ALZ Series

Features

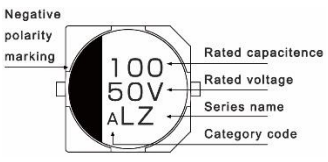
- φ4 ~ φ12.5, 105℃, 2000 hours assured
- Low impedance capacitors
- Designed for reflow soldering
- Designed for surface mounting on high-density PCB
- RoHS 2.0 compliant, 247 REACH&SVHC compliant
- AEC-Q200 compliant, Please contact Jarson for more details, test data, information

Marking color: Black

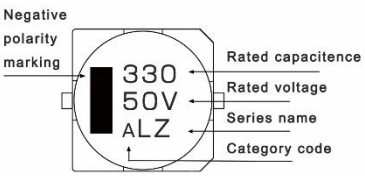
Specifications								
Category temp. range	–55℃ to +105℃							
Capacitance tolerance	±20% (120 Hz / +20 ℃)							
Leakage current	I ≦ 0.01 CV or 3 μA whichever is greater (after 2 minutes)							
Tan δ	Please see the attached characteristics list							
Characteristics at low temperature	Rated voltage (V)	6.3	10	16	25	35	50	Impedance ratio at 120 Hz
	Z(-25 ℃)/Z(+20 ℃)	4	3	2	2	2	2	
	Z(-55 ℃)/Z(+20 ℃)	10	7	5	3	3	3	
Endurance	After applying rated working voltage for 2000 hours at +105 ℃ ± 2 ℃, and then being stabilized at +20 ℃, capacitors shall meet the following limits.							
	Capacitance change	Within ±25% of the initial value						
	Dissipation factor (tan δ)	Less than 250% of the initial value						
	Leakage current	Within the initial limit						
Shelf life	After storage for 1000 h at +105 ℃ ± 2 ℃ with no voltage applied and then being stabilized at +20 ℃, capacitors shall meet the limits specified in endurance.							
Resistance to soldering heat	After reflow soldering and then being stabilized at +20 ℃, capacitors shall meet the following limits.							
	Capacitance change	Within ±10% of the initial value						
	Dissipation factor (tan δ)	Within the initial limit						
	Leakage current	Within the initial limit						
Frequency correction factor for ripple current	Frequency	50Hz	120Hz	1kHz	10kHz≦			
	Correction Factor	0.6	0.75	0.9	1.0			

Marking:

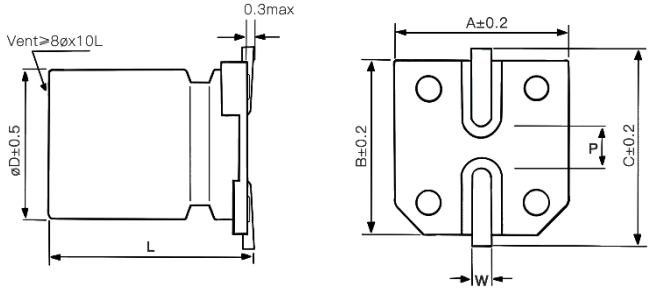
φD ≦ 10mm



φD ≧ 12.5mm



Dimensions:



Dimensions						Unit: mm
φD	L	A	B	C	W	P±0.2
4	5.7±0.3	4.3	4.3	5.1	0.5~0.8	1.0
5	5.7±0.3	5.3	5.3	6.0	0.5~0.8	1.4
6.3	5.7±0.3	6.6	6.6	7.3	0.5~0.8	2.0
6.3	7.7±0.3	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	7.7±0.5	10.3	10.3	11.1	0.7~1.3	4.4
10	10.5±0.5	10.3	10.3	11.1	0.7~1.3	4.4
10	13±0.5	10.3	10.3	11.1	0.7~1.2	4.4
12.5	13.5±0.5	13.0	13.0	14.0	1.1~1.4	4.4
12.5	16±0.5	13.0	13.0	14.0	1.1~1.4	4.4

Part Number System:

SMD Aluminum E-Caps	LZ series	16V	220μF	±20 %	6.3 φ x7.7L
A	**LZ**	**1C**	**221**	**M**	**0607**
Product category	Series name	Rated voltage	Capacitance	Capacitance tolerance	Case Size

