

CU Series

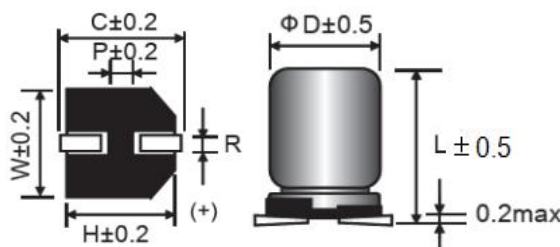
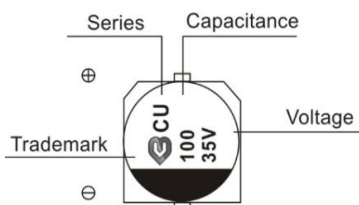
- Super low impedance, high ripple current, high voltage
- Load life of 2000 hours at 105°C
- SMD type: lead free reflow soldering condition at 260°C peak correspondence
- RoHS Compliant



规格表 Specifications

项目 Items	特性参数 Characteristics	
使用温度范围 Category Temperature Range	-55 ~ +105°C	
额定工作电压范围 Rated Voltage Range	35 ~ 100V	
静电容量允许偏差 Capacitance tolerance	±20%(M) (at 20°C, 120Hz)	
漏电流 Leakage Current	After 2 minutes applied for rated voltage at 20°C, less than or equal to the specified value. 施加额定工作电压2分钟后读数, 小于或等于规格值 (20°C)	
损耗角正切值tanδ Dissipation Factor	Less than or equal to the specified 小于或等于规格值 (at 20°C, 120Hz)	
温度特性 Low Temperature Characteristics (Max. Impedance Ratio)	Z(-25°C)/Z(+20°C)	≤ 1.25
	Z(-55°C)/Z(+20°C)	≤ 1.25
耐久性 Endurance	105°C 施加额定工作电压2000小时, 恢复到20°C后, 产品性能应满足以下要求 The specifications listed below shall be satisfied when the capacitors are restored to 20°C after the rated voltage is applied for 2000 hours at 105°C.	
	Appearance	No significant damage
	Capacitance change	≤ ±20% of the initial value
	D.F.(tanδ)	≤ 150% of the specified value
	ESR	≤ 150% of the specified value
耐湿负荷特性 Damp Heat (Steady State)	在60°C 温度, 湿度90%~95%RH的环境中, 施加额定电压1000小时后, 恢复到20°C后, 产品性能应满足以下要求 The specifications listed below shall be met when the capacitors are restored to 20°C after the rated voltage is applied for 1000 hours at 60°C, 90%~ 95% RH.	
	Appearance	No significant damage
	Capacitance change	≤ ±20% of the initial value
	D.F.(tanδ)	≤ 150% of the specified value
	ESR	≤ 150% of the specified value
浪涌电压特性 (Surge Voltage)	浪涌电压=额定电压* 1.15(V) Surge Voltage=Rated voltage * 1.15(V) 在105°C环境中, 按充电30秒, 放电5分30秒, 连续施加浪涌电压1000次(Rc=1kΩ), 待恢复测试, 应满足以下要求 The capacitors shall be subjected to 1000 cycles each consisting of charge with the surge voltages specified at 105°C for 30 seconds through a protective resistor (Rc=1kΩ) and discharge for 5 minutes 30 seconds.	
	Appearance	No significant damage
	Capacitance change	≤ ±20% of the initial value
	D.F.(tanδ)	≤ 150% of the specified value
	ESR	≤ 150% of the specified value
Resistance to soldering heat 焊接耐热性	按回流焊试验后, 应满足以下要求 After soldering the capacitor shall meet the specifications listed below.	
	Capacitance change	≤ ±10% of the initial value
	D.F.(tanδ)	≤ 130% of the specified value
	ESR	≤ 130% of the specified value
	Leakage current	≤ The specified value

外形图 Dimensions (mm)



ΦD	6.3	6.3	8	8	10
L	6	9	7	12.0	12.6
W	6.6	6.6	8.3	8.3	10.3
H	6.6	6.6	8.3	8.3	10.3
C	7.3	7.3	9.0	9.0	11.0
R	0.5~0.8	0.5~0.8	0.8~1.1	0.8~1.1	0.8~1.1
P	2.1	3.2	3.2	3.2	4.6

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◆ 尺寸与最大纹波电流一览表 Standard Ratings

Rated voltage (V)	Rated capacitance(μF)	Case size ΦD*L(mm)	Leakage current (μA)	tanδ (120Hz)	ESR(mΩ) at 20°C,100 KHz	Rated ripple current (mArms/105°C\100kHz)
35 (1V)	22	6.3*6	300	0.12	50	1,450
	47	6.3*6	300	0.12	50	1,500
	56	6.3*9	392	0.12	50	2,300
	68	6.3*9	476	0.12	50	2,300
	68	8*7	476	0.12	60	2,500
	100	8*12	700	0.12	30	2,750
	180	10*12	1,540	0.12	30	3,200
	220	10*12	1,540	0.12	30	3,200
50 (1H)	12	6.3*6	300	0.12	100	1,500
	33	6.3*9.5	416	0.12	50	1,800
	56	8*9.7	560	0.12	30	2,400
	100	10*12	1,000	0.12	28	2,560
	180	10*12	1,800	0.12	28	2,560
63 (1J)	22	6.3*9	300	0.12	50	1,800
	33	6.3*9	416	0.12	50	2,100
	47	8*12	592	0.12	36	2,200
	68	10*12	856	0.12	30	2,400
	100	10*12	1,260	0.12	28	2,550
80 (1K)	33	8*12	528	0.12	45	2,100
	47	10*12	752	0.12	40	2,300
	68	10*12	1,088	0.12	38	2,550
100 (2A)	10	8*12	300	0.12	45	1,700
	15	8*12	300	0.12	40	2,050
	22	10*12	440	0.12	38	2,250
	27	10*12	540	0.12	38	2,250

◆ 纹波电流修正系数 Rated Ripple Current Coefficient

频率 Frequency(Hz)	120Hz≤f<1kHz	1kHz≤f<10kHz	10kHz≤f<100kHz	100kHz≤f<500kHz
系数 Coefficient	0.05	0.30	0.70	1.00