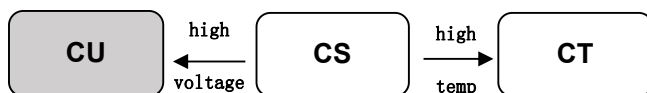


CU Series

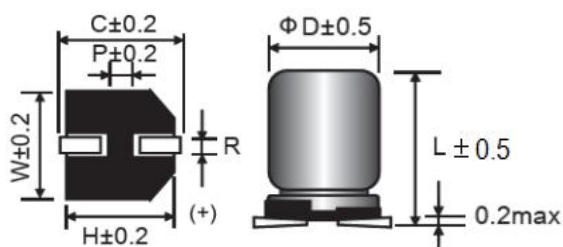
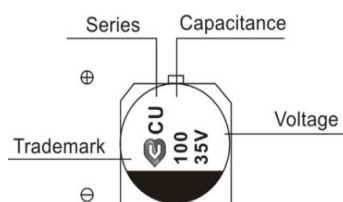
- Super low impedance, high ripple current, high voltage
- Load life of 2000 hours at 105℃
- SMD type: lead free reflow soldering condition at 260℃ peak correspondence
- RoHS Compliant



◆ 规格表 Specifications

项目Items		特性参数Characteristics	
使用温度范围 Category Temperture Range		-55 ~ +105℃	
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℃,120Hz)	
漏电流 Leakage Current		After 2 minutes applied for rated voltage at 20℃, 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℃)	
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℃,120Hz)	
温度特性 Low Temperature Characteristics (Max.Impedance Ratio)	Z(-25℃)/Z(+20℃)	≤1.25	(100KHz)
	Z(-55℃)/Z(+20℃)	≤1.25	
耐久性 Endurance	105℃施加额定工作电压2000小时, 恢复到20℃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℃ after the rated voltage is applied for 2000 hours at 105℃.		
	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	
	Leakage current	≤The specified value	
Damp Heat (Steady State) 耐湿负荷特性	在60℃ 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℃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℃ after the rated voltage is applied for 1000 hours at 60℃, 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	
	Leakage current	≤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℃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℃ 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	
	Leakage current	≤The specified value	
Resistance to soldering heat 焊接耐热性	按回流焊试验后, 应满足于以下要求 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

CU Series

◆ 尺寸与最大纹波电流一览表 Standard Ratings

Rated voltage (V)	Rated capacitance(uF)	Case size ΦD*L(mm)	Leakage current (uA)	tanδ (120Hz)	ESR(mΩ) at 20℃,100 KHz	Rated ripple current (mA _{rms} /105℃\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