Characteristics list

Rated voltage (V)	Capacitance (±20%) (μF)	Case size		Specification			Part Number④	Taping&Reel
		øD (mm)	L (mm)	Rated ripple current① (mA rms)	Imp.② (Ω)	tan δ③		MPQ (pcs/reel)
6.3	22	4	5.7	65	3.20	0.28	ALZ0J220M0406	2000
	33	4	5.7	65	3.20	0.28	ALZ0J330M0406	2000
		5	5.7	110	1.50	0.28	ALZ0J330M0506	1000
	47	5	5.7	110	1.50	0.28	ALZ0J470M0506	1000
	100	5	5.7	110	1.50	0.28	ALZ0J101M0506	1000
		6.3	5.7	170	0.85	0.28	ALZ0J101M0606	1000
	220	6.3	5.7	170	0.85	0.28	ALZ0J221M0606	1000
		6.3	7.7	255	0.50	0.28	ALZ0J221M0607	1000
	330	6.3	7.7	255	0.50	0.28	ALZ0J331M0607	1000
	470	6.3	7.7	255	0.50	0.28	ALZ0J471M0607	1000
		8	10.5	450	0.45	0.28	ALZ0J471M0810	500
	820	8	10.5	450	0.45	0.28	ALZ0J681M0810	500
		10	10.5	670	0.25	0.28	ALZ0J681M1010	500
	1000	10	10.5	670	0.25	0.28	ALZ0J102M1010	500
	1500	10	10.5	670	0.25	0.28	ALZ0J152M1010	500
	2200	12.5	13.5	820	0.16	0.34	ALZ0J222M1313	200
10	10	4	5.7	65	3.20	0.24	ALZ1A100M0406	2000
	22	4	5.7	65	3.20	0.24	ALZ1A220M0406	2000
		5	5.7	110	1.50	0.24	ALZ1A220M0506	1000
	33	5	5.7	110	1.50	0.24	ALZ1A330M0506	1000
	47	5	5.7	110	1.50	0.24	ALZ1A470M0506	1000
		6.3	5.7	170	0.85	0.24	ALZ1A470M0606	1000
	100	5	5.7	110	1.50	0.24	ALZ1A101M0506	1000
		6.3	5.7	170	0.85	0.24	ALZ1A101M0606	1000
	150	6.3	5.7	170	0.85	0.24	ALZ1A151M0606	1000
	220	6.3	5.7	170	0.85	0.24	ALZ1A221M0606	1000
		6.3	7.7	255	0.50	0.24	ALZ1A221M0607	1000
		8	10.5	450	0.45	0.24	ALZ1A221M0810	500
	330	6.3	7.7	255	0.50	0.24	ALZ1A331M0607	1000
		8	10.5	450	0.45	0.24	ALZ1A331M0810	500
	470	8	10.5	450	0.45	0.24	ALZ1A471M0810	500
	1000	10	10.5	670	0.25	0.24	ALZ1A102M1010	500
	2200	12.5	13.5	820	0.16	0.28	ALZ1A222M1313	200

① Rated ripple current (100kHz / +105℃) ② Impedance (100kHz / +20℃) ③ tan δ (120Hz / +20℃)

④ For automotive, the Part Number is appended with "a" at the end.

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

Characteristics list

Rated voltage (V)	Capacitance (±20%) (μF)	Case size		Specification			Part Number④	Taping&Reel
		øD (mm)	L (mm)	Rated ripple current① (mA rms)	Imp.② (Ω)	tan δ③		MPQ (pcs/reel)
16	10	4	5.7	65	3.20	0.20	ALZ1C100M0406	2000
	22	4	5.7	65	3.20	0.20	ALZ1C220M0406	2000
		5	5.7	110	1.50	0.20	ALZ1C220M0506	1000
	33	5	5.7	110	1.50	0.20	ALZ1C330M0506	1000
		6.3	5.7	170	0.85	0.20	ALZ1C330M0606	1000
	47	5	5.7	110	1.50	0.20	ALZ1C470M0506	1000
		6.3	5.7	170	0.85	0.20	ALZ1C470M0606	1000
	100	6.3	5.7	170	0.85	0.20	ALZ1C101M0606	1000
		6.3	7.7	255	0.50	0.20	ALZ1C101M0607	1000
		8	6.5	255	0.50	0.20	ALZ1C101M0806	1000
	150	6.3	7.7	255	0.50	0.20	ALZ1C151M0607	1000
		8	10.5	450	0.45	0.20	ALZ1C151M0810	500
	220	6.3	7.7	255	0.50	0.20	ALZ1C221M0607	1000
		8	6.5	255	0.50	0.20	ALZ1C221M0806	1000
		8	10.5	450	0.45	0.20	ALZ1C221M0810	500
	330	8	10.5	450	0.45	0.20	ALZ1C331M0810	500
		10	7.7	450	0.45	0.20	ALZ1C331M1007	500
	470	8	10.5	450	0.45	0.20	ALZ1C471M0810	500
		10	10.5	670	0.25	0.20	ALZ1C471M1010	500
	680	10	10.5	670	0.25	0.20	ALZ1C681M1010	500
	1000	10	10.5	670	0.25	0.20	ALZ1C102M1010	500
		10	13	750	0.20	0.20	ALZ1C102M1013	400
	1500	12.5	13.5	820	0.16	0.22	ALZ1C152M1313	200
25	4.7	4	5.7	65	3.20	0.16	ALZ1E4R7M0406	2000
	10	4	5.7	65	3.20	0.16	ALZ1E100M0406	2000
		5	5.7	110	1.50	0.16	ALZ1E100M0506	1000
	22	5	5.7	110	1.50	0.16	ALZ1E220M0506	1000
		6.3	5.7	170	0.85	0.16	ALZ1E220M0606	1000
	33	6.3	5.7	170	0.85	0.16	ALZ1E330M0606	1000
	47	6.3	5.7	170	0.85	0.16	ALZ1E470M0606	1000
	100	6.3	7.7	255	0.50	0.16	ALZ1E101M0607	1000
		8	10.5	450	0.45	0.16	ALZ1E101M0810	500
	150	8	10.5	450	0.45	0.16	ALZ1E151M0810	500
	220	8	10.5	450	0.45	0.16	ALZ1E221M0810	500
		10	7.7	450	0.45	0.16	ALZ1E221M1007	500
		10	10.5	670	0.25	0.16	ALZ1E221M1010	500
	330	8	10.5	450	0.45	0.16	ALZ1E331M0810	500
		10	10.5	670	0.25	0.16	ALZ1E331M1010	500
	470	10	10.5	670	0.25	0.16	ALZ1E471M1010	500
	680	10	13	750	0.20	0.16	ALZ1E681M1013	400
	1000	12.5	13.5	820	0.16	0.20	ALZ1E102M1313	200

