

# Surface Mount Type Aluminum Electrolytic Capacitors

## V-Chip Type VE

KOME

Surface mount aluminium electrolytic capacitors giving an excellent operational specification within a small package. The VE capacitors offer long life with an endurance test of 2000 hours at 85°C and are available in a wide range of values and voltages, which are listed on the opposite page. Supplied taped and reeled.

### Standard range

- Endurance 2000 hours at 85°C
- Excellent performance/size characteristics
- Suitable for wave & reflow soldering
- Capacitance tolerance  $\pm 20\%$
- Leakage Current  $\leq 0.01CV$
- Supplied taped & reeled

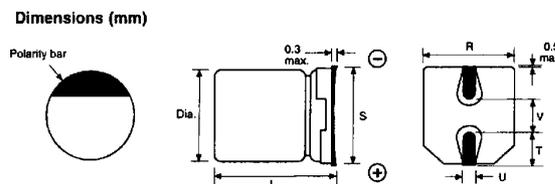


### HOW TO ORDER

KVE	1H	100	M	F6R		
Product Code	Voltage		Tolerance		Size	
VE	0G 4V	Value 100=10 $\mu$ F 101=100 $\mu$ F 221=220 $\mu$ F	F $\pm 1\%$	F6R 4.0X5.8	F7R 5.0X5.8	F8R 6.3X5.8
	0J 6.3V		J $\pm 5\%$			
	1A 10V		M $\pm 20\%$			
	1C 16V					
	1E 25V					
	1V 35V					
	1H 50V					

### Specification

Endurance test 2000 hours at 85°C  
 Capacitance tolerance  $\pm 20\%$  at 120Hz, 20°C  
 Ripple current (as listed) measured at 120Hz, 85°C  
 Operating temperature range -40°C to +85°C  
 Leakage current  $\leq 0.01CV$  or 3 $\mu$ A (whichever is greater) after 2 min.



### Tan $\delta$ (max) at 120Hz, 20°C

Rated voltage	4V	6.3V	10V	16V	25V	35V	50V	d.c.
All case sizes	0.35	0.26	0.20	0.16	0.14	0.12	0.12	d.c.

Case Size	Dia.	L	R	S	T	U	V
4.0 x 5.3	4.0	5.3 $\pm 0.2$	4.3	5.5 max.	1.8	0.65	1.0
5.0 x 5.3	5.0	5.3 $\pm 0.2$	5.3	6.5 max.	2.1	0.65	1.3
6.3 x 5.3	6.3	5.3 $\pm 0.2$	6.6	7.8 max.	2.4	0.65	2.2
6.3 x 7.7	6.3	7.7 $\pm 0.3$	6.6	7.8 max.	2.4	0.65	2.2
8.0 x 10.0	8.0	10.0 $\pm 0.5$	8.4	10.0 max.	3.3	0.9	3.1
10.0 x 10.0	10.0	10.0 $\pm 0.5$	10.4	13.0 max.	3.3	0.9	4.5

### Packaging

Case Size	H	J	K	M	N	P
4.0 x 5.3	12.0	6.0	5.0	8.0	5.5	6.8
5.0 x 5.3	12.0	6.0	6.0	12.0	5.5	6.8
6.3 x 5.3	16.0	7.0	7.0	12.0	7.5	6.8
6.3 x 7.7	16.0	7.0	7.0	12.0	7.5	8.4
8.0 x 10.0	24.0	8.7	8.7	16.0	11.5	11.0
10.0 x 10.0	24.0	10.7	10.7	16.0	11.5	11.0

Case Size	X	Reel Qty.
4.0 x 5.3	14	2000pcs
5.0 x 5.3	14	1000pcs
6.3 x 5.3	18	1000pcs
6.3 x 7.7	18	1000pcs
8.0 x 10.0	26	500pcs
10.0 x 10.0	26	500pcs

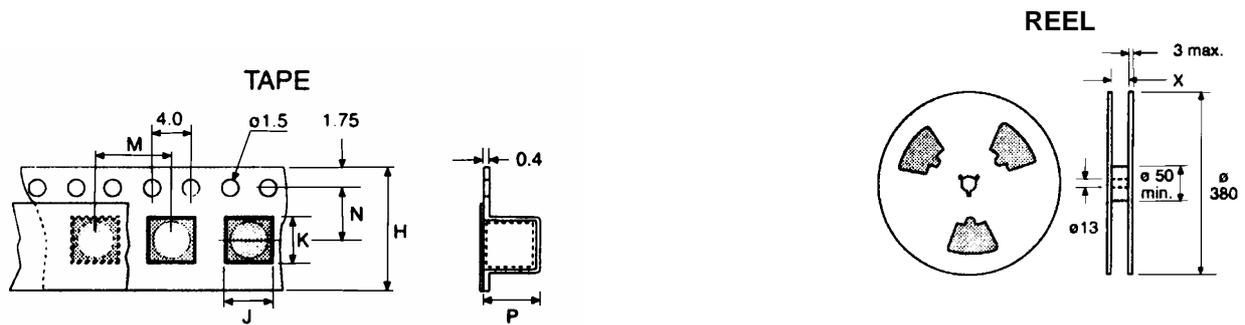
TAPE

REEL

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### Marking

Printed on top surface of case, except case sizes 8.0 x 10.0 and 10.0 x 10.0 which are printed on case sleeve around the body.

