

Surface mount aluminium electrolytic capacitors combining low impedance and ESR characteristics within a small package. The VZ series additionally feature a maximum operational temperature specification of 105°C making them especially suitable for switch mode power supplies (SMPS). Available in a wide range of values and voltages, which are listed below, Supplied taped and reeled.

#### Low impedance

- Endurance 2000 hours at 105°C
- Excellent performance/size characteristics
- For switch mode power supplies (SMPS) and industrial electronics
- Suitable for wave & reflow soldering
- Capacitance tolerance  $\pm 20\%$
- Leakage Current  $\leq 0.01\text{CV}$
- Supplied taped & reeled

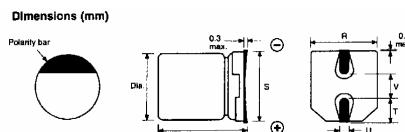


#### HOW TO ORDER

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

#### Specification

- Endurance test  
2000 hours at 105°C  
Capacitance tolerance  
 $\pm 20\%$  at 120Hz, 20°C  
Ripple current (as listed)  
measured at 100kHz, 105°C  
Operating temperature range  
-40°C to +105°C  
Leakage current  
 $\leq 0.01\text{CV}$  or 3μA  
(whichever is greater) after 2 min.



Tan δ (max) at 120Hz , 20°C

Rated voltage	6.3V	10V	16V	25V	35V	d.c.
All case sizes	0.22	0.19	0.16	0.14	0.12	d.c.

Case Size	Dia.	L	R	S	T	U	V
4.0 x 5.8	4.0	5.8 ± 0.2	4.3	5.5 max.	1.8	0.65	1.0
5.0 x 5.8	5.0	5.8 ± 0.2	5.3	6.5 max.	2.1	0.65	1.3
6.3 x 5.8	6.3	5.8 ± 0.2	6.6	7.8 max.	2.4	0.65	2.2
6.3 x 7.7	6.3	7.7 ± 0.2	6.6	7.8 max.	2.4	0.65	2.2

#### Packaging

Case Size	H	J	K	M	N	P
4.0 x 5.8	12.0	5.0	5.0	8.0	5.5	6.4
5.0 x 5.8	12.0	6.0	6.0	12.0	5.5	6.4
6.3 x 5.8	16.0	7.0	7.0	12.0	7.5	6.4
6.3 x 7.7	16.0	7.0	7.0	12.0	7.5	6.4

Case Size	X	Reel Qty.
4.0 x 5.8	14	2000pcs
5.0 x 5.8	14	1000pcs
6.3 x 5.8	18	1000pcs
6.3 x 7.7	18	1000pcs

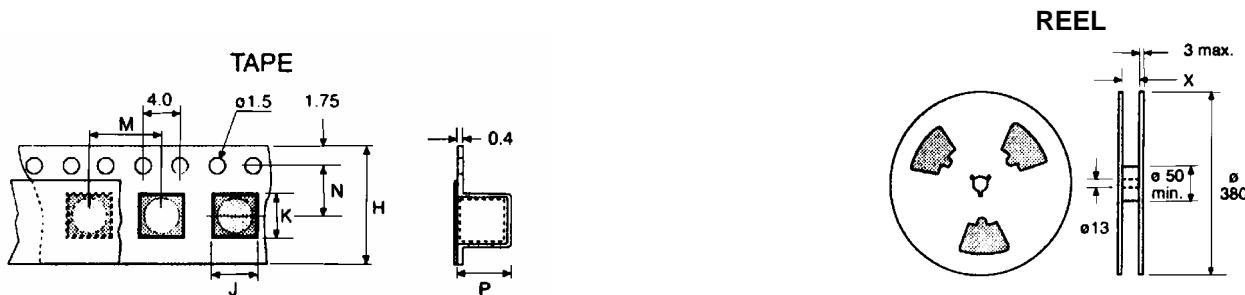
TAPE

REEL

# Surface Mount Type Aluminum Electrolytic Capacitor

V-CHIP Type VZ Low ESR, 105°C

KOME



## Marking

Printed on top surface of case.

Capacitance value

Voltage

Bar to indicate negative terminal

Value ( $\mu$ F)	Ripple Current (mA)	Impedance ( $\Omega$ )	Case Size	KOME Part no.	Order code	SPLT pcs
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### 6.3 Volt

22	50	5.0	4.0 x 5.8	KVZ0J220MF6R	KZJ220	2000
33	80	2.6	5.0 x 5.8	KVZ0J330MF7R	KZJ330	1000
47	80	2.6	5.0 x 5.8	KVZ0J470MF7R	KZJ470	1000
100	115	1.3	6.3 x 5.8	KVZ0J101MF8R	KZJ101	1000
220	150	0.8	6.3 x 7.7	KVZ0J221MF9R	KZJ221	1000

### 10 Volt

22	80	2.6	5.0 x 5.8	KVZ1A220MF7R	KZA220	1000
33	80	2.6	5.0 x 5.8	KVZ1A330MF7R	KZA330	1000
47	115	1.3	6.3 x 5.8	KVZ1A470MF8R	KZA470	1000
100	150	0.8	6.3 x 7.7	KVZ1A101MF9R	KZA101	1000

### 16 Volt

10	50	5.0	4.0 x 5.8	KVZ1C100MF6R	KZC100	2000
22	80	2.6	5.0 x 5.8	KVZ1C220MF7R	KZC220	1000
33	115	1.3	6.3 x 5.8	KVZ1C330MF8R	KZC330	1000
47	115	1.3	6.3 x 5.8	KVZ1C470MF8R	KZC470	1000
100	150	0.8	6.3 x 7.7	KVZ1C101MF9R	KZC101	1000

### 25 Volt

4.7	50	5.0	4.0 x 5.8	KVZ1E4R7MF6R	KZE4R7	2000
10	80	2.6	5.0 x 5.8	KVZ1E100MF7R	KZE100	1000
22	115	1.3	6.3 x 5.8	KVZ1E220MF8R	KZE220	1000
33	115	1.3	6.3 x 5.8	KVZ1E330MF8R	KZE330	1000
47	150	0.8	6.3 x 7.7	KVZ1E470MF9R	KZE470	1000

### 35 Volt

1.0	50	5.0	4.0 x 5.8	KVZ1V1R0MF6R	KZV1R0	2000
2.2	50	5.0	4.0 x 5.8	KVZ1V2R2MF6R	KZV2R2	2000
3.3	50	5.0	4.0 x 5.8	KVZ1V3R3MF6R	KZV3R3	2000
4.7	50	5.0	4.0 x 5.8	KVZ1V4R7MF6R	KZV4R7	2000
10	80	2.6	5.0 x 5.8	KVZ1V100MF7R	KZV100	1000
22	115	1.3	6.3 x 5.8	KVZ1V220MF8R	KZV220	1000
33	115	1.3	6.3 x 7.7	KVZ1V330MF9R	KZV330	1000
47	150	0.8	6.3 x 7.7	KVZ1V470MF9R	KZV470	1000