

ARZ Series

Features

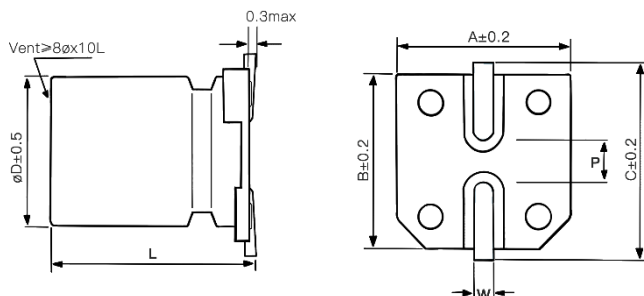
- $\phi 5 \sim \phi 10$, 105°C, 2000 hours assured
- Impedance 30% ~ 50% lower than AFZ Series
- High rated ripple current, Ultra low impedance capacitors
- Designed for reflow soldering
- Designed for surface mounting on high-density PCB
- RoHS 2.0 compliant, 247 REACH&SVHC compliant
- AEC-Q200 compliant, 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 ℃)	8	5	4	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 ±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 ℃ ± 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	Frequency	50Hz		120Hz		1kHz		10kHz≤
factor for ripple current	Correction factor	0.6		0.7		0.85		1.0

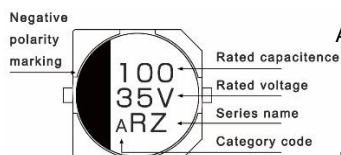
Dimensions:



Dimensions						Unit: mm
ϕD	L	A	B	C	W	P ± 0.2
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
10	13 ± 0.5	10.3	10.3	11.1	0.7~1.3	4.4

Marking:

Part Number System:



Aluminum E-Caps	RZ series	16V	220 μF	±20 %	6.3 ϕ x 7.7L
A	RZ	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	47	5	5.8	240	0.36	0.30	ARZ0J470M0506	1000
	100	5	5.8	240	0.36	0.30	ARZ0J101M0506	1000
		6.3	5.8	300	0.26	0.30	ARZ0J101M0606	1000
	220	6.3	5.8	300	0.26	0.30	ARZ0J221M0606	1000
	330	6.3	7.7	600	0.16	0.30	ARZ0J331M0607	1000
		8	6.5	500	0.18	0.30	ARZ0J331M0806	1000
	470	8	10.5	850	0.08	0.30	ARZ0J471M0810	500
	680	8	10.5	850	0.08	0.30	ARZ0J681M0810	500
10	1500	10	10.5	1190	0.06	0.30	ARZ0J152M1010	500
	2200	10	13	1190	0.06	0.32	ARZ0J222M1013	400
	33	5	5.8	240	0.36	0.26	ARZ1A330M0506	1000
	100	5	5.8	240	0.36	0.26	ARZ1A101M0506	1000
	150	6.3	5.8	300	0.26	0.26	ARZ1A151M0606	1000
	220	6.3	7.7	600	0.16	0.26	ARZ1A221M0607	1000
		8	6.5	500	0.18	0.26	ARZ1A221M0806	1000
	330	8	10.5	850	0.08	0.26	ARZ1A331M0810	500
16	470	8	10.5	850	0.08	0.26	ARZ1A471M0810	500
	680	8	10.5	850	0.08	0.26	ARZ1A681M0810	500
	1000	10	10.5	1190	0.06	0.26	ARZ1A102M1010	500
	1500	10	13	1190	0.06	0.26	ARZ1A152M1013	400
	22	5	5.8	240	0.36	0.22	ARZ1C220M0506	1000
	47	5	5.8	240	0.36	0.22	ARZ1C470M0506	1000
		6.3	5.8	300	0.26	0.22	ARZ1C470M0606	1000
	68	6.3	5.8	300	0.26	0.22	ARZ1C680M0606	1000
	100	6.3	5.8	300	0.26	0.22	ARZ1C101M0606	1000
		6.3	7.7	600	0.16	0.22	ARZ1C101M0607	1000
	150	6.3	7.7	600	0.16	0.22	ARZ1C151M0607	1000
	220	6.3	7.7	600	0.16	0.22	ARZ1C221M0607	1000
		8	6.5	500	0.18	0.22	ARZ1C221M0806	1000
		8	10.5	850	0.08	0.22	ARZ1C221M0810	500
	330	8	10.5	850	0.08	0.22	ARZ1C331M0810	500
	470	8	10.5	850	0.08	0.22	ARZ1C471M0810	500
	680	10	10.5	1190	0.06	0.22	ARZ1C681M1010	500
	820	10	10.5	1190	0.06	0.22	ARZ1C821M1010	500
	1000	10	10.5	1190	0.06	0.22	ARZ1C102M1013	500

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

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)
25	22	5	5.8	240	0.36	0.16	ARZ1E220M0506	1000
	33	5	5.8	240	0.36	0.16	ARZ1E330M0506	1000
		6.3	5.8	300	0.26	0.16	ARZ1E330M0606	1000
	47	6.3	5.8	300	0.26	0.16	ARZ1E470M0606	1000
	68	6.3	5.8	300	0.26	0.16	ARZ1E680M0606	1000
	100	6.3	7.7	600	0.16	0.16	ARZ1E101M0607	1000
		8	6.5	500	0.18	0.16	ARZ1E101M0806	1000
	150	8	10.5	850	0.08	0.16	ARZ1E151M0810	500
	220	8	10.5	850	0.08	0.16	ARZ1E221M0810	500
35	470	10	10.5	1190	0.06	0.16	ARZ1E471M1010	500
	560	10	10.5	1190	0.06	0.16	ARZ1E561M1010	500
	22	5	5.8	240	0.36	0.13	ARZ1V220M0506	1000
	33	6.3	5.8	300	0.26	0.13	ARZ1V330M0606	1000
	47	6.3	5.8	300	0.26	0.13	ARZ1V470M0606	1000
	68	6.3	7.7	600	0.16	0.13	ARZ1V680M0607	1000
	100	6.3	7.7	600	0.16	0.13	ARZ1V101M0607	1000
		8	10.5	850	0.08	0.13	ARZ1V101M0810	500
	150	8	10.5	850	0.08	0.13	ARZ1V151M0810	500
50	330	10	10.5	1190	0.06	0.13	ARZ1V331M1010	500
	390	10	10.5	1190	0.06	0.13	ARZ1V391M1010	500
	100	8	10.5	670	0.18	0.10	ARZ1H101M0810	500
	220	10	10.5	900	0.12	0.10	ARZ1H221M1010	500

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

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