

CS series

■ 特性 Features

- 105°C2000H 标准品 105°C2000H standard
- 适用于高密度表面安装 Suitable for High-Density Surface Mounting
- 高稳定性和可靠性 High Stability and Reliability



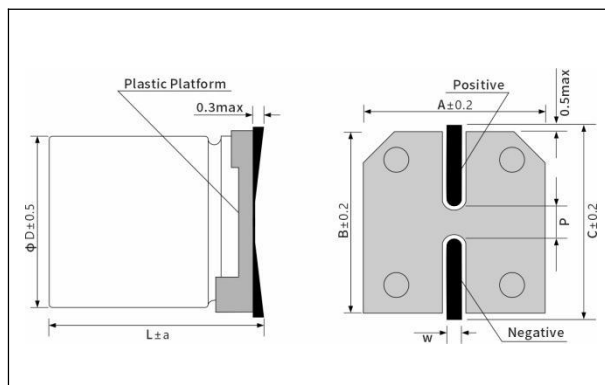
■ 仕様 Specifications

项目 Item	条件 Condition		性能 Performance							
使用温度范围 Operating Temperature Range	-		-40°C~+105°C							
额定电压范围 Rated Voltage Range	-		6.3~100V							
额定静容量范围 Rated Capacitance Range	-		1.0~1500μF							
额定静容量容许差 Capacitance Tolerance	120Hz, 20°C		±20%							
漏电流 Leakage current	施加额定电压 2 分钟后 After applying rated voltage for 2 minutes		$I \leq 0.01CV$ 或 $3\mu A$ (以较大值为准) $I \leq 0.01CV$ or $3\mu A$ (whichever is greater)							
额定电压 Rated Voltage(V)	-		6.3	10	16	25	35	50	63	100
损失角正切值 Dissipation Factor	120Hz, 20°C (Max.)	$\tan \delta$	0.30	0.24	0.20	0.16	0.14	0.14	0.14	0.14
		对于超过 1000μF 的产品, 每增加 1000μF, 其值便随之增加 0.02 For products exceeding 1000μF, the value increases by 0.02 per additional 1000μF.								
温度特性 Temperature Characteristics	阻抗率 Impedance Ratio(Max.)	$Z_{(-25^{\circ}C)}/Z_{(+20^{\circ}C)}$	4	3	2	2	2	2	2	3
		$Z_{(-40^{\circ}C)}/Z_{(+20^{\circ}C)}$	10	8	6	5	5	5	6	6
耐久性 Endurance	在 105°C 下, 连续施加额定电压 2000 小时后, 满足以下项目 Under 105°C, apply rated voltage for 2000 hours, The capacitors shall meet the following requirements.									
	静容量变化率 Capacitance Change	初始值的 ±30% 以内 ≤ ±30% of the initial value.								
	损失角正切值 Dissipation Factor	规格值 300% 以下 ≤ 300% of initial specified value.								
	漏电流 Leakage Current	规格值以下 ≤ Initial specified value.								

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■ 尺寸图 Dimensions

(Unit: mm)

