

AKZ Series

Features

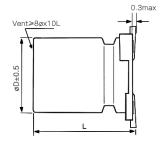
- Extra low impedance capacitors (5% ~ 20% lower than AFZ Series)
- · Designed for reflow soldering
- · Designed for surface mounting on high-density PCB
- Vibration resistant structure
- RoHS 2.0 compliant, 247 REACH&SVHC compliant
- AEC-Q200 compliant, Please contact Jarson for more details, test data, information

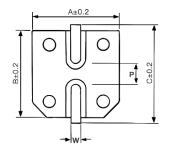


Marking color: Black

Specifications										
Category temp. range	−55°C to +105°C									
Capacitance tolerance	±20% (120 Hz / +20 ℃)									
Leakage current	$I \le 0.01$ CV or 3 μA whichever is greater (after 2 minutes)									
Tanδ	Please see the attached characteristics list									
Characteristics at low	Rated voltage (V)	6.3	10	16	25	35	50			
	Z(-25°C)/Z(+20°C)	4	3	2	2	2	2	Impedance ratio at 120 Hz		
temperature	Z (-55 °C) / Z (+20 °C)	8	5	4	3	3	3			
	After applying rated working voltage for 2000 hours at +105 $^{\circ}$ C \pm 2 $^{\circ}$ C, and then being stabilized at +20 $^{\circ}$ C,									
	capacitors shall meet the following limits.									
Endurance	Capacitance change Within ±30% of the initial value									
	Dissipation factor (tan δ) Less than 300% of the initial value									
	Leakage current Within the initial limit									
Shelf life	After storage for 1000 h at +105 $^{\circ}$ C ± 2 $^{\circ}$ C with no voltage applied and then being stabilized at +20 $^{\circ}$ C,									
	capacitors shall meet the limits specified in endurance.									
	After reflow soldering and then being stabilized at +20 °C, capacitors shall meet the following limits.									
Resistance to	Capacitance change	pacitance change Within ±10% of the initial value								
soldering heat	Dissipation factor (tan δ)	factor (tan δ) Within the initial limit								
	Leakage current	Within the initial limit								
Frequency correction	Frequency	50	Hz	120	OHz		1kHz	10kHz≦		
factor for ripple current	Correction Factor	0	.6	0	.7		0.85	1.0		

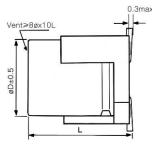
Dimensions:

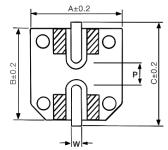




Dimensions Unit: mm									
φD	L	Α	В	С	W	P±0.2			
4	5.8±0.4	4.3	4.3	5.1	0.5~0.8	1.0			
5	5.8±0.4	5.3	5.3	6.0	0.5~0.8	1.4			
6.3	5.8±0.4	6.6	6.6	7.3	0.5~0.8	2.0			
6.3	7.7±0.4	6.6	6.6	7.3	0.5~0.8	2.0			
8	6.5±0.5	8.3	8.3	9.1	0.7~1.3	3.1			
8	10.5±0.5	8.3	8.3	9.1	0.7~1.3	3.1			
10	10.5±0.5	10.3	10.3	11.1	0.7~1.3	4.4			

Vibration resistant structure:







Marking: Part Number System:

Negative Aluminum E-Caps KZ series 16V $220 \mu F$ ±20 % $6.3 \phi x7.7L$ polarity marking 100 Rated voltage **1C** ΚZ 221 Μ Α 0607 35V

Product category Series name Rated voltage Capacitance Capacitance tolerance Case Size

