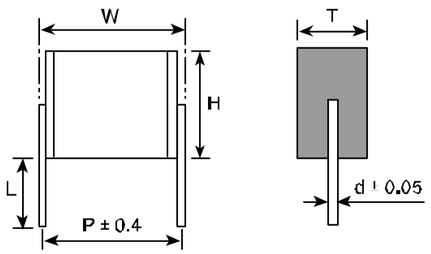
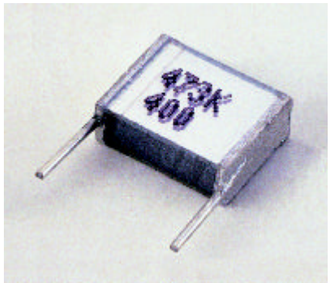
CL25

CL25(P=5.0)

■ 外形图 Outline Drawing





■ 特点

- 无外封装、叠片式结构
- 体积小
- 适用于电子设备的直流、脉动和脉冲电路。

■ Features

- Uncoated, stacked construction
- Small size
- Applied to DC impulse and pulse circuits

■ 技术要求 Specifications

引用标准 Reference Standard	GB7332 (IEC 60384-2)
气候类别 Climatic Category	55/100/56
额定温度 Rated Temperature	85℃ for V_R(DC) 75℃ for V_R(AC)
工作温度范围 Operating Temperature Range	-55℃~105℃ (+85℃ to +105℃: decreasing factor 1.25% per ℃ for V_R(DC)) (+75℃ to +105℃: decreasing factor 1.35% per ℃ for V_R(AC))
额定电压 Rated Voltage	63V、100V、250V、400V、630V、1 000V
电容量范围 Capacitance Range	0.0010 μF~10.0 μF
电容量偏差 Capacitance Tolerance	± 5%(J), ± 10%(K), ± 20%(M)
耐电压 Voltage Proof	1.4U_R (2s)
损耗角正切 Dissipation Factor	≤0.0100 (1kHz)
	≤0.0150 (10kHz, C_R ≤ 1.0μF)
	≤0.0300 (100kHz, C_R ≤ 0.1μF)
绝缘电阻 Insulation Resistance	U_R < 100V: ≥3 750MΩ, C_R ≤ 0.33μF; ≥1 250s, C_R > 0.33μF U_R >100V: ≥7 500MΩ, C_R ≤ 0.33μF; ≥2 500s, C_R > 0.33μF U_R < 100V: 充电电压10V U_R > 100V: 充电电压100V (20℃, 1min)

最大脉冲爬升速率 dV/dt(V/μs) Maximum Pulse Rise Time	U_R(VDC) / P(mm)	63	100	250	400	630	1000
	5	120	150	250	300	400	-
	7.5	120	150	200	275	320	400
	10	-	75	150	175	-	-
	15	-	50	100	125	150	-

■ 外形尺寸 Dimensions(mm)

引线间距 Lead pitch: P ± 0.4	5.0	7.5	10.0	15.0
引线直径 Lead diameter: ød = 0.05	0.5			0.6

