UDA Series

• 125℃ 1,000Hrs assured.

- Non-solvent proof.
- Wide Temperature range.
- For automotive and industrial machine.
- RoHS compliant.
- Halogen-free capacitors are also available.

TDA → UDA

Wide Temp.

SPECIFICATIONS

Item	Characteristics	
Rated Voltage Range	16 ~ 80 VDC	160 ~ 250 VDC
Operating Temperature Range	-40 ~ +125℃	-25 ~ +125℃
Capacitance Tolerance	±20% (M) (at 20℃, 120Hz)	
Leakage Current	I=0.02CV or 3mA, whichever is smaller. Where, I:Leakage current(μA) C:Nominal capacitance(μF) V:Rated voltage(VDC) (at 20℃, 5 minutes)	
※ Dissipation Factor(Tanδ)	Rated Voltage(VDC): 16 / 25 / 35 / 50~80 / 160~250 Tanδ(Max.): 0.45 / 0.40 / 0.35 / 0.30 / 0.20 (at 20℃, 120Hz)	
Temperature Characteristics (Max.Impedance ratio)	Rated Voltage(VDC): 16 / 25 / 35 / 50~80 / 160~250 Z(-25℃)/Z(20℃): 4 / 3 / 3 / 2 / 4 Z(-40℃)/Z(20℃): 15 / 10 / 8 / 6 / - (120Hz)	
Load Life	The following specifications shall be satisfied when the capacitors are restored to 20℃ after the rated voltage is applied for 1,000 hours at 125℃. Capacitance change ≦ ±20% of the initial value Tanδ ≦ 200% of the initial specified value Leakage Current ≦ The initial specified value	
Shelf Life	The following specifications shall be satisfied when the capacitors are restored to 20℃ after the exposing them at 125℃ for 500 hours without voltage applied. The rated voltage shall be applied to the capacitors for a minimum of 30 minutes, at least 24 hours and not more than 48 hours before the measurement. Capacitance change ≦ ±20% of the initial value Tanδ ≦ 200% of the initial specified value Leakage Current ≦ The initial specified value	
Others	Satisfied characteristics KS C IEC 60384-4	

※ For capacitors with CV products > 100,000 Higher Tanδ value may apply.
When the capacitance exceeds 1,000μF, 0.01 shall be added every 1,000μF increase.

RATED RIPPLE CURRENT

When capacitors are operated in any other condition at 120Hz, the maximum ripple current must be multiplied by the figure shown in the table.

Frequency multiplying factor

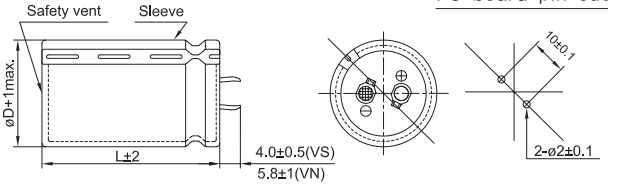
VDC \ Freq.(Hz)	60	120	300	1k	10k~
16~50VDC	0.95	1.00	1.03	1.05	1.08
63~100VDC	0.92	1.00	1.07	1.13	1.19
160~250VDC	0.81	1.00	1.17	1.32	1.45

DIMENSIONS OF UDA Series

Unit(mm)

ø D= ø 22~ ø 35 VN/VS type

PC board pin-out



Marking : GREEN SLEEVE, BLACK INK
The standard design has no bottom plate.

RATINGS OF UDA Series

μF \ VDC / ø D	16				25				35			
	22	25.4	30	35	22	25.4	30	35	22	25.4	30	35
1,000									22×30 0.85			
1,500					22×30 0.95				22×40 1.16	25.4×30 1.14		
2,200	22×30 1.00				22×40 1.28	25.4×30 1.41			22×50 1.54	25.4×40 1.54	30×30 1.50	
3,300	22×40 1.36	25.4×35 1.41			22×50 1.72	25.4×40 1.72	30×30 1.68				30×40 2.04	35×30 2.09
4,700	22×50 1.78	25.4×40 1.77	30×30 1.74			25.4×50 2.23	30×40 2.22	35×30 2.17				35×40 2.61
6,800			30×40 2.31	35×30 2.26			30×50 2.90	35×40 2.87				
10,000				35×45 3.14								

μF \ VDC / ø D	50				63				80			
	22	25.4	30	35	22	25.4	30	35	22	25.4	30	35
330					22×35 0.69	25.4×30 0.71			22×30 0.59			
470					22×40 0.87	25.4×35 0.91	30×30 0.93		22×40 0.79	25.4×35 0.82		
680	22×30 0.78					25.4×45 1.21	30×35 1.19	35×30 1.22		25.4×40 1.04	30×35 1.07	
1,000	22×40 1.06	25.4×30 1.04					30×45 1.60	35×40 1.65			30×45 1.42	35×35 1.40
1,500	22×50 1.42	25.4×40 1.42	30×30 1.39					35×50 2.16				35×45 1.86
2,200			30×40 1.86	35×35 1.91								
3,300				35×40 2.45								

μF \ VDC / ø D	160				200				250			
	22	25.4	30	35	22	25.4	30	35	22	25.4	30	35
100									22×30 0.32			
150	22×30 0.37				22×35 0.42				22×40 0.44	25.4×30 0.43		
220	22×40 0.50	25.4×30 0.49			22×45 0.56	25.4×40 0.58	30×30 0.57		22×50 0.58	25.4×40 0.58	30×35 0.60	35×30 0.61
330	22×50 0.67	25.4×40 0.67	30×30 0.65			25.4×50 0.77	30×40 0.77	35×30 0.75			30×45 0.80	35×35 0.79
470		25.4×50 0.87	30×40 0.86	35×30 0.84				35×40 0.98				35×45 1.03
680			30×50 1.12	35×40 1.11				35×50 1.28				35×50 1.28
1,000				35×50 1.46	← Case Size ø D×L(mm) ← Rated Ripple Current(Arms/125℃, 120Hz)							