

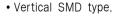
SURFACE MOUNT ALUMINUM ELECTROLYTIC CAPACITORS

MVK Series

• 105°C 1,000~2,000Hrs assured.

Solventproof

WV ≤ 63Vpc



- Wide Temperature range.
- For CD/DVD-ROM, Navigation, LCD MT/TV
- Ecological capacitors are also available.



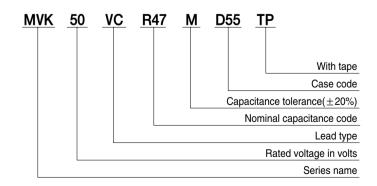


SPECIFICATIONS

Wide Temp.

Item	Characteristics										
Rated Voltage Range				6.3 ~ 45	50 Vpc						
Operating Temperature Range				-40 ~ +	105°C						
Capacitance Tolerance	±20%(M) (at 20°C, 120F										
Leakage Current	Rated Voltage(VDC) 6.3~100							160~450			
	Max. Leakage current	(μA)	0.01CV (μA) (;	or 3μA , ν at 20°C, 2		0.04CV + 100(μA) (at 20°C, 1 minute)					
	When	re, C:Nor	minal capaci	tance(μF),	V:Rated	voltage(Vpd	c)				
	Rated voltage(VDC)	6.3	10	16	25	35 50~1		160~250	400~450		
Dissipation Factor	ø4~ø6.3	0.30	0.24	0.20	0.16	0.14	0.12	-	-		
Tan∂(Max.)	Ø8∼Ø18	0.40	0.30	0.26	0.16	0.14	0.12	0.15	0.20		
	(at 20°C, at 120Hz)										
	Rated voltage(VDC)	6.3	10	16	25	35	50~100	160~250	400~450		
Temperature Characteristics	Z(-25°C)/Z(+20°C)) 4	3	2	2	2	3	3	6		
(Max. Impedance ratio)	Z(-40°C)/Z(+20°C)) 10	8	6	4	3	4	6	10		
	•		'	•		•	•	•	(at 120Hz)		
Load Life	The following specifications shall be satisfied when the capacitors are restored to 20°C after the rated voltage is applied with the following conditions. $ \emptyset \ 4 \sim \emptyset \ 6.3:105^{\circ}C, \ 1,000 \ \text{hours}, \qquad \emptyset \ 8 \sim \emptyset \ 18:105^{\circ}C, \ 2,000 \ \text{hours}. $ Capacitance change $ \emptyset \ 4 \sim \emptyset \ 6.3 \ \leq \ \pm 30\% \ \text{of the initial value} $ $ \emptyset \ 8 \sim \emptyset \ 12.5 \ \leq \ \pm 20\% \ \text{of the initial specified value} $ $ \emptyset \ 4 \sim \emptyset \ 6.3 \ \leq \ 300\% \ \text{of the initial specified value} $ $ \emptyset \ 8 \sim \emptyset \ 12.5 \ \leq \ 200\% \ \text{of the initial specified value} $ Leakage current $ \leq \ \text{The initial specified value} $ Leakage current $ \leq \ \text{The initial specified value} $										
Shelf Life	The following specifications shall be satisfied when the capacitors are restored to 20°C after exposing them for the specified time at 105°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 measurement. $\emptyset \ 4 \sim \emptyset \ 6.3 : 105^{\circ}\text{C}$, 500 hours, $\emptyset \ 8 \sim \emptyset \ 18 : 105^{\circ}\text{C}$, 1,000 hours. Capacitance change $\emptyset \ 4 \sim \emptyset \ 6.3 \le \pm 25\%$ of the initial value $\emptyset \ 8 \sim \emptyset \ 12.5 \le \pm 20\%$ of the initial value $0 \le 0.0\%$ of the initial specified value Leakage current $0 \le 0.0\%$ The initial specified value										
Others	Satisfied characteristic	cs W of K	S C 6421								