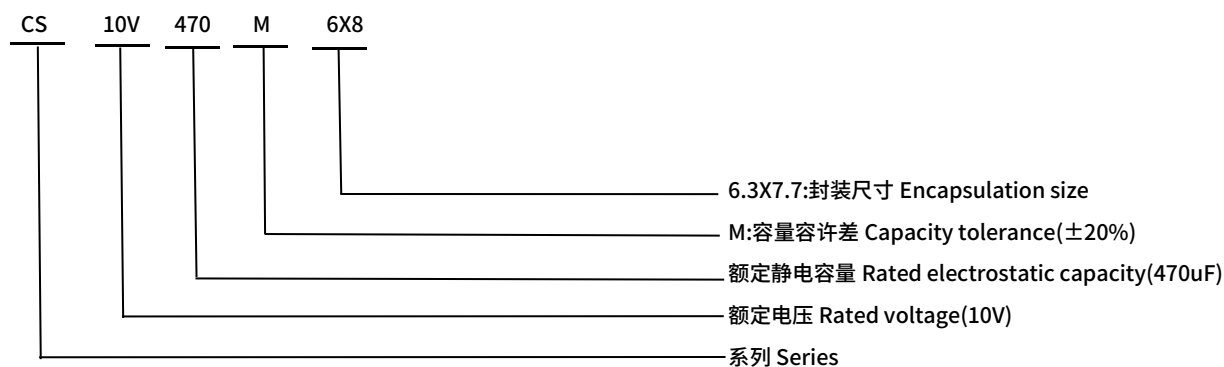


D	L	A	B	C	P	α	W
4	5.4	4.3	4.3	5.0	1.0	± 0.5	0.5-0.8
5	5.4	5.3	5.3	6.0	1.5	± 0.5	0.5-0.8
6.3	5.4	6.6	6.6	7.2	2.1	± 0.5	0.5-0.8
6.3	7.7	6.6	6.6	7.2	2.1	± 0.5	0.5-0.8
8.0	10.5	8.3	8.3	9.1	3.1	± 0.5	0.7-1.2
10.0	10.5	10.3	10.3	11.1	4.5	± 0.5	0.7-1.2

■ 纹波电流速查表 Ripple Current Quick Reference Table:

频率 Freq.	50Hz	120Hz	300Hz	1kHz	10kHz Up
容值 Cap.					
1~10 μ F	0.60	1.0	1.15	1.25	1.40
22~1500 μ F	0.75	1.0	1.10	1.20	1.35

■ 品号编码体系 Part Number Coding System (Example: 10V470 μ F)



注释: 型号中 R 表示小数点, 如 4R7 表示 4.7 μ F

Note: "R" in the model number denotes a decimal point (e.g., 4R7 = 4.7 μ F)

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■ 电气特性 Electrical characteristics

额定电压 Rated Voltage(V)	额定静容量 Rated Capacitance(μF)	铝壳尺寸 Case Size Φ DXL(mm)	漏电流 Leakage Current (μA,2min)	额定纹波电流 Rated Ripple Current (mA,105°C,120Hz)	损失角 正切值 tan δ	品号 Part Number
6.3	47	4X5.4	3	25	0.3	CS6.3V47M4X5
	100	5X5.4	6.3	39	0.3	CS6.3V100M5X5
	470	6.3X7.7	29.61	105	0.3	CS6.3V470M6X8
	820	8X10.5	51.6	230	0.3	CS6.3V820M8X10
	1000	8X10.5	63	230	0.3	CS6.3V1000M8X10
10	47	4X5.4	4.7	25	0.24	CS10V47M4X5
	100	5X5.4	10	39	0.24	CS10V100M5X5
	220	6.3X5.4	22	85	0.24	CS10V220M6X5
	330	6.3X7.7	33	105	0.24	CS10V330M6X8
	470	6.3X7.7	47	120	0.24	CS10V470M6X8
	470	8X6.5	47	105	0.24	CS10V470M8X6
	1000	8X10.5	100	230	0.24	CS10V1000M8X10
16	10	4X5.4	3	18	0.2	CS16V10M4X5
	22	4X5.4	3.52	20	0.2	CS16V22M4X5
	33	4X5.4	5.28	22	0.2	CS16V33M4X5
	47	5X5.4	7.52	31	0.2	CS16V47M5X5
	100	6.3X5.4	16	60	0.2	CS16V100M6X5
	100	5X5.4	16	39	0.2	CS16V100M5X5
	220	6.3X7.7	35.2	105	0.2	CS16V220M6X8
	220	6.3X5.4	35.2	85	0.2	CS16V220M6X5
	220	8X6.5	35.2	85	0.2	CS16V220M8X6
	330	6.3X7.7	52.8	105	0.2	CS16V330M6X8
	470	8X10.5	75.2	230	0.2	CS16V470M8X10
	470	6.3X7.7	75.2	145	0.2	CS16V470M6X8
	1000	10X10.5	160	347	0.2	CS16V1000M10X10
25	10	4X5.4	3	14	0.16	CS25V10M4X5
	22	5X5.4	5.5	25	0.16	CS25V22M5X5
	47	5X5.4	11.75	31	0.16	CS25V47M5X5
	47	6.3X5.4	11.75	48	0.16	CS25V47M6X5
	68	6.3X5.4	17	48	0.16	CS25V68M6X5
	100	6.3X7.7	25	65	0.16	CS25V100M6X8
	100	6.3X5.4	25	60	0.16	CS25V100M6X5
	220	8X10.5	55	175	0.16	CS25V220M8X10