① Rated ripple current (100kHz / +105℃) ② Impedance (100kHz / +20℃) ③ tan δ (120Hz / +20℃)

④ For automotive，the Part Number is appended with "a" at the end.

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

Characteristics list

Rated voltage (V)	Capacitance (±20%) (μF)	Case size		Specification			Part Number④	Taping&Reel
		øD (mm)	L (mm)	Rated ripple current① (mA rms)	Imp.② (Ω)	tan δ③		MPQ (pcs/reel)
35	4.7	4	5.7	65	3.20	0.14	ALZ1V4R7M0406	2000
	10	4	5.7	65	3.20	0.14	ALZ1V100M0406	2000
		5	5.7	110	1.50	0.14	ALZ1V100M0506	1000
	22	5	5.7	110	1.50	0.14	ALZ1V220M0506	1000
		6.3	5.7	170	0.85	0.14	ALZ1V220M0606	1000
	33	6.3	5.7	170	0.85	0.14	ALZ1V330M0606	1000
	47	6.3	5.7	170	0.85	0.14	ALZ1V470M0606	1000
		6.3	7.7	255	0.50	0.14	ALZ1V470M0607	1000
		8	6.5	255	0.50	0.14	ALZ1V470M0806	1000
		8	10.5	450	0.45	0.14	ALZ1V470M0810	500
	100	6.3	7.7	255	0.50	0.14	ALZ1V101M0607	1000
		8	6.5	255	0.50	0.14	ALZ1V101M0806	1000
		8	10.5	450	0.45	0.14	ALZ1V101M0810	500
	150	8	10.5	450	0.45	0.14	ALZ1V151M0810	500
		10	7.7	450	0.45	0.14	ALZ1V151M1007	500
	220	8	10.5	450	0.45	0.14	ALZ1V221M0810	500
		10	10.5	670	0.25	0.14	ALZ1V221M1010	500
	330	10	10.5	670	0.25	0.14	ALZ1V331M1010	500
	470	10	13	750	0.20	0.14	ALZ1V471M1013	400
	680	12.5	13.5	820	0.15	0.16	ALZ1V681M1313	200
50	1	4	5.7	30	5.00	0.12	ALZ1H010M0406	2000
	2.2	4	5.7	30	5.00	0.12	ALZ1H2R2M0406	2000
	3.3	4	5.7	30	5.00	0.12	ALZ1H3R3M0406	2000
	4.7	4	5.7	30	5.00	0.12	ALZ1H4R7M0406	2000
		5	5.7	50	3.00	0.12	ALZ1H4R7M0506	1000
	10	5	5.7	50	3.00	0.12	ALZ1H100M0506	1000
		6.3	5.7	70	2.00	0.12	ALZ1H100M0606	1000
	22	6.3	5.7	70	2.00	0.12	ALZ1H220M0606	1000
		6.3	7.7	170	1.00	0.12	ALZ1H220M0607	1000
		8	6.5	170	1.00	0.12	ALZ1H220M0806	1000
	33	6.3	7.7	170	1.00	0.12	ALZ1H330M0607	1000
		8	10.5	300	0.60	0.12	ALZ1H330M0810	500
	47	6.3	7.7	170	1.00	0.12	ALZ1H470M0607	1000
		8	6.5	170	1.00	0.12	ALZ1H470M0806	1000
		8	10.5	300	0.60	0.12	ALZ1H470M0810	500
	100	8	10.5	300	0.60	0.12	ALZ1H101M0810	500
		10	7.7	300	0.60	0.12	ALZ1H101M1007	500
		10	10.5	500	0.30	0.12	ALZ1H101M1010	500
	150	10	10.5	500	0.30	0.12	ALZ1H151M1010	500
	220	10	10.5	500	0.30	0.12	ALZ1H221M1010	500
	330	12.5	13.5	650	0.25	0.15	ALZ1H331M1313	200

① Rated ripple current (100kHz / +105℃) ② Impedance (100kHz / +20℃) ③ tan δ (120Hz / +20℃)

④ For automotive，the Part Number is appended with "a" at the end.

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