

AXS Series

Features

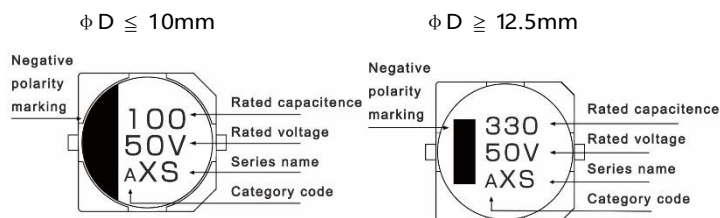
- $\phi 4 \sim \phi 12.5$, 85°C, 2000 hours assured
- Designed for reflow soldering
- Designed for surface mounting on high-density PCB
- RoHS 2.0 compliant, 247 REACH&SVHC compliant
- AEC-Q200 compliant, Please contact Jarson for more details, test data, information



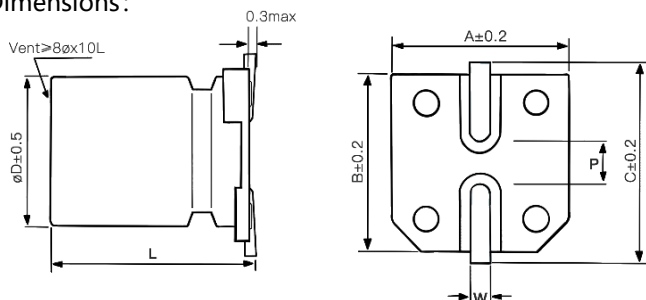
Marking color: Black

Specifications										
Category temp. range	-40℃ to +85℃									
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	2	
	Z (-40 ℃) / Z (+20 ℃)	8	6	4	3	3	3	3	3	
Endurance	After applying rated working voltage for 2000 hours at +85 ℃ ± 2 ℃, and then being stabilized at +20 ℃, capacitors shall meet the following limits.									
	Capacitance change	Within ±20% 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 +85 ℃ ± 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≤ 1000μF	0.7		1.0		1.2		1.3		
	C> 1000μF	0.8		1.0		1.1		1.2		

Marking:



Dimensions:



Dimensions						Unit: mm
ϕD	L	A	B	C	W	P±0.2
4	5.4±0.3	4.3	4.3	5.1	0.5~0.8	1.0
5	5.4±0.3	5.3	5.3	6.0	0.5~0.8	1.4
6.3	5.4±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