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额定电压 Rated Voltage(V)	额定静容量 Rated Capacitance(μF)	铝壳尺寸 Case Size Φ DXL(mm)	漏电流 Leakage current (μA,2min)	额定纹波电流 Rated Ripple Current (mA,105°C,120Hz)	损失角 正切值 tan δ	品号 Part Number
25	220	6.3X7.7	55	105	0.16	CS25V220M6X8
	330	8X10.5	82.5	220	0.16	CS25V330M8X10
	470	8X10.5	117.5	230	0.16	CS25V470M8X10
35	10	4X5.4	3.5	14	0.14	CS35V10M4X5
	22	5X5.4	7.7	28	0.14	CS35V22M5X5
	33	6.3X5.4	11.55	38	0.14	CS35V33M6X5
	33	5X5.4	11.55	22	0.14	CS35V33M5X5
	47	6.3X5.4	16.4	50	0.14	CS35V47M6X5
	47	5X5.4	16.45	31	0.14	CS35V47M5X5
	100	6.3X7.7	35	84	0.14	CS35V100M6X8
	100	6.3X5.4	35	60	0.14	CS35V100M6X5
	100	8X6.5	35	70	0.14	CS35V100M8X6
	120	6.3X7.7	42	91	0.14	CS35V120M6X8
	150	6.3X7.7	52.5	100	0.14	CS35V150M6X8
	220	8X10.5	77	190	0.14	CS35V220M8X10
	470	10X10.5	164.5	286	0.14	CS35V470M10X10
50	1	4X5.4	3	7	0.14	CS50V1M4X5
	2.2	4X5.4	3	11	0.14	CS50V2R2M4X5
	3.3	4X5.4	3	13	0.14	CS50V3R3M4X5
	4.7	4X5.4	3	13	0.14	CS50V4R7M4X5
	6.8	5X5.4	3.4	16	0.14	CS50V6R8M5X5
	10	5X5.4	5	21	0.14	CS50V10M5X5
	10	6.3X5.4	5	24	0.14	CS50V10M6X5
	22	6.3X5.4	11	42	0.14	CS50V22M6X5
	47	6.3X7.7	23.5	63	0.14	CS50V47M6X8
	47	6.3X5.4	23.5	50	0.14	CS50V47M6X5
	47	8X6.5	23.5	48	0.14	CS50V47M8X6
	68	8X6.5	34	48	0.14	CS50V68M8X6
	100	8X10.5	50	140	0.14	CS50V100M8X10
	100	6.3X7.7	50	80	0.14	CS50V100M6X8
	220	10X10.5	110	220	0.14	CS50V220M10X10
	330	10X10.5	165	247	0.14	CS50V330M10X10
63	10	6.3X5.4	6.3	24	0.14	CS63V10M6X5
	22	6.3X5.4	13.86	28	0.14	CS63V22M6X5

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额定电压 Rated Voltage(V)	额定静电容量 Rated Capacitance(μF)	铝壳尺寸 Case Size Φ DXL(mm)	漏电流 Leakage current (μA,2min)	额定纹波电流 Rated Ripple Current (mA,105°C,120Hz)	损失角 正切值 tan δ	品号 Part Number
63	22	8X6.5	13.8	49	0.14	CS63V22M8X6
	47	6.3X7.7	29.61	63	0.14	CS63V47M6X8
	100	8X10.5	63	140	0.14	CS63V100M8X10
	100	10X10.5	63	200	0.14	CS63V100M10X10
	220	10X10.5	138.6	230	0.14	CS63V220M10X10
100	2.2	5X5.4	3	13	0.14	CS100V2R2M5X5
	4.7	5X5.4	4.7	16	0.14	CS100V4R7M5X5
	4.7	6.3X5.4	4.7	21	0.14	CS100V4R7M6X5
	10	6.3X5.4	10	24	0.14	CS100V10M6X5
	10	6.3X7.7	10	35	0.14	CS100V10M6X8
	22	8X10.5	22	84	0.14	CS100V22M8X10
	22	6.3X7.7	22	35	0.14	CS100V22M6X8
	47	8X10.5	47	119	0.14	CS100V47M8X10