤3 倍规定值 ≤300% of the specified value					
高温贮存 Shelf Life	+105°C, 1000 小时, 恢复 16 小时后, 电容器应满足下列要求。 After storage for 1000 hours at +105°C and then resumed 16 hours, the capacitor shall meet the following limits.						
	≤±20%初始测量值 ≤±20% of Initial measured value						
	≤2 倍规定值 ≤200% of the specified value						
	≤2 倍规定值 ≤200% of the specified value						
额定纹波电流的频率系数 Frequency coefficient of rated ripple current	频率 (Hz)	60 (50)	120	500	1K	10K≤	
	CAP (μF)						
	1μF	0.50	1.0	1.20	1.30	1.50	
	2.2 ~ 6.8μF	0.65	1.0	1.20	1.30	1.50	
	10 ~ 82μF	0.80	1.0	1.20	1.30	1.50	
	100 ~ 1000μF	0.80	1.0	1.10	1.15	1.20	

STL Series

■ 外形图及尺寸 Case size table



mm

$\phi D \pm 0.5$	4	5	6.3	8	8	10
L	7	7	7	7	9	9
$F \pm 0.5$	1.5	2.0	2.5	3.5		5.0
$\phi d \pm 0.05$	0.45			0.5	0.6	
a	1.0				2.0	

■ 规格壳号、最大允许纹波电流

Standard sizes & Maximum permissible ripple current

CAP (μF) \ / \ W_v	6.3V		10V		16		25V		35V		50V		63V	
	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple
1.0											4x7	12	4x7	12
2.2											4x7	16	4x7	16
3.3							4x7	18	4x7	18	4x7	19	4x7	21
4.7							4x7	21	4x7	22	4x7	24	5x7	26
10					4x7	28	4x7	31	4x7	30	5x7	42	6.3x7	45
12									5x5	34	6.3x5	37		
22	4x7	34	4x7	38	4x7	42	5x5	42	5x7	55	6.3x7	64		
33	4x7	42	4x7	46	5x5	45	6.3x5	60	6.3x7	73	8x7	75		
47	4x7	47	5x5	48	5x7	73	6.3x5	65	8x7	95	8x7	85		
56	5x5	50	5x7	68			6.3x7	85	8x7	105	8x7	110		
82	5x7	75					8x7	100			8*9	160		
100	5x7	87	6.3x5	75	6.3x7	95	8x7	112	8x7	115				
120	6.3x5	80	6.3x7	100										
220	8x5	125	8x7	160	8x7	165	8*9	190	10x9	360				
330	8x7	180	8x7	180	8*9	195	10x9	450						
470	8x7	190	8*9	210	10x9	460								
560	8*9	230												
680			10x9	470										
1000	10x9	480												

I~额定纹波电流 Rated ripple current: (mA, 105°C, 120Hz)