

AXT Series

Features

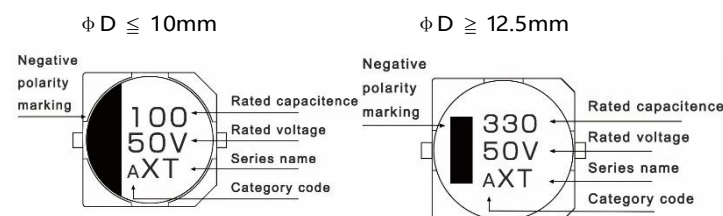
- $\phi 4 \sim \phi 12.5$, 105°C, 2000 hours assured
- Designed for reflow soldering
- Designed for surface mounting on high-density PCB
- RoHS 2.0 compliant, 247 REACH&SVHC compliant
- AEC-Q200 compliant, Please contact Jarson for more details, test data, information



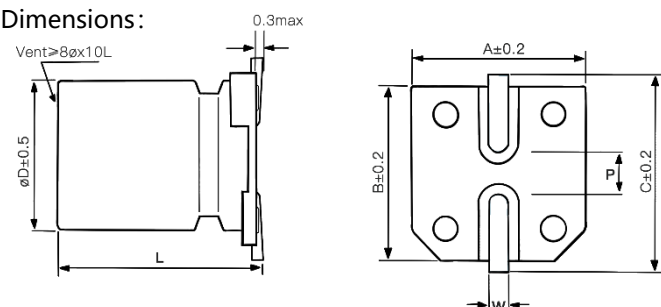
Marking color: Black

Specifications										
Category temp. range	-55℃ to +105℃									
Capacitance tolerance	±20% (120 Hz / +20 ℃)									
Leakage current	$I \leq 0.01 \text{ CV}$ 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	63	100	Impedance ratio at 120 Hz
	Z (-25 ℃) / Z (+20 ℃)	4	4	3	2	2	2	2	3	
	Z (-55 ℃) / Z (+20 ℃)	12	8	6	4	3	3	3	4	
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	$\phi D \leq 6.3\text{mm}$: Within ±25% of the initial value $\phi D \geq 8\text{mm}$: Within ±20% of the initial value								
	Dissipation factor (tan δ)	$\phi D \leq 6.3\text{mm}$: Less than 300% of the initial value $\phi D \geq 8\text{mm}$: 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≤	
	$C \leq 1000\mu\text{F}$	0.7			1.0		1.2		1.3	
	$C > 1000\mu\text{F}$	0.8			1.0		1.1		1.2	

Marking:



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	0.7~1.3	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

XT series

16V

220μF

±20 %

6.3 φ x7.7L

A
XT
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 Number③	Taping&Reel
		øD (mm)	L (mm)	Rated ripple current① (mA rms)	tan δ②		MPQ (pcs/reel)
6.3	22	4	5.7	22	0.45	AXT0J220M0406	2000
	33	5	5.7	34	0.45	AXT0J330M0506	1000
	47	5	5.7	38	0.45	AXT0J470M0506	1000
	100	5	5.7	44	0.45	AXT0J101M0506	1000
		6.3	5.7	69	0.45	AXT0J101M0606	1000
	220	6.3	5.7	75	0.45	AXT0J221M0606	1000
		6.3	7.7	120	0.45	AXT0J221M0607	1000
	330	6.3	7.7	120	0.45	AXT0J331M0607	1000
		8	6.5	120	0.45	AXT0J331M0806	1000
		8	10.5	290	0.45	AXT0J331M0810	500
	470	6.3	7.7	120	0.45	AXT0J471M0607	1000
		8	10.5	320	0.45	AXT0J471M0810	500
10	1000	10	10.5	410	0.45	AXT0J102M1010	500
	2200	12.5	13.5	680	0.42	AXT0J222M1313	200
	3300	12.5	16	850	0.44	AXT0J332M1316	200
	22	4	5.7	22	0.35	AXT1A220M0406	2000
	33	5	5.7	34	0.35	AXT1A330M0506	1000
	47	5	5.7	38	0.35	AXT1A470M0506	1000
	100	5	5.7	40	0.35	AXT1A101M0506	1000
		6.3	5.7	69	0.35	AXT1A101M0606	1000
		8	6.5	90	0.35	AXT1A101M0806	1000
	150	6.3	5.7	80	0.35	AXT1A151M0606	1000
	220	6.3	5.7	80	0.35	AXT1A221M0606	1000
		6.3	7.7	120	0.35	AXT1A221M0607	1000
		8	6.5	120	0.35	AXT1A221M0806	1000
	330	6.3	7.7	125	0.35	AXT1A331M0607	1000
		8	10.5	290	0.35	AXT1A331M0810	500
	470	8	10.5	320	0.35	AXT1A471M0810	500
		10	7.7	320	0.35	AXT1A471M1007	500
	1000	10	10.5	410	0.35	AXT1A102M1010	500
	2200	12.5	13.5	680	0.40	AXT1A222M1313	200