电容量 (μF)	63VDC(40VAC)			100VDC(63VAC)			250VDC(160VAC)			400VDC(200VAC)			630VDC(400VAC)		
	Wmax	Hmax	Tmax	Wmax	Hmax	Tmax	Wmax	Hmax	Tmax	Wmax	Hmax	Tmax	Wmax	Hmax	Tmax
0.0010	6.5	3.9	2.0	6.5	3.9	2.0	6.5	3.9	2.0	6.5	3.9	2.0	6.5	3.9	2.0
0.0012	6.5	4.0	2.2	6.5	4.0	2.2	6.5	4.0	2.2	6.5	4.0	2.2	6.5	4.0	2.2
0.0015	6.5	5.0	2.2	6.5	5.0	2.2	6.5	5.0	2.2	6.5	5.0	2.2	6.5	5.0	2.2
0.0018	6.5	4.9	2.5	6.5	4.9	2.5	6.5	4.9	2.5	6.5	4.9	2.5	6.5	4.9	2.5
0.0022	6.5	4.7	2.2	6.5	4.7	2.2	6.5	4.7	2.2	6.5	4.7	2.2	6.5	4.7	2.2
0.0027	6.5	4.7	2.5	6.5	4.7	2.5	6.5	4.7	2.5	6.5	4.7	2.5	6.5	4.7	2.5
0.0033	6.5	5.2	2.7	6.5	5.2	2.7	6.5	5.2	2.7	6.5	5.2	2.7	6.5	5.2	2.7
0.0039	6.5	3.8	2.0	6.5	3.8	2.0	6.5	3.8	2.0	6.5	3.8	2.0	6.5	5.5	2.9
0.0047	6.5	3.9	2.2	6.5	3.9	2.2	6.5	3.9	2.2	6.5	3.9	2.2	6.5	4.9	2.5
0.0056	6.5	4.6	2.2	6.5	4.6	2.2	6.5	4.6	2.2	6.5	4.6	2.2	6.5	5.2	2.7
0.0068	6.5	4.6	2.5	6.5	4.6	2.5	6.5	4.6	2.5	6.5	4.6	2.5	6.5	5.0	3.2
0.0082	6.5	5.0	2.7	6.5	5.0	2.7	6.5	5.0	2.7	6.5	5.0	2.7	6.5	5.4	3.5
0.010	6.5	3.8	2.0	6.5	3.8	2.0	6.5	3.8	2.0	6.5	3.8	2.0	6.5	5.7	3.9
0.012	6.5	4.2	2.0	6.5	4.2	2.0	6.5	4.2	2.0	6.5	4.2	2.0	6.5	7.3	3.7
0.015	6.5	3.7	2.5	6.5	3.7	2.5	6.5	3.7	2.5	6.5	4.5	2.2			
0.018	6.5	4.5	2.5	6.5	4.5	2.5	6.5	4.5	2.5	6.5	4.5	2.5			
0.022	6.5	4.3	2.0	6.5	4.3	2.0	6.5	4.3	2.0	6.5	4.9	2.7			
0.027	6.5	4.6	2.2	6.5	4.6	2.2	6.5	4.6	2.2	6.5	5.4	2.9			
0.033	6.5	4.6	2.5	6.5	4.6	2.5	6.5	4.6	2.5	6.5	5.8	3.2			
0.039	6.5	4.9	2.7	6.5	4.9	2.7	6.5	4.9	2.7	6.5	5.7	3.7			
0.047	6.5	4.1	2.0	6.5	4.1	2.0	6.5	4.0	2.7	6.5	7.4	3.5			
0.056	6.5	4.2	2.2	6.5	4.2	2.2	6.5	4.3	2.9	6.5	8.2	3.7			
0.068	6.5	4.2	2.5	6.5	4.2	2.5	6.5	4.5	3.2	6.5	8.4	4.2			
0.082	6.5	4.6	2.7	6.5	4.6	2.7	6.5	4.9	3.5	6.5	8.9	4.7			
0.10	6.5	3.9	2.0	6.5	3.9	2.0	6.5	5.5	3.7	6.5	8.6	5.7			
0.12	6.5	4.0	2.2	6.5	4.0	2.2	6.5	7.1	3.5						
0.15	6.5	5.0	2.2	6.5	5.0	2.2	6.5	7.1	4.2						
0.18	6.5	5.2	2.4	6.5	5.2	2.4									
0.22	6.5	4.4	2.5	6.5	4.9	2.9									
0.27	6.5	4.8	2.7	6.5	5.3	3.2									
0.33	6.5	5.3	2.9	6.5	5.3	3.7									
0.39	6.5	5.5	3.2	6.5	7.6	3.2									
0.47	6.5	5.5	3.7	6.5	7.6	3.7									
0.56	6.5	7.9	3.2	6.5	7.7	4.2									
0.68	6.5	8.0	3.7	6.5	8.2	4.7									
0.82	6.5	8.2	4.2	6.5	7.9	5.7									
1.0	6.5	8.7	4.7	6.5	8.7	6.2									

■ 续(Continued)