PART NUMBERING SYSTEM



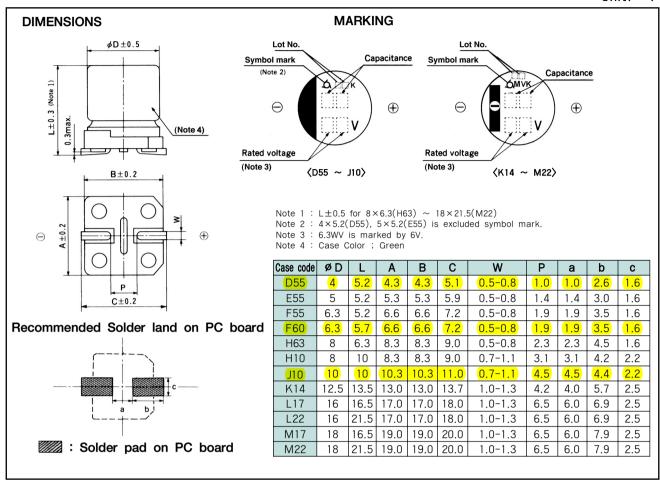
Capacitance	Code
0.1 µ F	R1
0.47 µ F	R47
1.0 µ F	1
4.7 µ F	4R7
10 µ F	10
100 µ F	100

SURFACE MOUNT ALUMINUM ELECTROLYTIC CAPACITORS



DIMENSIONS OF MVK Series(Type:VC)

Unit(mm)



RATINGS OF MVK Series

μF VDC	6.3(OJ) 1		10(10(1A)		16(1C)		25(1E)		35(1V)		50(1H)		63(1J)		100(2A)	
0.1											D55	1.3	D55	1.3			
0.22											D55	2.6	D55	3.0			
0.33											D55	3.2	D55	4.0			
0.47											D55	3.8	D55	5.0			
1											D55	5.6	D55	8.0			
2.2											D55	10	D55	12			
3.3											D55	14	E55	17			
4.7									D55	15	E55	19	E55	20			
10					D55	16	E55	25	E55	25	F55	29	F60	32			
22	D55	21	E55	30	E55	30	F55	40	F55	40	H63	70	H10	60	H10	90	
33	E55	36	E55	34	F55	45	F55	45	H63	80	H10	140	H10	110	J10	120	
47	E55	36	F55	48	F55	48	F60 H63	52 80	H63	140	H10	170	H10	130	K14	250	
100	F55 F60	56	F60 H63	90	F60 H10	110 180	H63 H10	135 180	H10	250	J10	310	K14	380	K14	380	
220	H63	150	H63	150	H10	275	J10	375	J10	375	K14	420	K14	470	M17	750	
330	H10	290	J10	450	J10	450	J10	450	K14	480	K14	500	L17	700	M22	980	
470	J10	460	J10	460	<u>J10</u>	460	J10	460	K14	520	L17	700	M17	900			
1,000	J10	520	J10	540	K14	550	K14	550	L17	750	M22	1200					
1,500	J10	550	K14	620													
2,200	K14	680	L17	850	M17	1000	M22	1300	M22	1450							
3,300	M17	1000	M17	1100	M17	1200			_ A								
4,700	L22	1200	M22	1350					1	T	Rated ripple Current(mArms/105°C, 120Hz)						
6.800	M22	1350									Case code						

μF VDC	160(2C)		200(2D)		250((2E)	400(2G)	450(2W)	
3.3							K14	30	K14	40
4.7					K14	65	L17	60	L17	60
10	J10	45	K14	80	L17	100	L17	85	L17	85
22	K14	85	K14	85	L17	180	M22	130	M22	130
33	K14	95	L17	220	M17	230				
47	L17	260	M17	270	M22	280				
68	M17	320	M22	330	A	A				
100	L22	380			•	1				

Rated ripple Current(mArms/105°C, 120Hz)

Case code