

ARX Series

Features

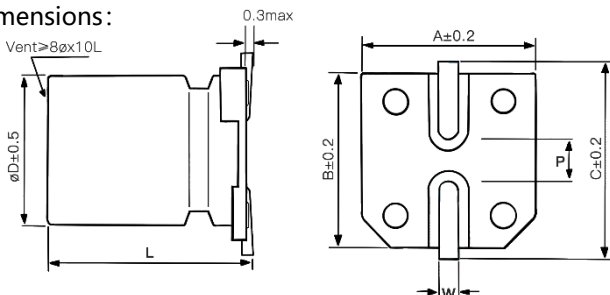
- $\phi 4 \sim \phi 10$, 105°C, 2000 hours assured
- Miniaturized, Ultra Low Impedance (Capacitance more than ARZ Series)
- Designed for reflow soldering
- Designed for surface mounting on high-density PCB
- Vibration resistant structure
- RoHS 2.0 compliant, 247 REACH&SVHC compliant
- AEC-Q200 compliant, Please contact Jarson for more details, test data, information



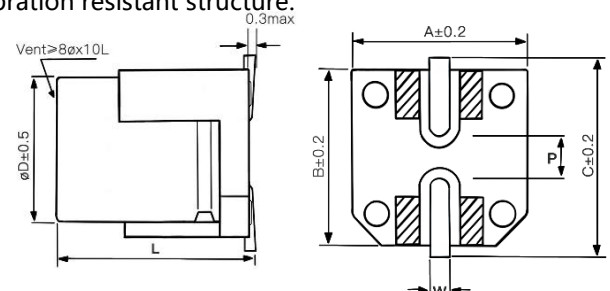
Marking color: Black

Specifications								
Category temp. range	-55℃ 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 200% 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≤	
	C ≤ 470μF	0.5	0.65		0.85		1.0	
	C > 470μF	0.55	0.7		0.9		1.0	

Dimensions:



Vibration resistant structure:



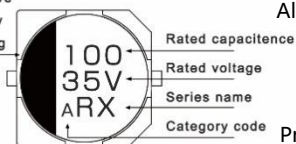
: Aid electrode

Dimensions						Unit: mm
ϕD	L	A	B	C	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

Marking:

Part Number System:

Negative
polarity
marking



Aluminum E-Caps RX series 25V 220μF ±20 % 6.3Φx7.7L

A **RX** **1E** **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	100	4	5.8	160	0.85	0.26	ARX0J101M0406	2000
	220	5	5.8	240	0.36	0.26	ARX0J221M0506	1000
	330	6.3	5.8	300	0.26	0.26	ARX0J331M0606	1000
	470	6.3	7.7	600	0.16	0.26	ARX0J471M0607	1000
	680	6.3	7.7	600	0.16	0.26	ARX0J681M0607	1000
	1500	8	10.5	850	0.08	0.28	ARX0J152M0810	500
	2200	10	10.5	1190	0.06	0.32	ARX0J222M1010	500
10	68	4	5.8	160	0.85	0.19	ARX1A680M0406	2000
	150	5	5.8	240	0.36	0.19	ARX1A151M0506	1000
	220	6.3	5.8	300	0.26	0.19	ARX1A221M0606	1000
	330	6.3	7.7	600	0.16	0.19	ARX1A331M0607	1000
	470	6.3	7.7	600	0.16	0.19	ARX1A471M0607	1000
	1000	8	10.5	850	0.08	0.21	ARX1A102M0810	500
	1500	10	10.5	1190	0.06	0.21	ARX1A152M1010	500
16	47	4	5.8	160	0.85	0.16	ARX1C470M0406	2000
	68	5	5.8	240	0.36	0.16	ARX1C680M0506	1000
	100	5	5.8	240	0.36	0.16	ARX1C101M0506	1000
	150	6.3	5.8	300	0.26	0.16	ARX1C151M0606	1000
	220	6.3	5.8	300	0.26	0.16	ARX1C221M0606	1000
	330	6.3	7.7	600	0.16	0.16	ARX1C331M0607	1000
	470	8	6.5	600	0.16	0.16	ARX1C471M0806	1000
	680	8	10.5	850	0.08	0.16	ARX1C681M0810	500
	820	8	10.5	850	0.08	0.16	ARX1C821M0810	500
	1000	10	10.5	1190	0.06	0.18	ARX1C102M1010	500
	1200	10	10.5	1190	0.06	0.18	ARX1C122M1010	500
25	22	4	5.8	160	0.85	0.14	ARX1E220M0406	2000
	33	4	5.8	160	0.85	0.14	ARX1E330M0406	2000
	47	5	5.8	240	0.36	0.14	ARX1E470M0506	1000
	68	5	5.8	240	0.36	0.14	ARX1E680M0506	1000
	100	6.3	5.8	300	0.26	0.14	ARX1E101M0606	1000
	150	6.3	7.7	600	0.16	0.14	ARX1E151M0607	1000
	220	6.3	7.7	600	0.16	0.14	ARX1E221M0607	1000
	390	8	10.5	850	0.08	0.14	ARX1E391M0810	500
	470	8	10.5	850	0.08	0.14	ARX1E471M0810	500
	560	8	10.5	850	0.08	0.14	ARX1E561M0810	500
	820	10	10.5	1190	0.06	0.14	ARX1E821M1010	500
	1000	10	10.5	1190	0.06	0.16	ARX1E102M1010	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. ⑤ 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 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	22	4	5.8	160	0.85	0.12	ARX1V220M0406	2000
	33	5	5.8	240	0.36	0.12	ARX1V330M0506	1000
	47	5	5.8	240	0.36	0.12	ARX1V470M0506	1000
	68	6.3	5.8	300	0.26	0.12	ARX1V680M0606	1000
	100	6.3	5.8	300	0.26	0.12	ARX1V101M0606	1000
	150	6.3	7.7	600	0.16	0.12	ARX1V151M0607	1000
	330	8	10.5	850	0.08	0.12	ARX1V331M0810	500
	390	8	10.5	850	0.08	0.12	ARX1V391M0810	500
	470	10	10.5	1190	0.06	0.12	ARX1V471M1010	500
	560	10	10.5	1190	0.06	0.12	ARX1V561M1010	500
	680	10	10.5	1190	0.06	0.12	ARX1V681M1010	500
50	10	4	5.8	85	2.30	0.10	ARX1H100M0406	2000
		5	5.8	165	0.88	0.10	ARX1H100M0506	1000
	22	5	5.8	165	0.88	0.10	ARX1H220M0506	1000
	47	6.3	5.8	195	0.68	0.10	ARX1H470M0606	1000
	100	6.3	7.7	350	0.34	0.10	ARX1H101M0607	1000
	220	8	10.5	670	0.18	0.10	ARX1H221M0810	500
	330	10	10.5	900	0.12	0.10	ARX1H331M1010	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. ⑤ 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.