AXZ

+105°C Low Impedance Surface Mount Aluminum Electrolytic Capacitors

Features

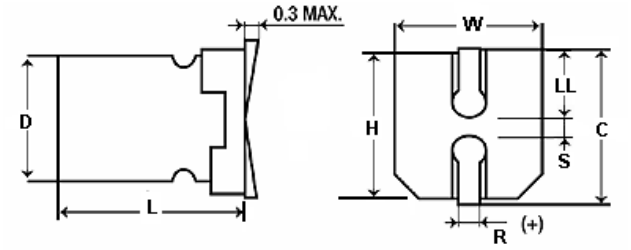
- Standard case sizes
- Low impedance
- Lead Free Leads
- Extended life

Applications

- Bypass
- Coupling
- filtering
- De-Coupling

Specifications

Operating Temperature Range		**-55°C to +105°C**						
Capacitance Tolerance		**±20% at 120 Hz, 20°C**						
Surge voltage	**WVDC**	**6.3**	**10**	**16**	**25**	**35**	**50**	
	SVDC	7.9	13	20	32	44	63	
Dissipation Factor	**WVDC**	**6.3**	**10**	**16**	**25**	**35**	**50**	
	D≤6.3mm	.24	.2	.16	.14	.12	.12	
	D≥8mm	.28	.24	.2	.16	.14	.14	
Leakage current		**2 Minutes**						
		.01CV or 3uA,Whichever is greater						
Low temperature stability Impedance ratio (120 Hz)	**Rated WVDC**	**6.3**	**10**	**16**	**25**	**35**	**50**	
	-25°C to +20°C	3	2	2	2	2	2	
	-40°C to +20°C	5	4	4	3	3	3	
Load Life		**2000 hours(D≤6.3mm,1000 Hrs.) at 105°C with rated WVDC and ripple current applied**						
	Capacitance change	<25% of initial measured value						
	Dissipation factor	<200% of maximum specified value						
	Leakage current	>100% of maximum specified value						
Shelf Life		**1000 hours at 85°C with no voltage applied**						
	Capacitance change	<25% of initial measured value						
	Dissipation factor	<200% of maximum specified value						
	Leakage current	>100% of maximum specified value						
Resistance to soldering heat		**Capacitors placed on a 250°C hot plate for 30 seconds with their electrode terminations facing downward will fulfill the following conditions after being cooled to room temperature**						
	Capacitance change	<10% of initial measured value						
	Dissipation factor	<100% of maximum specified value						
	Leakage current	>100% of maximum specified value						
Ripple Current Multipliers		**Frequency (Hz)**				**Temperature (°C)**		
		50	120	1k	100k	105	85	65
		.45	.5	.83	1.0	1.0	1.7	1.45



D	L	W±0.2	H±0.2	C±0.2	R	P±0.2
4	5.4 +0.1/-0.2	4.3	4.3	5.0	0.5~0.8	1.0
5	5.4 +0.1/-0.2	5.3	5.3	6.0	0.5~0.8	1.4
6.3	5.4 +0.1/-0.2	6.6	6.6	7.3	0.5~0.8	2.2
6.3	5.8 +0.1/-0.2	6.6	6.6	7.3	0.5~0.8	2.2
6.3	7.7 +0.1/-0.2	6.6	6.6	7.3	0.5~0.8	2.2
8	6.2 +0.1/-0.2	8.3	8.3	9.0	0.7~1.0	3.2
8	10.2+0.1/-0.2	8.3	8.3	9.0	0.7~1.0	3.2
10	10.2+0.1/-0.2	10	10	11.0	0.7~1.0	4.6