Capacitance value, Voltage, Bar to indicate negative terminal

Value ( $\mu$ F)	Ripple Current (mA)	Case Size Dia x L	KOME Part no.	Order code	SPLT pcs
<b>4 Volt</b>					
33	26	4.0 x 5.3	KVE0G330MF1R	KVG330	2000
47	34	4.0 x 5.3	KVE0G470MF1R	KVG470	2000
100	61	5.0 x 5.3	KVE0G101MF2R	KVG101	1000
220	95	6.3 x 5.3	KVE0G221MF3R	KVG221	1000
330	102	6.3 x 7.7	KVE0G331MMR	KVG331	1000
470	150	6.3 x 7.7	KVE0G471MMR	KVG471	1000
<b>6.3Volt</b>					
22	31	4.0 x 5.3	KVE0J220MF1R	KVJ220	2000
33	39	5.0 x 5.3	KVE0J330MF2R	KVJ330	1000
47	47	5.0 x 5.3	KVE0J470MF2R	KVJ470	1000
100	71	6.3 x 5.3	KVE0J101MF3R	KVJ101	1000
220	95	8.0 x 6.5	KVE0J221MMR	KVJ221	1000
330	150	8.0 x 6.5	KVE0J331MMR	KVJ331	1000
470	300	8.0 x 10.0	KVE0J471MF4R	KVJ471	500
1000	330	10.0 x 10.0	KVE0J102MF5R	KVJ102	500
<b>10 Volt</b>					
22	35	5.0 x 5.3	KVE1A220MF2R	KVA220	1000
33	43	5.0 x 5.3	KVE1A330MF2R	KVA330	1000
47	59	6.3 x 5.3	KVE1A470MF3R	KVA470	1000
100	76	6.3 x 5.3	KVE1A101MF3R	KVA101	1000
220	150	8.0 x 6.5	KVE1A221MMR	KVA221	1000
330	280	8.0 x 10.0	KVE1A331MF4R	KVA331	500
470	300	10.0 x 10.0	KVE1A471MF4R	KVA471	500
<b>16 Volt</b>					
10	25	4.0 x 5.3	KVE1C100MF1R	KVC100	2000
22	39	5.0 x 5.3	KVE1C220MF2R	KVC220	1000
33	57	6.3 x 5.3	KVE1C330MF3R	KVC330	1000
47	68	6.3 x 5.3	KVE1C470MF3R	KVC470	1000
100	86	6.3 x 5.3	KVE1C101MF3R	KVC101	1000
220	150	6.3 x 7.7	KVE1C221MMR	KVC221	1000
330	280	8.0 x 10.0	KVE1C331MF4R	KVC331	500
470	330	10.0 x 10.0	KVE1C471MF5R	KVC471	500
<b>25 Volt</b>					
4.7	19	4.0 x 5.3	KVE1E4R7MF1R	KVE4R7	2000
10	26	5.0 x 5.3	KVE1E100MF2R	KVE100	1000
22	52	6.3 x 5.3	KVE1E220MF3R	KVE220	1000
33	63	6.3 x 5.3	KVE1E330MF3R	KVE330	1000
47	68	8.0 x 6.5	KVE1E470MF3R	KVE470	1000
100	130	8.0 x 6.5	KVE1E101MMR	KVE101	1000
220	250	8.0 x 10.0	KVE1E221MF4R	KVE221	500
330	310	10.0 x 10.0	KVE1E331MF4R	KVE331	500

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35 Volt

4.7	20	4.0 x 5.3	KVE1V4R7MF1R	KVX4R7	2000
10	30	5.0 x 5.3	KVE1V100MF2R	KVX100	1000
22	54	6.3 x 5.3	KVE1V220MF3R	KVX220	1000
33	60	6.3 x 5.3	KVE1V330MF3R	KVX330	1000
47	70	8.0 x 10	KVE1V470MF3R	KVX470	1000
100	120	8.0 x 10	KVE1V101MMR	KVX101	1000
220	270	10.0 x 10.0	KVE1V221MF5R	KVX221	500

50 Volt

0.10	1.0	4.0 x 5.3	KVE1H0R1MF1R	KVH0R1	2000
0.22	2.3	4.0 x 5.3	KVE1HR22MF1R	KVHR22	2000
0.33	3.5	4.0 x 5.3	KVE1HR33MF1R	KVHR33	2000
0.47	5.0	4.0 x 5.3	KVE1HR47MF1R	KVHR47	2000
1.0	10	4.0 x 5.3	KVE1H1R0MF1R	KVH1R0	2000
2.2	15	4.0 x 5.3	KVE1H2R2MF1R	KVH2R2	2000
3.3	18	4.0 x 5.3	KVE1H3R3MF1R	KVH3R3	2000
4.7	23	5.0 x 5.3	KVE1H4R7MF2R	KVH4R7	1000
10	34	6.3 x 5.3	KVE1H100MF3R	KVH100	1000
22	45	8.0 x 6.5	KVE1H220MF3R	KVH220	1000
33	85	8.0 x 6.5	KVE1H330MMR	KVH330	1000
47	90	8.0 x 10	KVE1H470MMR	KVH470	1000
100	200	10 x 10.0	KVE1H101MF4R	KVH101	500