电容量 (μF)	63VDC(40VAC)			100VDC(63VAC)			250VDC(160VAC)		
	Wmax	Hmax	Tmax	Wmax	Hmax	Tmax	Wmax	Hmax	Tmax
0.033							9.0	3.6	2.2
0.039							9.0	4.3	2.2
0.047							9.0	4.3	2.5
0.056							9.0	4.6	2.7
0.068							9.0	5.5	2.7
0.082							9.0	4.5	2.7
0.10				9.0	4.3	2.4	9.0	6.5	2.4
0.12				9.0	4.3	2.7	9.0	5.2	3.2
0.15				9.0	5.4	2.7	9.0	5.4	3.7
0.18				9.0	3.9	2.2	9.0	6.1	3.9
0.22	9.0	4.2	2.4	9.0	4.2	2.4	9.0	6.8	4.2
0.27	9.0	4.8	2.5	9.0	4.3	2.7	9.0	7.2	4.7
0.33	9.0	5.3	2.7	9.0	5.3	2.7	9.0	7.4	5.5
0.39	9.0	6.3	2.7	9.0	6.3	2.7			
0.47	9.0	5.5	2.7	9.0	6.0	3.2			
0.56	9.0	6.5	2.7	9.0	5.9	3.7			
0.68	9.0	6.3	3.2	9.0	6.1	4.2			
0.82	9.0	6.2	3.7	9.0	7.4	4.2			
1.0	9.0	6.5	4.2	9.0	7.8	4.7			
1.2	9.0	6.8	4.7	9.0	7.8	5.5			
1.5	9.0	7.5	5.2	9.0	8.5	6.2			
1.8	9.0	8.1	5.7	9.0	10.2	6.2			
2.2	9.0	9.0	6.2	9.0	10.5	7.2			
2.7	9.0	10.1	6.7						
3.3	9.0	11.4	7.2						
3.9	9.0	11.7	8.2						
4.7	9.0	12.4	9.2						
5.6	9.0	13.9	9.7						
6.8	9.0	14.5	11.2						

CL25(P=7.5)

■ 续(Continued)

电容量 (μF)	400VDC(200VAC)			630VDC(400VAC)			1000VDC(600VAC)		
	Wmax	Hmax	Tmax	Wmax	Hmax	Tmax	Wmax	Hmax	Tmax
0.0010	9.0	3.7	2.0	9.0	3.7	2.0	9.0	3.7	2.0
0.0012	9.0	3.7	2.0	9.0	3.7	2.0	9.0	3.7	2.0
0.0015	9.0	4.0	2.2	9.0	4.0	2.2	9.0	4.0	2.2
0.0018	9.0	4.7	2.2	9.0	4.7	2.2	9.0	4.7	2.2
0.0022	9.0	3.7	2.2	9.0	3.7	2.2	9.0	3.7	2.2
0.0027	9.0	4.6	2.2	9.0	4.0	2.4	9.0	4.6	2.2
0.0033	9.0	3.8	2.2	9.0	3.8	2.2	9.0	4.6	2.5
0.0039	9.0	3.9	2.2	9.0	3.9	2.2	9.0	4.9	2.7
0.0047	9.0	4.7	2.2	9.0	4.1	2.4	9.0	5.8	2.7
0.0056	9.0	3.7	2.2	9.0	4.6	2.5	9.0	5.5	3.2
0.0068	9.0	4.5	2.2	9.0	5.0	2.7	9.0	6.7	3.2
0.0082	9.0	4.5	2.5	9.0	6.1	2.7	9.0	6.7	3.7
0.010	9.0	3.8	2.2	9.0	5.9	3.2	9.0	7.0	4.2
0.012	9.0	4.2	2.2	9.0	5.8	3.7	9.0	7.3	4.7
0.015	9.0	4.3	2.5	9.0	6.2	4.2	9.0	8.1	5.2
0.018	9.0	3.8	2.2	9.0	7.4	4.2	9.0	9.7	5.2
0.022	9.0	4.3	2.2	9.0	7.9	4.7	9.0	10.6	5.7
0.027	9.0	4.4	2.5	9.0	7.8	5.7	9.0	11.8	6.2
0.033	9.0	4.8	2.7	9.0	9.5	5.7	9.0	13.2	6.7
0.039	9.0	5.6	2.7	9.0	10.2	6.2			
0.047	9.0	6.8	2.7	9.0	11.2	6.7			
0.056	9.0	6.4	3.2						
0.068	9.0	6.5	3.7						
0.082	9.0	6.6	4.2						
0.10	9.0	8.1	4.2						
0.12	9.0	7.5	5.2						
0.15	9.0	8.4	5.7						