① Rated ripple current (120Hz / +105℃) ② tan δ (120Hz / +20℃) 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 Number③	Taping&Reel
		øD (mm)	L (mm)	Rated ripple current① (mA rms)	tan δ②		MPQ (pcs/reel)
16	10	4	5.7	20	0.28	AXT1C100M0406	2000
	22	4	5.7	22	0.28	AXT1C220M0406	2000
		5	5.7	30	0.28	AXT1C220M0506	1000
	33	5	5.7	34	0.28	AXT1C330M0506	1000
		6.3	5.7	43	0.28	AXT1C330M0606	1000
	47	5	5.7	39	0.28	AXT1C470M0506	1000
		6.3	5.7	48	0.28	AXT1C470M0606	1000
	100	6.3	5.7	70	0.28	AXT1C101M0606	1000
		8	6.5	120	0.28	AXT1C101M0806	1000
	220	6.3	7.7	120	0.28	AXT1C221M0607	1000
		8	6.5	120	0.28	AXT1C221M0806	1000
		8	10.5	270	0.28	AXT1C221M0810	500
	330	8	10.5	290	0.28	AXT1C331M0810	500
		10	7.7	290	0.28	AXT1C331M1007	500
	470	8	10.5	300	0.28	AXT1C471M0810	500
		10	10.5	380	0.28	AXT1C471M1010	500
	1000	10	10.5	380	0.28	AXT1C102M1010	500
		10	13	400	0.28	AXT1C102M1013	400
		12.5	13.5	500	0.34	AXT1C102M1313	200
25	4.7	4	5.7	17	0.18	AXT1E4R7M0406	2000
	10	4	5.7	20	0.18	AXT1E100M0406	2000
		5	5.7	27	0.18	AXT1E100M0506	1000
	22	5	5.7	30	0.18	AXT1E220M0506	1000
		6.3	5.7	44	0.18	AXT1E220M0606	1000
	33	5	5.7	35	0.18	AXT1E330M0506	1000
		6.3	5.7	46	0.18	AXT1E330M0606	1000
	47	6.3	5.7	48	0.18	AXT1E470M0606	1000
		8	6.5	79	0.18	AXT1E470M0806	1000
	100	6.3	7.7	100	0.18	AXT1E101M0607	1000
		8	6.5	100	0.18	AXT1E101M0806	1000
		8	10.5	210	0.18	AXT1E101M0810	500
	220	8	10.5	270	0.18	AXT1E221M0810	500
		10	7.7	270	0.18	AXT1E221M1007	500
	330	8	10.5	290	0.18	AXT1E331M0810	500
		10	10.5	370	0.18	AXT1E331M1010	500
	470	10	10.5	380	0.18	AXT1E471M1010	500
	1000	12.5	13.5	500	0.26	AXT1E102M1313	200
		12.5	16	550	0.26	AXT1E102M1316	200

