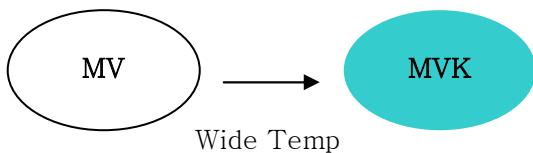


## MVK Series

- 105°C 1,000~ 2,000Hrs assured

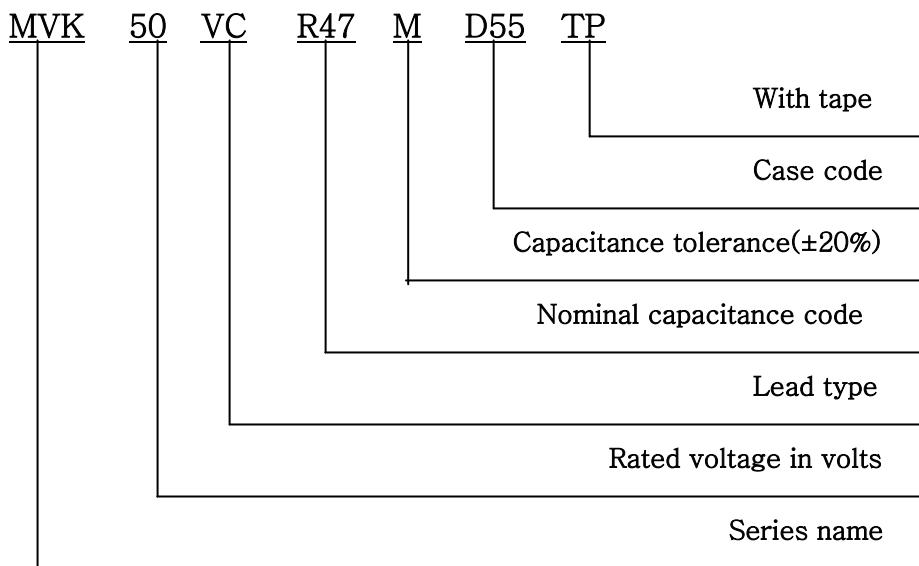
- Vertical SMD type
  - Wide Temperature range
  - For CD/DVD-ROM, Navigation, LCD MT/TV
  - Ecological capacitors are also available.



## SPECIFICATIONS

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. $\varnothing 4 \sim \varnothing 6.3 : 105^\circ\text{C}, 500 \text{ hours.}$ $\varnothing 8 \& \varnothing 12.5 : 105^\circ\text{C}, 1,000 \text{ hours}$ Capacitance change $\varnothing 4 \sim \varnothing 6.3 \leq \pm 25\%$ of the initial value $\varnothing 8 \sim \varnothing 12.5 \leq \pm 20\%$ of the initial value Tanδ $\leq 200\%$ of the initial specified value Leakage current $\leq$ The initial specified value
Others	Satisfied characteristics W of KS C 6421

## PART NUMBERING SYSTEM



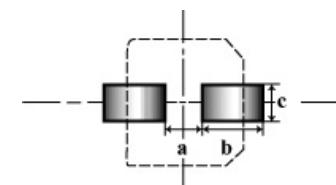
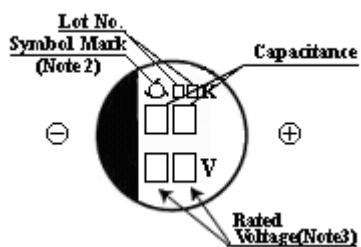
Capacitance	Code
<b>0.1 <math>\mu\text{F}</math></b>	R1
<b>0.47 <math>\mu\text{F}</math></b>	R47
<b>1.0 <math>\mu\text{F}</math></b>	1
<b>4.7 <math>\mu\text{F}</math></b>	4R7
<b>10 <math>\mu\text{F}</math></b>	10
<b>100 <math>\mu\text{F}</math></b>	100

