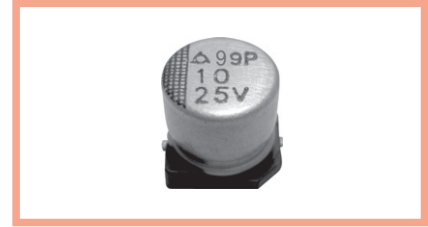
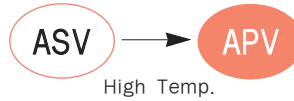


## reAlcap™ APV Series

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

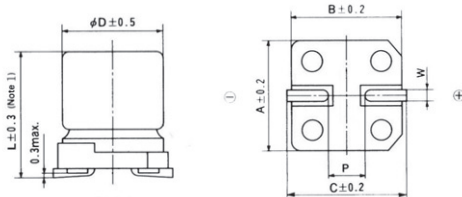


### SPECIFICATIONS

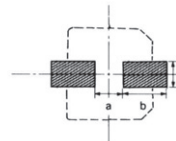
Item	Characteristics				
Category temperature range	-55 to +125°C				
Rated voltage range	10 to 35V <sub>DC</sub>				
Surge voltage	Rated Voltage(WV)	10	16	25	35
	Surge Voltage(SV)	11.5	18.4	29	40
Capacitance tolerance	±20%(M) (at 20°C, 120Hz)				
Tangent of loss angle	Shall not exceed the value in Ratings of APV series. (at 20°C, 120Hz)				
Leakage Current ※ 1	Shall not exceed the value in Ratings of APV series. (at 20°C, 2minutes)				
ESR	Shall not exceed the value in Ratings of APV series. (at 20°C, 100kHz)				
Impedance Ratio (Characteristics at low temp.)	Impedance	Ratio			(at 100kHz)
	Z(-25°C)/Z(+20°C)	≤ 1.15			
	Z(-55°C)/Z(+20°C)	≤ 1.25			
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)
- ※ 2. Reflow Conditions : Refer to 37 page

### DIMENSIONS

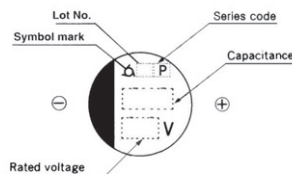


### Recommended solder land on PC board



■ : Solder land on PC board

### MARKING



Note 1 : L±0.5 for 8×11.5(H12)

Unit(mm)

Case code	φD	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

### 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 ( $\mu$ F)	ESR(m $\Omega$ ) (at 100kHz)	Rated Ripple Current (mArms) at 100kHz		Tangent of loss angle	Leakage Current ( $\mu$ A)
				105°C <Temp. $\leq$ 125°C	Temp. $\leq$ 105°C		
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
	35	8.2	70	400	1,300	0.10	57
H12	25	47	30	943	2,980	0.10	235
	35	22	50	700	2,300	0.10	154