Order code	Manufacturer code	Description
11-3060	VA1A477M1012M	130 DEG LOW IMPEDANCE 10V 470UF CAP RC
11-3060	VA1A477M1012M	130 DEG LOW IMPEDANCE 10V 470UF CAP RC
11-3061	VA1C228M12025*	130 DEG LOW IMPEDANCE 16V 2200UF CAP RC
11-3061	VA1C228M12025*	130 DEG LOW IMPEDANCE 16V 2200UF CAP RC
11-3062	VA1E227M0811M	130 DEG LOW IMPEDANCE 25V 220UF CAP RC
11-3062	VA1E227M0811M	130 DEG LOW IMPEDANCE 25V 220UF CAP RC
11-3063	VA1E477M10020	130 DEG LOW IMPEDANCE 25V 470UF CAP RC
11-3063	VA1E477M10020	130 DEG LOW IMPEDANCE 25V 470UF CAP RC
11-3064	VA1E108M12025	130 DEG LOW IMPEDANCE 25V 1000UF CAP RC
11-3065	VA1V107M0811M	130 DEG LOW IMPEDANCE 35V 100UF CAP RC
11-3066	VA1V337M10016	130 DEG LOW IMPEDANCE 35V 330UF CAP RC
11-3067	VA1H336M0811M	130 DEG LOW IMPEDANCE 50V 33UF CAP RC
11-3068	VA1H107M1012M*	130 DEG LOW IMPEDANCE 50V 100UF CAP RC
11-3069	VA1H227M10020*	130 DEG LOW IMPEDANCE 50V 220UF CAP RC
11-3070	VA1H108M1631M	130 DEG LOW IMPEDANCE 50V 1000UF CAP RC
11-3071	VA1J476M1012M	130 DEG LOW IMPEDANCE 63V 47UF CAP RC
11-3072	VA1J107M10016	130 DEG LOW IMPEDANCE 63V 100UF CAP RC
11-3073	VA1J477M16025	130 DEG LOW IMPEDANCE 63V 470UF CAP RC

Sales: 01206 751166 **Technical: 01206 835555** **Fax: 01206 751188**
Sales@rapidelec.co.uk **Tech@rapidelec.co.uk** **www.rapidonline.com**

VA 130℃, Long Life, Low impedance Series

- Load Life of 4000 hours at 130℃
- Low impedance at high frequency
- For Electronic Control Unit and other high temperature applications

RB ⇨ (High temp.) **VA**

Item	Characteristics
Operating temperature range	-40 ~ +130℃
Leakage current max.	I = 0.01CV or 3㎂ whichever is greater (after 2 minutes)
Capacitance tolerance	±20% at 120Hz, 20℃
Dissipation factor max. (at 120Hz, 20℃)	Capacitance > 1000㎌ : tanδ increase by 0.02 for each 1000㎌ from below value.

Rated Voltage(V)	10	16	25	35	50	63
tanδ	0.20	0.16	0.14	0.12	0.10	0.09

Low temperature characteristics (Impedance Ratio at 120Hz)

WV	10	16	25	35	50	63
Z(-25℃)/Z(+20℃)	3	2	2	2	2	2
Z(-40℃)/Z(+20℃)	6	4	3	3	3	3

Load life (after application of the rated voltage for 4000 hours at 130℃)

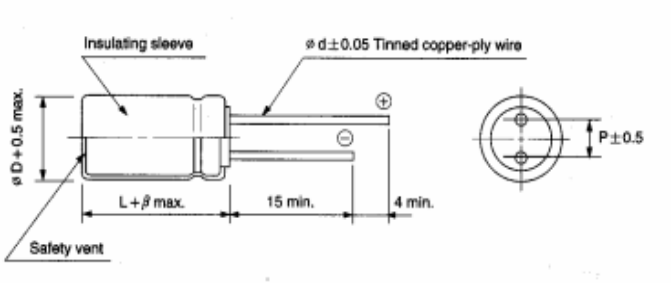
Leakage current	Less than specified value
Capicitance change	Within ±30% of the initial value
tanδ	Less than 300% of the specified value

Φ8 and Φ10 products are for 2000 hours

Shelf life (at 130℃)	After 1000 hours no load test, leakage current, capacitance and tanδ are same as load life value

● DRAWING

Unit : mm



ΦD	8	10	12.5	16	18
P	3.5	5	5	7.5	7.5
Φd	0.6	0.6	0.6	0.8	0.8
β	1.0	2.0			

MINIATURE ALUMINUM ELECTROLYTIC CAPACITORS

VA series

● DIMENSIONS & MAXIMUM PERMISSIBLE RIPPLE CURRENT

WV / Item / μF	10(1A)			16(1C)			25(1E)		
	ΦD×L (mm)	Impedance (Ωmax.) 20℃,100kHz	Ripple current (mA rms) 130℃,100kHz	ΦD×L (mm)	Impedance (Ωmax.) 20℃,100kHz	Ripple current (mA rms) 130℃,100kHz	ΦD×L (mm)	Impedance (Ωmax.) 20℃,100kHz	Ripple current (mA rms) 130℃,100kHz
220							8×11.5	0.22	360
330	8×11.5	0.22	360	8×11.5	0.22	360	10×12.5	0.15	620
470	10×12.5	0.15	620	10×12.5	0.15	620	10×20	0.10	800
1000	10×20	0.073	960	10×20	0.073	960	12.5×25	0.055	1100
2200	12.5×25	0.040	1430	12.5×25	0.040	1430	16×31.5	0.034	2300
3300	16×25	0.038	1900	16×31.5	0.034	2300	16×35.5	0.031	2550
4700	16×31.5	0.034	2300	16×35.5	0.031	2550			

WV / Item / μF	35(1V)			50(1H)			63(1J)		
	ΦD×L (mm)	Impedance (Ωmax.) 20℃,100kHz	Ripple current (mA rms) 130℃,100kHz	ΦD×L (mm)	Impedance (Ωmax.) 20℃,100kHz	Ripple current (mA rms) 130℃,100kHz	ΦD×L (mm)	Impedance (Ωmax.) 20℃,100kHz	Ripple current (mA rms) 130℃,100kHz
1				8×11.5	2.5	35			
2.2				8×11.5	1.8	50			
3.3				8×11.5	1.3	70			
4.7				8×11.5	0.85	100			
10				8×11.5	0.60	200			
22				8×11.5	0.35	260			
33				8×11.5	0.28	300	8×11.5	0.40	250
47				8×11.5	0.28	300	10×12.5	0.27	400
100	8×11.5	0.22	360	8×11.5	0.18	520	10×16	0.20	450
220	10×12.5	0.15	620	10×20	0.082	890	12.5×20	0.10	820
330	10×16	0.10	800	12.5×20	0.065	1000	12.5×25	0.072	1000
470	10×20	0.073	960	12.5×25	0.051	1200	16×25	0.069	1500
1000	12×25	0.040	1430	16×31.5	0.037	2180	16×31.5	0.056	1850
2200	16×35.5	0.031	2550	18×35.5	0.029	2800			
3300	18×35.5	0.028	2800						