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

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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)
35	4.7	4	5.7	17	0.16	AXT1V4R7M0406	2000
	10	4	5.7	20	0.16	AXT1V100M0406	2000
		5	5.7	27	0.16	AXT1V100M0506	1000
	22	5	5.7	30	0.16	AXT1V220M0506	1000
		6.3	5.7	44	0.16	AXT1V220M0606	1000
	33	6.3	5.7	46	0.16	AXT1V330M0606	1000
		8	6.5	76	0.16	AXT1V330M0806	1000
	47	6.3	5.7	50	0.16	AXT1V470M0606	1000
		6.3	7.7	80	0.16	AXT1V470M0607	1000
		8	6.5	80	0.16	AXT1V470M0806	1000
	100	6.3	7.7	95	0.16	AXT1V101M0607	1000
		8	10.5	240	0.16	AXT1V101M0810	500
		10	7.7	240	0.16	AXT1V101M1007	500
	150	8	10.5	250	0.16	AXT1V151M0810	500
	220	8	10.5	270	0.16	AXT1V221M0810	500
		10	10.5	330	0.16	AXT1V221M1010	500
	330	10	10.5	370	0.16	AXT1V331M1010	500
		10	13	430	0.16	AXT1V331M1013	400
	470	10	10.5	380	0.16	AXT1V471M1010	500
		10	13	430	0.16	AXT1V471M1013	400
		12.5	13.5	520	0.22	AXT1V471M1313	200
50	1	4	5.7	8	0.14	AXT1H010M0406	2000
	2.2	4	5.7	12	0.14	AXT1H2R2M0406	2000
	3.3	4	5.7	14	0.14	AXT1H3R3M0406	2000
	4.7	4	5.7	16	0.14	AXT1H4R7M0406	2000
		5	5.7	20	0.14	AXT1H4R7M0506	1000
	10	5	5.7	24	0.14	AXT1H100M0506	1000
		6.3	5.7	32	0.14	AXT1H100M0606	1000
	22	6.3	5.7	38	0.14	AXT1H220M0606	1000
		6.3	7.7	58	0.14	AXT1H220M0607	1000
		8	6.5	67	0.14	AXT1H220M0806	1000
	33	6.3	7.7	65	0.14	AXT1H330M0607	1000
		8	6.5	70	0.14	AXT1H330M0806	1000
	47	6.3	7.7	70	0.14	AXT1H470M0607	1000
		8	6.5	80	0.14	AXT1H470M0806	1000
		8	10.5	170	0.14	AXT1H470M0810	500
	100	8	10.5	210	0.14	AXT1H101M0810	500
		10	7.7	210	0.14	AXT1H101M1007	500
		10	10.5	310	0.14	AXT1H101M1010	500
	220	10	10.5	330	0.14	AXT1H221M1010	500
		10	13	400	0.14	AXT1H221M1013	400
	330	12.5	13.5	490	0.18	AXT1H331M1313	200
	470	12.5	16	550	0.18	AXT1H471M1316	200

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.

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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)
63	1	4	5.7	8	0.12	AXT1J010M0406	2000
	2.2	4	5.7	12	0.12	AXT1J2R2M0406	2000
	3.3	5	5.7	17	0.12	AXT1J3R3M0506	1000
		6.3	5.7	22	0.12	AXT1J3R3M0606	1000
	4.7	6.3	5.7	22	0.12	AXT1J4R7M0606	1000
	10	6.3	5.7	32	0.12	AXT1J100M0606	1000
		8	6.5	51	0.12	AXT1J100M0806	1000
	22	6.3	7.7	58	0.12	AXT1J220M0607	1000
		8	6.5	58	0.12	AXT1J220M0806	1000
		8	10.5	100	0.12	AXT1J220M0810	500
	33	8	10.5	140	0.12	AXT1J330M0810	500
	47	8	10.5	170	0.12	AXT1J470M0810	500
		10	10.5	200	0.12	AXT1J470M1010	500
	100	10	10.5	310	0.12	AXT1J101M1010	500
		10	13	340	0.12	AXT1J101M1013	400
		12.5	13.5	380	0.14	AXT1J101M1313	200
	220	12.5	13.5	470	0.14	AXT1J221M1313	200
100	4.7	5	5.7	15	0.12	AXT2A4R7M0506	1000
		6.3	5.7	21	0.12	AXT2A4R7M0606	1000
		6.3	7.7	35	0.12	AXT2A4R7M0607	1000
	10	6.3	7.7	35	0.12	AXT2A100M0607	1000
		8	10.5	80	0.12	AXT2A100M0810	500
	22	8	10.5	100	0.12	AXT2A220M0810	500
		10	10.5	130	0.12	AXT2A220M1010	500
	33	10	10.5	150	0.12	AXT2A330M1010	500
	47	10	10.5	160	0.12	AXT2A470M1010	500
		10	13	200	0.12	AXT2A470M1013	400
		12.5	13.5	250	0.12	AXT2A470M1313	200
	100	12.5	13.5	380	0.12	AXT2A101M1313	200

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

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