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AXZ

+105°C, Low Impedance 2000 hours

Capacitance (µF)	WVDC	IC PART NUMBER	Maximum ESR (mΩ) 120 Hz, +20°C	Impedance Ω +20°C/-10°C 100kHz	Maximum RMS Ripple Current (mA) 100 kHz, +105°C	Dims DxL (mm)
1	50	105AXZ050M	198.944	5	30	4x5.4
2.2	50	225AXZ050M	90.429	5	30	4x5.4
3.3	50	335AXZ050M	60.286	5	30	4x5.4
4.7	35	475AXZ035M	42.33	1.8	80	4x5.4
4.7	50	475AXZ050M	42.328	1.52	85	5x5.4
6.8	50	685AXZ050M	29.256	1.2	120	5x5.4
10	25	106AXZ025M	23.21	1.8	80	4x5.4
10	35	106AXZ035M	19.89	0.76	150	5x5.4
10	50	106AXZ050M	19.894	0.88	165	6.3x5.4
15	16	156AXZ016M	17.68	1.8	80	4x5.4
15	35	156AXZ035M	13.263	0.76	150	5x5.4
15	50	156AXZ050M	13.263	0.88	165	6.3x5.4
22	10	226AXZ010M	15.07	1.8	80	4x5.4
22	35	226AXZ035M	9.04	0.76	150	5x5.4
22	50	226AXZ050M	9.043	0.88	165	6.3x5.4
27	6.3	276AXZ6R3M	14.737	1.8	80	4x5.4
27	16	276AXZ016M	9.824	0.76	150	5x5.4
27	35	276AXZ035M	7.368	0.44	230	6.3x5.4
27	50	276AXZ050M	7.368	0.68	185	6.3x7.7
33	10	336AXZ010M	10.05	0.76	150	5x5.4
33	35	336AXZ035M	6.03	0.44	230	6.3x5.4
33	50	336AXZ050M	6.029	0.68	185	6.3x7.7
47	6.3	476AXZ6R3M	8.47	0.76	150	5x5.4
47	35	476AXZ035M	4.23	0.44	230	6.3x5.4
47	50	476AXZ050M	4.233	0.68	185	6.3x7.7
56	6.3	566AXZ6R3M	7.11	0.76	150	5x5.4
56	25	566AXZ025M	4.145	0.44	230	6.3x5.4

Capacitance (µF)	WVDC	IC PART NUMBER	Maximum ESR (mΩ) 120 Hz, +20°C	Impedance Ω +20°C/-10°C 100kHz	Maximum RMS Ripple Current (mA) 100 kHz, +105°C	Dims DxL (mm)
56	35	566AXZ035M	3.553	0.34	280	6.3x7.7
56	50	566AXZ050M	4.145	0.34	350	8x10.5
68	25	686AXZ025M	3.41	0.44	230	6.3x5.4
68	35	686AXZ035M	2.93	0.34	280	6.3x7.7
68	50	686AXZ050M	3.413	0.34	350	8x10.5
100	16	107AXZ016M	2.65	0.44	230	6.3x5.4
100	25	107AXZ025M	2.32	0.34	280	6.3x7.7
100	50	107AXZ050M	2.321	0.18	300	8x10.5
150	10	157AXZ010M	2.21	0.44	230	6.3x5.4
150	16	157AXZ016M	1.77	0.34	280	6.3x7.7
150	35	157AXZ035MD8	1.55	0.17	600	8x10.5
150	50	157AXZ050M	1.547	0.18	670	10x10.5
220	6.3	227AXZ6R3M	1.81	0.44	230	6.3x5.4
220	16	227AXZ016M	1.206	0.34	280	6.3x7.7
220	35	227AXZ035M	1.06	0.17	600	8x10.5
220	50	227AXZ050M	1.055	0.18	670	10x10.5
330	6.3	337AXZ6R3M	1.206	0.34	280	6.3x7.7
330	16	337AXZ016M	1.01	0.17	450	10x7.7
330	25	337AXZ025M	0.804	0.17	600	8x10.5
330	35	337AXZ035M	0.703	0.09	850	10x10.5
470	16	477AXZ016M	0.706	0.17	600	8x10.5
470	25	477AXZ025M	0.564	0.09	850	10x10.5
680	6.3	687AXZ6R3MD8	0.683	0.17	450	8x10.5
680	16	687AXZ016M	0.488	0.09	850	10x10.5
1000	6.3	108AXZ6R3M	0.464	0.17	600	8x10.5
1000	10	108AXZ010M	0.398	0.09	850	10x10.5
1500	6.3	158AXZ6R3M	0.309	0.09	850	10x10.5

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