AXS series

16V

220μF

±20 %

6.3 φ x7.7L

A
XS
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	5.4	26	0.35	AXS0J220M0405	2000
	33	4	5.4	31	0.35	AXS0J330M0405	2000
	47	4	5.4	34	0.35	AXS0J470M0405	2000
		5	5.4	55	0.35	AXS0J470M0505	1000
	68	5	5.4	58	0.35	AXS0J680M0505	1000
		6.3	5.4	89	0.35	AXS0J680M0605	1000
	100	5	5.4	58	0.35	AXS0J101M0505	1000
		6.3	5.4	89	0.35	AXS0J101M0605	1000
	220	6.3	5.4	89	0.35	AXS0J221M0605	1000
		6.3	7.7	124	0.35	AXS0J221M0607	1000
	330	6.3	7.7	124	0.35	AXS0J331M0607	1000
		8	6.5	190	0.35	AXS0J331M0806	1000
	470	6.3	7.7	124	0.35	AXS0J471M0607	1000
		8	10.5	290	0.35	AXS0J471M0810	500
	680	10	7.7	290	0.35	AXS0J681M1007	500
	1000	8	10.5	290	0.35	AXS0J102M0810	500
		10	10.5	430	0.35	AXS0J102M1010	500
10	2200	12.5	13.5	890	0.40	AXS0J222M1313	200
	3300	12.5	16	1000	0.42	AXS0J332M1316	200
	10	4	5.4	26	0.30	AXS1A100M0405	2000
	22	4	5.4	26	0.30	AXS1A220M0405	2000
		5	5.4	44	0.30	AXS1A220M0505	1000
	33	4	5.4	31	0.30	AXS1A330M0405	2000
		5	5.4	55	0.30	AXS1A330M0505	1000
	47	5	5.4	55	0.30	AXS1A470M0505	1000
		6.3	5.4	75	0.30	AXS1A470M0605	1000
	68	5	5.4	58	0.30	AXS1A680M0505	1000
		6.3	5.4	89	0.30	AXS1A680M0605	1000
	100	5	5.4	58	0.30	AXS1A101M0505	1000
		6.3	5.4	89	0.30	AXS1A101M0605	1000
	220	6.3	5.4	89	0.30	AXS1A221M0605	1000
		6.3	7.7	124	0.30	AXS1A221M0607	1000
		8	6.5	175	0.30	AXS1A221M0806	1000
		8	10.5	270	0.30	AXS1A221M0810	500
	330	6.3	7.7	124	0.30	AXS1A331M0607	1000
		8	10.5	290	0.30	AXS1A331M0810	500
	470	6.3	7.7	110	0.30	AXS1A471M0607	1000
		8	10.5	290	0.30	AXS1A471M0810	500
		10	7.7	290	0.30	AXS1A471M1007	500
		10	10.5	400	0.30	AXS1A471M1010	500
	680	10	10.5	410	0.30	AXS1A681M1010	500
	1000	10	10.5	430	0.30	AXS1A102M1010	500
	2200	12.5	13.5	890	0.36	AXS1A222M1313	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	5.4	26	0.24	AXS1C100M0405	2000
	22	4	5.4	30	0.24	AXS1C220M0405	2000
		5	5.4	44	0.24	AXS1C220M0505	1000
	33	5	5.4	55	0.24	AXS1C330M0505	1000
	47	5	5.4	55	0.24	AXS1C470M0505	1000
		6.3	5.4	75	0.24	AXS1C470M0605	1000
	68	6.3	5.4	89	0.24	AXS1C680M0605	1000
	100	6.3	5.4	89	0.24	AXS1C101M0605	1000
		6.3	7.7	109	0.24	AXS1C101M0607	1000
		8	6.5	125	0.24	AXS1C101M0806	1000
	220	6.3	7.7	124	0.24	AXS1C221M0607	1000
		8	6.5	124	0.24	AXS1C221M0806	1000
		8	10.5	270	0.24	AXS1C221M0810	500
	330	8	10.5	290	0.24	AXS1C331M0810	500
		10	7.7	290	0.24	AXS1C331M1007	500
	470	8	10.5	290	0.24	AXS1C471M0810	500
		10	10.5	400	0.24	AXS1C471M1010	500
	680	10	10.5	410	0.24	AXS1C681M1010	500
	1000	10	10.5	370	0.24	AXS1C102M1010	500
		10	13	430	0.24	AXS1C102M1013	400
		12.5	13.5	750	0.32	AXS1C102M1313	200
25	4.7	4	5.4	26	0.18	AXS1E4R7M0405	2000
	10	4	5.4	26	0.18	AXS1E100M0405	2000
		5	5.4	44	0.18	AXS1E100M0505	1000
	22	5	5.4	47	0.18	AXS1E220M0505	1000
		6.3	5.4	59	0.18	AXS1E220M0605	1000
	33	5	5.4	55	0.18	AXS1E330M0505	1000
		6.3	5.4	67	0.18	AXS1E330M0605	1000
	47	6.3	5.4	75	0.18	AXS1E470M0605	1000
		6.3	7.7	98	0.18	AXS1E470M0607	1000
		8	6.5	98	0.18	AXS1E470M0806	1000
	68	6.3	5.4	75	0.18	AXS1E680M0605	1000
		6.3	7.7	109	0.18	AXS1E680M0607	1000
	100	6.3	5.4	67	0.18	AXS1E101M0605	1000
		6.3	7.7	109	0.18	AXS1E101M0607	1000
		8	6.5	125	0.18	AXS1E101M0806	1000
		8	10.5	270	0.18	AXS1E101M0810	500
	220	8	10.5	270	0.18	AXS1E221M0810	500
		10	7.7	270	0.18	AXS1E221M1007	500
	330	8	10.5	270	0.18	AXS1E331M0810	500