## DIMENSIONS OF MVK Series (Type :VC)

### DIMENSIONS

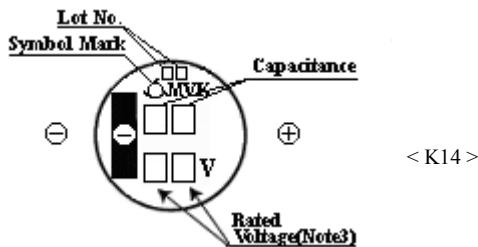
Recommended solder land on PC board

#### Marking

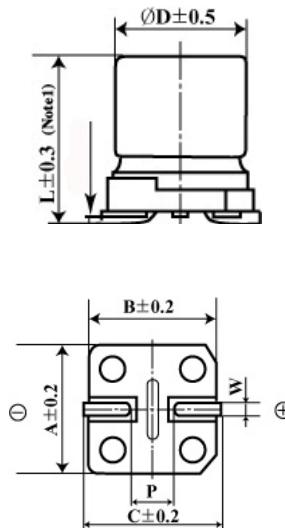


**Sold land on PC board**

< B55 ~ J10 >



< K14 >



Note 1 :  $L + 0.5$  for  $8 \times 6.3$  (H63),  $8 \times 10$  (H10),  $10 \times 10$  (J10)

Note 2 :  $4 \times 5.2$  (D55),  $5 \times 5.2$  (E55) is excluded symbol mark

Note 3 : 6.3WV is marked by 6V.

Case code	$\varnothing D$	L	A	B	C	W	P	a	b	c
D55	4	5.2	4.3	4.3	5.1	0.5–0.8	1.0	1.0	2.6	1.6
E55	5	5.2	5.3	5.3	5.9	0.5–0.8	1.4	1.4	3.0	1.6
F55	6.3	5.2	6.6	6.6	7.2	0.5–0.8	1.9	1.9	3.5	1.6
F60	6.3	5.7	6.6	6.6	7.2	0.5–0.8	1.9	1.9	3.5	1.6
H63	8	6.3	8.3	8.3	9.0	0.5–0.8	2.3	2.3	4.5	1.6
H10	8	10.0	8.3	8.3	9.0	0.7–1.1	3.1	3.1	4.2	2.2
J10	10	10.0	10.3	10.3	11.0	0.7–1.1	4.5	4.5	4.4	2.2
K14	12.5	13.5	13.0	13.0	13.7	1.0–1.3	4.5	4.2	4.0	2.5

## RATINGS OF MVK Series

$\mu F$	$V_{DC}$	6.3(0J)	10(1A)	16(1C)		
0.1						
0.22						
0.33						
0.47						
1						
2.2						
3.3						
4.7						
10					D55	16

22	D55		21		E55		30		E55		30	
33	E55		36		E55		34		F55		45	
47	E55		36		F55		48		F55		48	
100	F55	F60	56		F60	H63	90		F60	H10	110	180
220	H63		150		H63		150		H10		275	
330	H10		290	135	J10		450		J10		450	
470	J10		460		J10		460		J10		460	
1,000	J10		520		J10		540		K14		550	
1,500	J10		550		K14		620					
2,200	K14		680									

$\mu\text{F}$	25(1E)				35(1V)			50(1H)					
0.1								D55		1.3			
0.22								D55		2.6			
0.33								D55		3.2			
0.47								D55		3.8			
1								D55		5.6			
2.2								D55		10			
3.3								D55		14			
4.7					D55	15		E55	19				
10	E55		25		E55	25		F55	29				
22	F55		40		F55	40		H63	70				
33	F55		45		H63	80		H10	140				
47	F60	H63	52	80	H63	140		H10	170				
100	H63	H10	135	180	H10	250		J10	310				
220	J10		375		J10	375		K14	420				
330	J10		450		K14	480		K14	500				
470	J10		460		K14	520		↑	↑				
1,000	K14		550										
1,500													

2,200							
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Case Code —

Rated ripple Current (mA rms/105°C, 120Hz) —

$\mu\text{F}$	V <sub>DC</sub>		160(2C)		200(2D)		250(2E)		400(2G)		450(2W)	
3.3									K14	40	K14	40
4.7							K14	65				
10	J10	45	K14	80								
22	K14	85	K14	85								
33	K14	95										

Rated ripple Current (mA rms/105°C, 120Hz)  
Case code