



THE DATASHEET OF
227AXZ016M





FEATURES

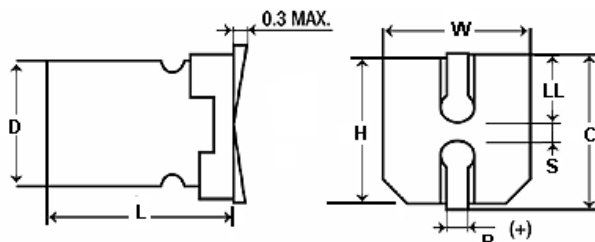
Small Size – Long Life – Very Low Impedance

APPLICATIONS

Filtering – Bypass/ Coupling – De-Coupling

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 at 105°C with rated WVDC								
	Capacitance Change	<30% of initial measured value							
	Dissipation Factor	<300% of maximum specified value							
	Leakage Current	>100% of maximum specified value							
Shelf Life	1000 hours at 105°C with no voltage applied								
	Capacitance Change	<30% of initial measured value							
	Dissipation Factor	<300% 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		

Special Order Options



D	L	W±0.2	H±0.2	C± Max	R	LL±0.2	S±0.2
4	5.4 +0.3/-0.2	4.3	4.3	5.5	0.5-0.8	1.8	1.0
5	5.4 +0.3/-0.2	5.3	5.3	6.5	0.5-0.8	2.1	1.4
6.3	5.4 +0.3/-0.2	6.6	6.6	7.8	0.5-0.8	2.4	2.2
6.3	7.7 +0.3/-0.3	6.6	6.6	7.8	0.5-0.8	2.4	2.2
8	6.2 +0.3/-0.3	8.3	8.3	9.5	0.5-0.8	2.9	3.2
8	10.2+0.3/-0.3	8.3	8.3	10.0	0.7-1.1	2.9	3.2
10	7.7 +0.3/-0.3	10.3	10.3	12.0	0.7-1.1	3.12	4.6
10	10.2+0.3/-0.3	10.3	10.3	12.0	0.7-1.1	3.12	4.6

AXZ

+105°C, Low Impedance 2000 hours

WVDC	Capacitance (µF)	IC PART NUMBER	Maximum ESR (Ω) 120 Hz, +20°C	Impedance Ω +20°C, 100kHz	Maximum RMS Ripple Current (mA) 100 kHz, +105°C	Dims DxDL (mm)
6.3	27	276AXZ6R3M	14.737	1.8	80	4x5.4
6.3	47	476AXZ6R3M	8.47	1	150	5x5.4
6.3	56	566AXZ6R3M	7.11	0.76	150	5x5.4
6.3	220	227AXZ6R3M	1.81	0.44	230	6.3x5.4
6.3	330	337AXZ6R3M	1.206	0.34	280	6.3x7.7
6.3	680	687AXZ6R3MD8	0.683	0.17	450	8x10.2
6.3	1000	108AXZ6R3M	0.464	0.17	600	8x10.2
6.3	1500	158AXZ6R3M	0.309	0.09	850	10x10.2
10	22	226AXZ010M	15.07	1.93	80	4x5.4
10	33	336AXZ010M	10.05	1	150	5x5.4
10	150	157AXZ010M	2.21	0.44	230	6.3x5.4
10	1000	108AXZ010M	0.398	0.09	850	10x10.2
16	15	156AXZ016M	17.68	1.8	80	4x5.4
16	27	276AXZ016M	9.824	0.76	150	5x5.4
16	100	107AXZ016M	2.65	0.52	230	6.3x5.4
16	150	157AXZ016M	1.77	0.34	280	6.3x7.7
16	220	227AXZ016M	1.206	0.34	280	6.3x7.7
16	330	337AXZ016M	1.01	0.17	450	10x7.7
16	470	477AXZ016M	0.706	0.17	600	8x10.2
16	680	687AXZ016M	0.488	0.09	850	10x10.2
25	10	106AXZ025M	23.21	1.8	80	4x5.4
25	56	566AXZ025M	4.145	0.44	230	6.3x5.4
25	68	686AXZ025M	3.41	0.44	230	6.3x5.4
25	100	107AXZ025M	2.32	0.34	280	6.3x7.7
25	330	337AXZ025M	0.804	0.17	600	8x10.2
25	470	477AXZ025M	0.564	0.09	850	10x10.2
35	4.7	475AXZ035M	42.33	1.8	80	4x5.4

WVDC	Capacitance (µF)	IC PART NUMBER	Maximum ESR (Ω) 120 Hz, +20°C	Impedance Ω +20°C, 100kHz	Maximum RMS Ripple Current (mA) 100 kHz, +105°C	Dims DxDL (mm)
35	10	106AXZ035M	19.89	0.76	150	5x5.4
35	15	156AXZ035M	13.263	0.76	150	5x5.4
35	22	226AXZ035M	9.04	1	150	5x5.4
35	27	276AXZ035M	7.368	0.44	230	6.3x5.4
35	33	336AXZ035M	6.03	0.52	230	6.3x5.4
35	47	476AXZ035M	4.23	0.52	230	6.3x5.4
35	56	566AXZ035M	3.553	0.34	280	6.3x7.7
35	68	686AXZ035M	2.93	0.34	280	6.3x7.7
35	150	157AXZ035MD8	1.55	0.17	600	8x10.2
35	220	227AXZ035M	1.06	0.17	600	8x10.2
35	330	337AXZ035M	0.703	0.09	850	10x10.2
50	1	105AXZ050M	198.944	5	30	4x5.4
50	2.2	225AXZ050M	90.429	5	30	4x5.4
50	3.3	335AXZ050M	60.286	5	30	4x5.4
50	4.7	475AXZ050M	42.328	1.52	85	5x5.4
50	6.8	685AXZ050M	29.256	1.2	120	5x5.4
50	10	106AXZ050M	19.894	0.88	165	6.3x5.4
50	15	156AXZ050M	13.263	0.88	165	6.3x5.4
50	22	226AXZ050M	9.043	0.88	165	6.3x5.4
50	27	276AXZ050M	7.368	0.68	185	6.3x7.7
50	33	336AXZ050M	6.029	0.8	170	6.3x7.7
50	47	476AXZ050M	4.233	0.68	185	6.3x7.7
50	56	566AXZ050M	4.145	0.34	350	8x10.2
50	68	686AXZ050M	3.413	0.34	350	8x10.2
50	100	107AXZ050M	2.321	0.4	300	8x10.2
50	150	157AXZ050M	1.547	0.18	670	10x10.2
50	220	227AXZ050M	1.055	0.18	670	10x10.2

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