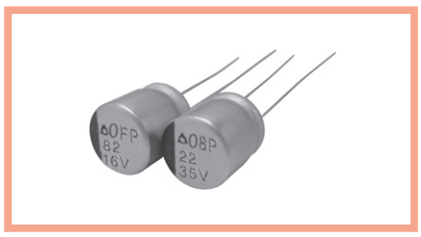
reALcap™ APA Series

- Higher heat resistance (125℃)
- High Ripple Current
- Endurance 125℃, 2,000hrs

ASA → APA
High Temp.



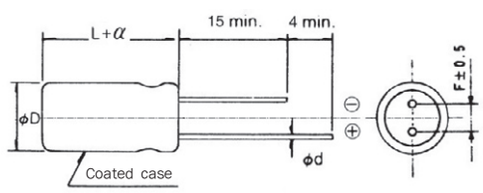
SPECIFICATIONS

Item	Characteristics
Category temperature range	-55 to +125℃
Rated voltage range	10 to 25VDC
Surge voltage	Rated Voltage(WV): 10 / 16 / 25 — Surge Voltage(SV): 11.5 / 18.4 / 29
Capacitance tolerance	±20%(M) (at 20℃, 120Hz)
Tangent of loss angle	Shall not exceed the value in Ratings of APA series. (at 20℃, 120Hz)
Leakage Current ※ 1	Shall not exceed the value in Ratings of APA series. (at 20℃, 2 minutes)
ESR	Shall not exceed the value in Ratings of APA series. (at 20℃, 100kHz)
Impedance Ratio (Characteristics at low temp.)	Z(-25℃)/Z(+20℃) ≤ 1.15; Z(-55℃)/Z(+20℃) ≤ 1.25 (at 100kHz)
Endurance	The following specifications shall be satisfied when the capacitors are restored to 20℃ after the rated voltage is applied for 2,000 hours at 125℃. Capacitance change ≦ ±20% of the initial value; Tan δ ≦ 200% of the initial specified value; ESR ≦ 200% of the initial specified value; Leakage current ≦ The initial specified value
Bias Humidity	The following specifications shall be satisfied when the capacitors are restored to 20℃ after subjecting them to the DC rated voltage at 60℃, 90~95%RH for 500 hours. Capacitance change ≦ ±20% of the initial value; Tan δ ≦ 200% of the initial specified value; ESR ≦ 200% of the initial specified value; Leakage current ≦ The initial specified value

※ 1. If any doubt arises, remeasure the leakage current after following voltage treatment.(Voltage treatment : Applying rated voltage for 120minutes at 125℃)

DIMENSIONS

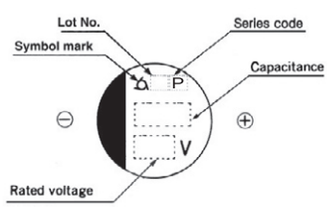
Coating Case Type



Unit(mm)

φD(+0.5max.)	6.3	8.0	8.0
L	6.0	7.0	11.5
α	0.5		
φd(±0.05)	0.45	0.45	0.6
F(±0.5)	2.5	3.5	3.5

MARKING



RATED RIPPLE CURRENT MULTIPLIERS

Frequency Multipliers

Freq.(Hz)	120≦ f <1k	1k≦ f <10k	10k≦ f <100k	100k≦ f <500k
Factor	0.05	0.3	0.7	1

RATINGS OF APA Series

Case Size (ØD×L) (mm)	Rated Voltage (V)	Rated Capacitance (μF)	ESR(mΩ) (at 100kHz)	Rated Ripple Current (mArms) at 100kHz		Tangent of loss angle	Leakage Current (μA)
				105℃<Temp.≤125℃	Temp.≤105℃		
6.3×6	10	56	45	538	1,700	0.10	112
	25	10	65	474	1,500	0.10	50
8×7	16	82	40	670	2,120	0.10	262
	25	22	48	580	1,835	0.10	110
8×11.5	16	150	27	994	3,140	0.10	480
	25	47	30	943	2,980	0.10	235