Characteristics list										
Datad	Camaaitamaa	Case size		Sp	ecification			Taping&Reel		
Rated voltage (V)	Capacitance (±20%) (µF)	øD (mm)	L (mm)	Rated ripple current① (mA rms)	Imp.② (Ω)	tan δ③	Part Number④	MPQ (pcs/reel)		
	22	4	5.8	90	1.35	0.26	AKZ0J220M0406	2000		
	33	4	5.8	90	1.35	0.26	AKZ0J330M0406	2000		
	47	5	5.8	160	0.70	0.26	AKZ0J470M0506	1000		
	68	6.3	5.8	240	0.36	0.26	AKZ0J680M0606	1000		
	100	6.3	5.8	240	0.36	0.26	AKZ0J101M0606	1000		
	150	6.3	5.8	240	0.36	0.26	AKZ0J151M0606	1000		
6.3	220	6.3	5.8	240	0.36	0.26	AKZ0J221M0606	1000		
0.5		6.3	7.7	290	0.32	0.26	AKZ0J331M0607	1000		
	330	8	6.5	300	0.26	0.26	AKZ0J331M0806	1000		
		8	10.5	600	0.16	0.26	AKZ0J331M0810	500		
	470	8	10.5	600	0.16	0.26	AKZ0J471M0810	500		
	680	8	10.5	600	0.16	0.26	AKZ0J681M0810	500		
	1000	8	10.5	600	0.16	0.26	AKZ0J102M0810	500		
	1500	10	10.5	850	0.08	0.26	AKZ0J152M1010	500		
	22	4	5.8	90	1.35	0.19	AKZ1A220M0406	2000		
	33	5	5.8	160	0.70	0.19	AKZ1A330M0506	1000		
	47	6.3	5.8	240	0.36	0.19	AKZ1A470M0606	1000		
	68	6.3	5.8	240	0.36	0.19	AKZ1A680M0606	1000		
	100	6.3	5.8	240	0.36	0.19	AKZ1A101M0606	1000		
10	150	6.3	5.8	240	0.36	0.19	AKZ1A151M0606	1000		
10	220	6.3	7.7	290	0.32	0.19	AKZ1A221M0607	1000		
		8	6.5	300	0.26	0.19	AKZ1A221M0806	1000		
	330	8	10.5	600	0.16	0.19	AKZ1A331M0810	500		
	470	8	10.5	600	0.16	0.19	AKZ1A471M0810	500		
	680	10	10.5	850	0.08	0.19	AKZ1A681M1010	500		
	1000	10	10.5	850	0.08	0.19	AKZ1A102M1010	500		
	10	4	5.8	90	1.35	0.16	AKZ1C100M0406	2000		
	22	5	5.8	160	0.70	0.16	AKZ1C220M0506	1000		
	33	6.3	5.8	240	0.36	0.16	AKZ1C330M0606	1000		
	47	6.3	5.8	240	0.36	0.16	AKZ1C470M0606	1000		
16	68	6.3	5.8	240	0.36	0.16	AKZ1C680M0606	1000		
	100	6.3	5.8	240	0.36	0.16	AKZ1C101M0606	1000		
	150	6.3	7.7	290	0.32	0.16	AKZ1C151M0607	1000		
	220	6.3	7.7	290	0.32	0.16	AKZ1C221M0607	1000		
		8	6.5	300	0.26	0.16	AKZ1C221M0806	1000		
	330	8	10.5	600	0.16	0.16	AKZ1C331M0810	500		
	470	8	10.5	600	0.16	0.16	AKZ1C471M0810	500		
		10	10.5	850	0.08	0.16	AKZ1C471M1010	500		
-	680	10	10.5	850	0.08	0.16	AKZ1C681M1010	500		

① Rated ripple current (100kHz / +105°C) ② Impedance (100kHz / +20°C) ③ $\tan \delta$ (120Hz / +20°C)

 [@] For automotive, the Part Number is appended with "a" at the end.

 @ For Vibration resistant structure, the Part Number is appended with "v" at the end.

 @ Please refer to the page of reflow conditions for reflow profile.



Characteristics list										
Rated	Capacitance (±20%) (µF)	Case size		Sp	ecification			Taping&Reel		
voltage (V)		øD (mm)	L (mm)	Rated ripple current① (mA rms)	lmp.② (Ω)	tan δ③	Part Number ④	MPQ (pcs/reel)		
	10	4	5.8	90	1.35	0.14	AKZ1E100M0406	2000		
	22	5	5.8	160	0.70	0.14	AKZ1E220M0506	1000		
	33	6.3	5.8	240	0.36	0.14	AKZ1E330M0606	1000		
	47	6.3	5.8	240	0.36	0.14	AKZ1E470M0606	1000		
	68	6.3	5.8	240	0.36	0.14	AKZ1E680M0606	1000		
25	100	6.3	7.7	290	0.32	0.14	AKZ1E101M0607	1000		
	100	8	6.5	330	0.26	0.14	AKZ1E101M0806	1000		
	150	8	10.5	600	0.16	0.14	AKZ1E151M0810	500		
	220	8	10.5	600	0.16	0.14	AKZ1E221M0810	500		
	330	8	10.5	600	0.16	0.14	AKZ1E331M0810	500		
	680	10	10.5	850	0.08	0.14	AKZ1E681M1010	500		
	4.7	4	5.8	90	1.35	0.12	AKZ1V4R7M0406	2000		
	10	5	5.8	160	0.70	0.12	AKZ1V100M0506	1000		
35	22	6.3	5.8	240	0.36	0.12	AKZ1V220M0606	1000		
	33	6.3	5.8	240	0.36	0.12	AKZ1V330M0606	1000		
	47	6.3	5.8	240	0.36	0.12	AKZ1V470M0606	1000		
	68	6.3	7.7	290	0.32	0.12	AKZ1V680M0607	1000		
		8	6.5	300	0.26	0.12	AKZ1V680M0806	1000		
	100	6.3	7.7	290	0.32	0.12	AKZ1V101M0607	1000		
		8	10.5	600	0.16	0.12	AKZ1V101M0810	500		
	150	8	10.5	600	0.16	0.12	AKZ1V151M0810	500		
	220	10	10.5	850	0.08	0.12	AKZ1V221M1010	500		
	330	10	10.5	850	0.08	0.12	AKZ1V331M1010	500		
50	150	8	10.5	350	0.34	0.10	AKZ1H151M0810	500		
	330	10	10.5	670	0.18	0.10	AKZ1H331M1010	500		

 $[\]textcircled{1} \ \ \, \text{Rated ripple current (100kHz / +105°C)} \quad \textcircled{2} \ \, \text{Impedance (100kHz / +20°C)} \quad \textcircled{3} \ \, \text{tan } \delta \ \, \text{(120Hz / +20°C)}$