reALcap™ APV Series

- Higher heat resistance (125℃).
- High Ripple Current.
- Endurance 125℃, 2,000hrs.
- AEC-Q200 compliant : Please contact us for more details, test data, information.

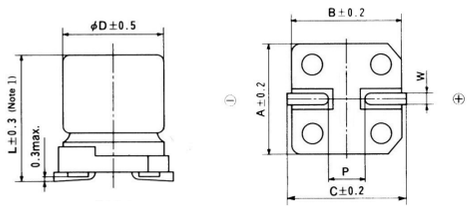
ASV → APV
High Temp.

SPECIFICATIONS

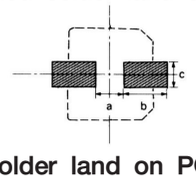
Item	Characteristics
Category temperature range	-55 to +125℃
Rated voltage range	10 to 25VDC
Surge voltage	Rated Voltage(WV): 10, 16, 25 Surge Voltage(SV): 11.5, 18.4, 29
Capacitance tolerance	±20%(M) (at 20℃, 120Hz)
Tangent of loss angle	Shall not exceed the value in Ratings of APV series. (at 20℃, 120Hz)
Leakage Current ※ 1	Shall not exceed the value in Ratings of APV series. (at 20℃, 2minutes)
ESR	Shall not exceed the value in Ratings of APV series. (at 20℃, 100kHz)
Impedance Ratio (Characteristics at low temp.)	Impedance / Ratio 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℃)
※ 2. Reflow Conditions : Refer to 37 page

DIMENSIONS



Recommended solder land on PC board



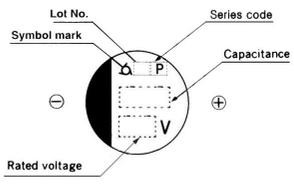
▨ : Solder land on PC board

Note 1 : L±0.5 for 8×11.5(H12)

Unit(mm)

Case code	ø D	L	A	B	C	W	P	a	b	c
F60	6.3	5.7	6.6	6.6	7.2	0.5-0.8	1.9	1.9	3.5	1.6
H70	8.0	6.7	8.3	8.3	9.0	0.5-0.8	3.1	3.1	4.2	1.6
H12	8.0	11.5	8.3	8.3	9.0	0.7-1.1	3.1	3.1	4.2	2.2

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 APV Series

Case Code	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℃		
F60	10	56	45	538	1,700	0.10	112
	25	10	65	474	1,500	0.10	50
H70	16	82	40	670	2,120	0.10	262
	25	22	48	580	1,835	0.10	110
H12	16	150	27	994	3,140	0.10	480
	25	47	30	943	2,980	0.10	235