		10	10.5	400	0.18	AXS1E331M1010	500
	470	10	10.5	400	0.18	AXS1E471M1010	500
	680	10	13	430	0.18	AXS1E681M1013	400
		12.5	13.5	680	0.26	AXS1E681M1313	200
	1000	12.5	13.5	750	0.28	AXS1E102M1313	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)
35	4.7	4	5.4	26	0.16	AXS1V4R7M0405	2000
	10	4	5.4	26	0.16	AXS1V100M0405	2000
		5	5.4	44	0.16	AXS1V100M0505	1000
	22	5	5.4	47	0.16	AXS1V220M0505	1000
		6.3	5.4	59	0.16	AXS1V220M0605	1000
	33	6.3	5.4	67	0.16	AXS1V330M0605	1000
		6.3	7.7	85	0.16	AXS1V330M0607	1000
	47	6.3	5.4	67	0.16	AXS1V470M0605	1000
		6.3	7.7	98	0.16	AXS1V470M0607	1000
		8	6.5	105	0.16	AXS1V470M0806	1000
	68	6.3	7.7	109	0.16	AXS1V680M0607	1000
	100	6.3	7.7	109	0.16	AXS1V101M0607	1000
		8	10.5	252	0.16	AXS1V101M0810	500
	150	10	7.7	252	0.16	AXS1V151M1007	500
	220	8	10.5	270	0.16	AXS1V221M0810	500
		10	10.5	370	0.16	AXS1V221M1010	500
	330	10	10.5	400	0.16	AXS1V331M1010	500
		10	13	430	0.16	AXS1V331M1013	400
	470	10	10.5	370	0.16	AXS1V471M1010	500
		10	13	430	0.16	AXS1V471M1013	400
		12.5	13.5	680	0.22	AXS1V471M1313	200
	680	12.5	13.5	680	0.22	AXS1V681M1313	200
50	1	4	5.4	10	0.14	AXS1H010M0405	2000
	2.2	4	5.4	14	0.14	AXS1H2R2M0405	2000
	3.3	4	5.4	17	0.14	AXS1H3R3M0405	2000
	4.7	4	5.4	20	0.14	AXS1H4R7M0405	2000
		5	5.4	35	0.14	AXS1H4R7M0505	1000
	10	5	5.4	35	0.14	AXS1H100M0505	1000
		6.3	5.4	50	0.14	AXS1H100M0605	1000
	22	6.3	5.4	50	0.14	AXS1H220M0605	1000
		6.3	7.7	65	0.14	AXS1H220M0607	1000
		8	6.5	70	0.14	AXS1H220M0806	1000
	33	6.3	7.7	75	0.14	AXS1H330M0607	1000
		8	6.5	95	0.14	AXS1H330M0806	1000
	47	6.3	7.7	75	0.14	AXS1H470M0607	1000
		8	6.5	95	0.14	AXS1H470M0806	1000
		8	10.5	190	0.14	AXS1H470M0810	500
	68	8	10.5	190	0.14	AXS1H680M0810	500
	100	8	10.5	190	0.14	AXS1H101M0810	500
		10	10.5	320	0.14	AXS1H101M1010	500
	220	10	10.5	320	0.14	AXS1H221M1010	500
	330	10	13	320	0.14	AXS1H331M1013	400
		12.5	13.5	600	0.18	AXS1H331M1313	200
	470	12.5	16	740	0.18	AXS1H471M1316	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)
63	1	4	5.4	8	0.12	AXS1J010M0405	2000
	2.2	4	5.4	12	0.12	AXS1J2R2M0405	2000
	3.3	5	5.4	22	0.12	AXS1J3R3M0505	1000
	4.7	5	5.4	25	0.12	AXS1J4R7M0505	1000
	10	6.3	5.4	40	0.12	AXS1J100M0605	1000
		8	6.5	46	0.12	AXS1J100M0806	1000
	22	6.3	7.7	49	0.12	AXS1J220M0607	1000
		8	6.5	55	0.12	AXS1J220M0806	1000
		8	10.5	139	0.12	AXS1J220M0810	500
	33	8	10.5	139	0.12	AXS1J330M0810	500
	47	8	10.5	139	0.12	AXS1J470M0810	500
		10	10.5	200	0.12	AXS1J470M1010	500
	68	10	10.5	226	0.12	AXS1J680M1010	500
	100	10	10.5	226	0.12	AXS1J101M1010	500
		10	13	270	0.12	AXS1J101M1013	400
	220	12.5	13.5	500	0.14	AXS1J221M1313	200
	330	12.5	16	600	0.14	AXS1J331M1316	200
100	4.7	5	5.4	15	0.12	AXS2A4R7M0505	1000
		6.3	5.4	21	0.12	AXS2A4R7M0605	1000
		6.3	7.7	35	0.12	AXS2A4R7M0607	1000
	10	6.3	5.4	25	0.12	AXS2A100M0605	1000
		6.3	7.7	35	0.12	AXS2A100M0607	1000
		8	6.5	50	0.12	AXS2A100M0806	1000
		8	10.5	90	0.12	AXS2A100M0810	500
	22	8	10.5	90	0.12	AXS2A220M0810	500
		10	10.5	120	0.12	AXS2A220M1010	500
	33	10	10.5	120	0.12	AXS2A330M1010	500
	47	10	10.5	120	0.12	AXS2A470M1010	500
		10	13	160	0.12	AXS2A470M1013	400
		12.5	13.5	340	0.12	AXS2A470M1313	200
	68	10	13	180	0.12	AXS2A680M1013	400
		12.5	13.5	380	0.14	AXS2A680M1313	200
	100	12.5	13.5	440	0.14	AXS2A101M1313	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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