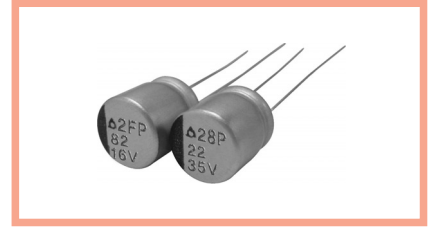
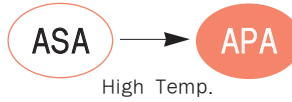


reALcap™ APA Series

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



SPECIFICATIONS

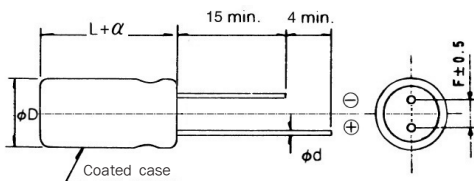
Item	Characteristics			
Category temperature range	-55 to +125°C			
Rated voltage range	10 to 25V _{DC}			
Surge voltage	Rated Voltage(WV)	10	16	25
	Surge Voltage(SV)	11.5	18.4	29
Capacitance tolerance	±20%(M) (at 20°C, 120Hz)			
Tangent of loss angle	Shall not exceed the value in Ratings of APA series. (at 20°C, 120Hz)			
Leakage Current ※ 1	Shall not exceed the value in Ratings of APA series. (at 20°C, 2 minutes)			
ESR	Shall not exceed the value in Ratings of APA series. (at 20°C, 100kHz)			
Impedance Ratio (Characteristics at low temp.)	Impedance	Ratio		
	Z(-25°C)/Z(+20°C)	≤ 1.15		
	Z(-55°C)/Z(+20°C)	≤ 1.25 (at 100kHz)		
Endurance	The following specifications shall be satisfied when the capacitors are restored to 20°C after the rated voltage is applied for 2,000 hours at 125°C.			
	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°C after subjecting them to the DC rated voltage at 60°C, 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°C)

Conductive Polymer

DIMENSIONS

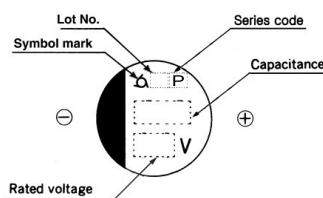
Coating Case Type



Unit(mm)

∅D(+0.5max.)	6.3	8.0	8.0
L	6.0	7.0	11.5
α	0.5		
∅d(±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 (\varnothing D × L) (mm)	Rated Voltage (V)	Rated Capacitance (μ F)	ESR(m Ω) (at 100kHz)	Rated Ripple Current (mA rms) at 100kHz		Tangent of loss angle	Leakage Current (μ A)
				105°C < Temp. \leq 125°C	Temp. \leq 105°C		
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