SURFACE MOUNT ALUMINUM ELECTROLYTIC CAPACITORS



VDA Series

• 150°C 1,000Hrs assured.



- Vertical SMD type.
- Wide Temperature range.
- Suitable to fit for automotive equipment.
- Ecological capacitors are also available.
- · Halogen-free capacitors are also available.

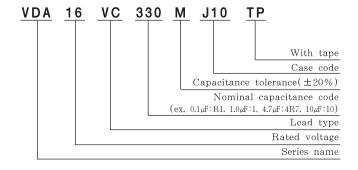




SPECIFICATIONS

Item				Cha	racte	eristics			
Rated Voltage Range						0 Vpc			
Operating Temperature Range				-40		+150 °C			
Capacitance Tolerance					±20	%(M)			(at 20°C, 120Hz)
Leakage Current	$I=0.01$ CV(μ A) or 3μ A, whichever is greater. Where, I:Max. Leakage current(μ A) C:Nominal capacitance(μ F) V:Rated voltage(V_{DC}) (at 20° C, 2 minutes)								
Dissipation Factor(Tan♂)	Rated voltage(Vpc) 1		16	2	25		35 50		
	Tan ∂ (Max.) 0.:		0.20	0.	16	0.14	0.14		(at 20°C, 120Hz)
Temperature Characteristics	Rated voltage(Voc		10	16	2	25	35	50	
(Max. Impedance ratio)	Z(-25°C)/Z(+20°C	or $3\mu A$, whichever is greater. Leakage current(μA) C:Nominal capacitance(μF) V:Rated voltage(Vpc) (at $20^{\circ}C$, 2 re(Vpc) 10 16 25 35 50) 0.24 0.20 0.16 0.14 0.14 (at $20^{\circ}C$) $(4 + 20^{\circ}C)$ 6 4 3 2 2 $(4 + 20^{\circ}C)$ 12 10 8 6 6 6 (appecifications shall be satisfied when the capacitors are restored to $20^{\circ}C$ after the died for 1,000 hours at $150^{\circ}C$. Ange $\leq \pm 30\%$ of the initial value $\leq 300\%$ of the initial specified value $\leq 150^{\circ}C$ without voltage applied. The rated voltage shall be applied to the aminimum of 30 minutes, at least 24 hours and not more than 48 hours before ange $\leq \pm 30\%$ of the initial value							
	$Z(-40^{\circ}C)/Z(+20^{\circ}C)$		12	10		8	6	6	(at 120Hz)
Load Life	voltage is applied for Capacitance change ≦ Tan &	1,000 ho ≤ ±30% ≤ 300%	ours at 1 % of the 5 of the i	50°C. initial va nitial spe	lue ecified	value	citors are r	restored to	20°C after the rated
Shelf Life	The following specifications shall be satisfied when the capacitors are restored to 20°C after exposing them for 1,000 hours at 150°C without voltage applied. The rated voltage shall be applied to the capacitors for a minimum of 30 minutes, at least 24 hours and not more than 48 hours before the measurements. Capacitance change $\leq \pm 30\%$ of the initial value Tan $\delta \leq 300\%$ of the initial specified value Leakage current \leq The initial specified value								
Others	Satisfied characteris	tics KS	C IEC	60384-4					

PART NUMBERING SYSTEM



RATED RIPPLE CURRENT MULTIPLIERS

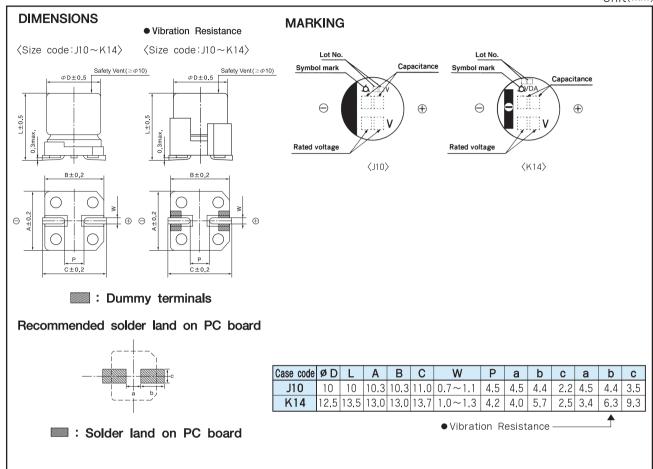
Frequency Multipliers

Freq.(Hz)	120	1K	10K	100K
Factor	1.00	1.36	1.50	1.50

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DIMENSIONS OF VDA Series

Unit(mm)



RATINGS OF VDA Series

V _{DC} #F	1	0	16		25		35		50		
47							J10	90	J10	90	
100					J10	123	J10	132	K14	167	l
220			J10	163	J10	183	K14	249			
330	J10	183	J10	200	K14	285					
470	J10	218	K14	304							
1,000	K14	405									
	A				Rated Case o		e Curr	ent (n	nArms	/150°C	, 120H