CL25(P=10)

■ 续(Continued)

电容量 (μF)	100VDC(63VAC)			250VDC(160VAC)			400VDC(200VAC)		
	Wmax	Hmax	Tmax	Wmax	Hmax	Tmax	Wmax	Hmax	Tmax
0.010							11.5	4.1	2.2
0.012							11.5	4.5	2.2
0.015							11.5	4.7	2.5
0.018							11.5	5.0	2.7
0.022							11.5	4.4	2.5
0.027							11.5	5.4	2.5
0.033							11.5	4.5	2.2
0.039							11.5	4.4	2.5
0.047				11.5	3.9	2.2	11.5	4.7	2.7
0.056				11.5	4.3	2.2	11.5	5.6	2.7
0.068				11.5	4.3	2.5	11.5	5.4	3.2
0.082				11.5	4.6	2.7	11.5	6.5	3.2
0.10				11.5	5.6	2.7	11.5	6.6	3.7
0.12				11.5	5.4	3.2	11.5	6.7	4.2
0.15				11.5	6.7	3.2	11.5	7.3	4.7
0.18				11.5	5.4	3.2	11.5	7.8	5.2
0.22				11.5	5.5	3.7	11.5	8.6	5.7
0.27				11.5	5.8	4.2			
0.33	11.5	4.1	2.5	11.5	6.5	4.5			
0.39	11.5	4.9	2.5	11.5	6.9	4.9			
0.47	11.5	5.2	2.7	11.5	7.8	5.2			
0.56	11.5	5.0	3.2						
0.68	11.5	6.0	3.2						
0.82	11.5	6.0	3.7						
1.0	11.5	6.2	4.2						
1.2	11.5	7.5	4.2						
1.5	11.5	8.2	4.7						
1.8	11.5	8.7	5.2						
2.2	11.5	9.5	5.7						

CL25(P=15)

■ 续(Continued)

电容量 (μF)	100VDC(63VAC)			250VDC(160VAC)			400VDC(200VAC)			630VDC(400VAC)		
	Wmax	Hmax	Tmax	Wmax	Hmax	Tmax	Wmax	Hmax	Tmax	Wmax	Hmax	Tmax
0.047							16.5	4.1	2.4			
0.056							16.5	4.0	2.7			
0.068							16.5	4.3	2.9			
0.082							16.5	4.5	3.2			
0.10							16.5	5.5	3.2	16.5	8.7	5.2
0.12							16.5	5.3	3.7	16.5	9.1	5.7
0.15							16.5	6.2	3.9	16.5	10.3	6.2
0.18							16.5	6.7	4.2	16.5	10.3	7.2
0.22				16.5	4.6	3.2	16.5	7.1	4.7	16.5	11.7	7.7
0.27				16.5	5.6	3.2	16.5	7.6	5.2	16.5	13.4	8.2
0.33				16.5	5.6	3.7	16.5	8.0	5.9	16.5	13.5	9.7
0.39				16.5	6.6	3.7	16.5	8.9	6.2	16.5	14.3	10.7
0.47				16.5	6.7	4.2	16.5	9.3	7.0	16.5	15.6	11.7
0.56				16.5	6.8	4.7	16.5	9.9	7.7			
0.68				16.5	7.3	5.2	16.5	10.4	8.7			
0.82				16.5	8.8	5.2	16.5	11.8	9.2			
1.0	16.5	6.1	3.2	16.5	9.0	6.0	16.5	12.8	10.2			
1.2	16.5	5.9	3.7	16.5	9.5	6.7						
1.5	16.5	6.6	4.0	16.5	10.9	7.2						
1.8	16.5	7.5	4.2	16.5	12.1	7.7						
2.2	16.5	7.5	4.9	16.5	12.0	9.2						
2.7	16.5	8.5	5.2	16.5	13.2	10.2						
3.3	16.5	8.7	6.0	16.5	14.5	11.2						
3.9	16.5	9.9	6.2									
4.7	16.5	10.0	7.2									
5.6	16.5	11.0	7.7									
6.8	16.5	11.6	8.7									
8.2	16.5	12.4	9.7									
10	16.5	13.5	10.7									