

ART Series

Features

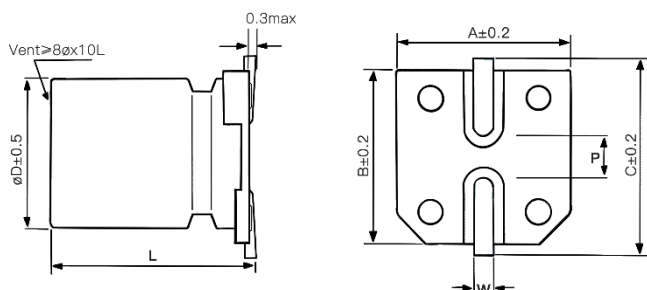
- $\phi 4 \sim \phi 10$, 105°C, 2000 hours assured
- Miniaturized Products (1 size smaller than XT Series)
- Designed for reflow soldering
- Designed for surface mounting on high-density PCB
- RoHS 2.0 compliant, 247 REACH&SVHC compliant
- AEC-Q200 compliant, Please contact Jarson for more details, test data, information



Marking color: Black

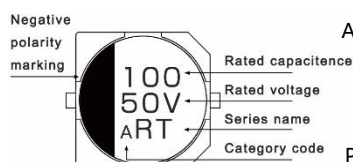
Specifications								
Category temp. range	-55℃ to +105℃							
Capacitance tolerance	±20% (120 Hz / +20 ℃)							
Leakage current	$I \leq 0.01 CV$ or 3 μA whichever is greater (after 2 minutes)							
Tan δ	Please see the attached characteristics list							
Characteristics at low temperature	Rated 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	6	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 factor for ripple current	Frequency	50Hz	120Hz		1kHz		10kHz≤	
	$C \leq 1000\mu F$	0.7	1.0		1.2		1.3	
	$C > 1000\mu F$	0.8	1.0		1.1		1.2	

Dimensions:



Dimensions						Unit: mm
ϕD	L	A	B	C	W	$P \pm 0.2$
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	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:

Aluminum E-Caps	RT series	25V	220 μF	±20 %	6.3 ϕ x 7.7L
A	RT	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 Number③	Taping&Reel
		øD (mm)	L (mm)	Rated ripple current① (mA rms)	tan δ②		MPQ (pcs/reel)
6.3	100	4	5.7	60	0.30	ART0J101M0406	2000
	220	5	5.7	95	0.30	ART0J221M0506	1000
	330	6.3	5.7	180	0.30	ART0J331M0606	1000
	470	6.3	5.7	180	0.30	ART0J471M0606	1000
		6.3	7.7	360	0.30	ART0J471M0607	1000
	680	6.3	7.7	360	0.30	ART0J681M0607	1000
	1500	8	10.5	510	0.34	ART0J152M0810	500
10	2200	10	10.5	710	0.36	ART0J222M1010	500
	68	4	5.7	60	0.26	ART1A680M0406	2000
	150	5	5.7	95	0.26	ART1A151M0506	2000
	220	6.3	5.7	180	0.26	ART1A221M0606	1000
	330	6.3	7.7	360	0.26	ART1A331M0607	1000
	470	6.3	7.7	360	0.26	ART1A471M0607	1000
	1000	8	10.5	510	0.28	ART1A102M0810	500
16	1500	10	10.5	710	0.28	ART1A152M1010	500
	47	4	5.7	60	0.22	ART1C470M0406	2000
	68	5	5.7	95	0.22	ART1C680M0506	1000
	100	5	5.7	95	0.22	ART1C101M0506	1000
	150	6.3	5.7	120	0.22	ART1C151M0606	1000
	220	6.3	5.7	180	0.22	ART1C221M0606	1000
	330	6.3	7.7	360	0.22	ART1C331M0607	1000
	470	8	6.5	360	0.24	ART1C471M0806	1000
	680	8	10.5	510	0.24	ART1C681M0810	500
	820	8	10.5	510	0.24	ART1C821M0810	500
	1000	10	10.5	710	0.26	ART1C102M1010	500
25	1200	10	10.5	710	0.26	ART1C122M1010	500
	22	4	5.7	55	0.20	ART1E220M0406	2000
	33	4	5.7	60	0.20	ART1E330M0406	2000
	47	5	5.7	95	0.20	ART1E470M0506	1000
	68	5	5.7	95	0.20	ART1E680M0506	1000
	100	6.3	5.7	120	0.20	ART1E101M0606	1000
	150	6.3	7.7	240	0.20	ART1E151M0607	1000
	220	6.3	7.7	360	0.20	ART1E221M0607	1000
	390	8	10.5	510	0.22	ART1E391M0810	500
	470	8	10.5	510	0.22	ART1E471M0810	500
	560	8	10.5	510	0.22	ART1E561M0810	500
	820	10	10.5	710	0.22	ART1E821M1010	500
	1000	10	10.5	710	0.24	ART1E102M1010	500

① Rated ripple current (120Hz / +105°C) ② tan δ (120Hz / +20°C) ③ 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 Number ^③	Taping&Reel
		øD (mm)	L (mm)	Rated ripple current ^① (mA rms)	tan δ ^②		MPQ (pcs/reel)
35	22	4	5.7	55	0.18	ART1V220M0406	2000
	33	5	5.7	85	0.18	ART1V330M0506	1000
	47	5	5.7	95	0.18	ART1V470M0506	1000
	68	6.3	5.7	120	0.18	ART1V680M0606	1000
	100	6.3	5.7	120	0.18	ART1V101M0606	1000
	150	6.3	7.7	240	0.18	ART1V151M0607	1000
	330	8	10.5	510	0.20	ART1V331M0810	500
	390	8	10.5	510	0.20	ART1V391M0810	500
	470	10	10.5	660	0.20	ART1V471M1010	500
	560	10	10.5	660	0.20	ART1V561M1010	500
	680	10	10.5	710	0.20	ART1V681M1010	500
50	10	4	5.7	30	0.16	ART1H100M0406	2000
		5	5.7	55	0.16	ART1H100M0506	1000
	22	5	5.7	55	0.16	ART1H220M0506	1000
	47	6.3	5.7	75	0.16	ART1H470M0606	1000
	100	6.3	7.7	140	0.16	ART1H101M0607	1000
	220	8	10.5	400	0.18	ART1H221M0810	500
	330	10	10.5	450	0.18	ART1H331M1010	500

① Rated ripple current (120Hz / +105°C) ② tan δ (120Hz / +20°C) ③ For automotive, the Part Number is appended with "a" at the end.

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