

CUL Long life High Reliability High Ripple Current Series

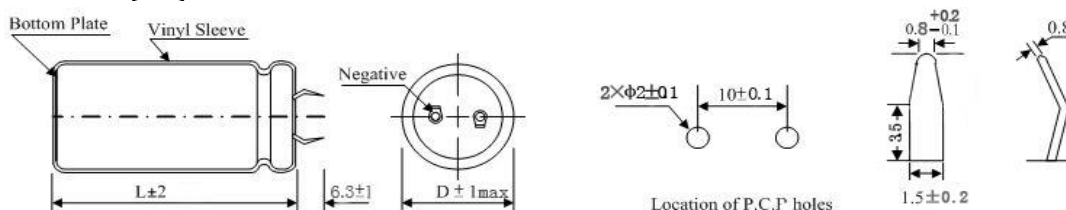
- Endurance: 105°C 5000 hours
- Recommended Applications : Excellent airtightness, adoption of special sealing process
- Corresponding product to RoHS



■ SPECIFICATIONS

Item	Characteristics			
Category Temperature Range	-40 ~ +105℃	-25 ~ +105℃		
Rated Voltage Range	160 ~ 420V	450 ~ 550V		
Rated Capacitance Range	100 ~ 3300μF			
Capacitance Tolerance	± 20 % (120Hz , 20℃)			
Leakage Current (20℃)	I =3√Cr*Vr (μA) (After rated voltage applied for 5 minutes) I: Max. leakage current (μA), Cr : Nominal capacitance (μF), Vr : Rated voltage (V)			
Dissipation Factor(MAX) (tanδ) (120Hz ,20℃)	Rated voltage(V)	160~250	315~450	500~550
	tanδ	0.15	0.20	0.20
Low Temperature Stability Impedance Ratio (MAX)	Measurement frequency : 120Hz			
	Rated voltage(V)	160~250	315~400	420~550
	Z-25℃ / Z+20℃	4	7	10
	Z-40℃ / Z+20℃	8	12	—
Endurance	After applying rated voltage with rated Ripple current for 5000hrs at 105℃,Restore them to room temperature for 16 hours before testing,the capacitor shall meet the following requirements.			
	Capacitance change		Within ± 20% of the initial value	
	D.F. (tanδ)		Not more than 200% of the specified value	
	Leakage current		Not more than the specified value	
Shelf Life	After storage for 1000 hours at 105℃,UR to be applied for 30 minutes and then Restore them to room temperature for 16 hours before testing,the capacitor shall meet the following requirements.			
	Capacitance change		Within ± 20% of the initial value	
	D.F. (tanδ)		Not more than 200% of the specified value	
	Leakage current		Not more than 200% of the specified value	

■ Dimensions [mm]



■ Multiplier for Ripple Current

Freq. (Hz)	50/60	120	300	1K	10K	≥50K
160~250V	0.80	1.00	1.17	1.32	1.45	1.50
315~550V	0.80	1.00	1.15	1.30	1.40	1.43

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■STANDARD RATINGS

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Rated Voltage (SurageVoltage) (V)	Cap (μF)	Case size ΦDxL(mm)	tanδ	Ripple current (A/rms105℃) (120Hz)	Rated Voltage (SurageVoltage) (V)	Cap (μF)	Case size ΦDxL(mm)	tanδ	Ripple current (A/rms105℃) (120Hz)
400(450)	330	30x30	0.20	1.40	450(500)	82	22x25	0.20	0.65
		35x25	0.20	1.50		100	22x30	0.20	0.70
	390	25x45	0.20	1.60		120	22x35	0.20	0.78
		30x35	0.20	1.60			25x25	0.20	0.82
		35x30	0.20	1.70			25x30	0.20	0.85
	470	30x45	0.20	1.80		150	25x35	0.20	1.00
		35x35	0.20	1.90			30x25	0.20	0.95
	560	30x50	0.20	2.10		220	25x40	0.20	1.10
	560	35x40	0.20	2.10			30x30	0.20	1.18
	680	30x60	0.20	2.30		270	25x45	0.20	1.20
	680	35x45	0.20	2.40			30x35	0.20	1.25
	820	35x50	0.20	2.70			35x30	0.20	1.30
	1000	35x60	0.20	3.20		330	30x40	0.20	1.50
	1200	35x70	0.20	3.70		390	30x45	0.20	1.60
420(470)	100	22x25	0.20	0.70			35x35	0.20	1.65
	120	22x30	0.20	0.80			35x40	0.20	1.70
		25x25	0.20	0.80	470	35x40	0.20	1.80	
	150	30x35	0.20	0.90		35x45	0.20	1.85	
	180	22x40	0.20	1.00		35x50	0.20	1.90	
		25x30	0.20	1.00	560	35x50	0.20	2.10	
		30x25	0.20	1.10	680	35x55	0.20	2.40	
	220	22x45	0.20	1.20		35x60	0.20	2.50	
		22x50	0.20	1.20	500(550)	820	35x65	0.20	3.00
		25x35	0.20	1.20		1000	35x70	0.20	3.40
		30x25	0.20	1.20		100	25x30	0.20	0.72
	270	25x40	0.20	1.30		120	25x35	0.20	0.82
		30x30	0.20	1.40		150	30x30	0.20	0.95
		35x25	0.20	1.50		180	30x35	0.20	1.00
	330	25x50	0.20	1.50		220	30x40	0.20	1.10
		30x35	0.20	1.50		270	35x35	0.20	1.20
		35x30	0.20	1.60		330	35x40	0.20	1.45
	390	30x40	0.20	1.70		390	35x45	0.20	1.65
		35x30	0.20	1.70	470	35x50	0.20	1.80	
		35x35	0.20	1.70	560	35x60	0.20	2.00	
	470	30x50	0.20	1.90	680	35x65	0.20	2.20	
		35x40	0.20	2.00	550(600)	180	30x40	0.20	1.12
	560	35x40	0.20	2.20		220	35x35	0.20	1.25
	680	35x50	0.20	2.50		270	35x40	0.20	1.35
	820	35x55	0.20	3.00		330	35x45	0.20	1.45
	1000	35x65	0.20	3.40		390	35x50	0.20	1.65
	1200	35x75	0.20	3.80		470	35x60	0.20	2.03