

# ACZ

## +105°C Very Low Impedance Surface Mount Aluminum Electrolytic Capacitors



### FEATURES

- Lower impedance than AXZ series
- Higher ripple current than AXZ series
- Same case size as AXZ series
- Long Life
- High temperature
- RoHS Compliant

### SPECIFICATIONS

<b>Operating Temperature Range</b>		<b>-55°C to +105°C</b>					
<b>Capacitance Tolerance</b>		<b>±20% at 120Hz, 20°C</b>					
<b>Surge Voltage</b>	<b>WVDC</b>	6.3	10	16	25	35	50
	<b>SVDC</b>	7.9	13	20	32	44	63
<b>Dissipation Factor</b>	<b>WVDC</b>	6.3	10	16	25	35	50
	<b>tan δ</b>	.24	.19	.16	.14	.12	.12
<b>Leakage current</b>		.01 CV or 3μA, whichever is greater 2 minutes					
<b>Low Temperature Stability Impedance ratio (120Hz)</b>		6.3	10	16	25	35	50
	<b>-25°C/+20°C</b>	3	2	2	2	2	2
	<b>-55°C/+20°C</b>	5	4	4	3	3	3
<b>Load Life</b>	<b>2,000 hours (1000 Hours for D ≤ 6.3) at rated voltage and 105°C</b>						
	Capacitance change Dissipation factor Leakage current	≤ 25% of initial measured values ≤ 200% initial specified value ≤ 100% Initial specified value					
<b>Shelf Life</b>	<b>1000 hours at 105°C with no applied voltage.</b>						
	Capacitance change Dissipation factor Leakage current	≤ 25% of initial measured values ≤ 200% initial specified value ≤ 100% Initial specified value					
<b>Ripple Current Multipliers</b>	<b>Frequency (Hz)</b>				<b>Temperature (°C)</b>		
	60	120	1k	≥10k	25	85	105
	0.45	0.50	0.83	1.0	2.10	1.70	1.0

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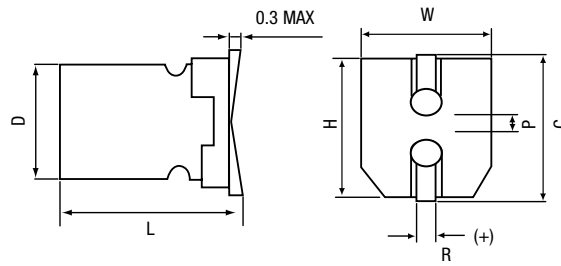
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## PHYSICAL DIMENSIONS

WVDC (SV) / (μF)	6.3 (7.9)	10 (13)	16 (20)	25 (32)	35 (44)	50 (63)
10					5x5.8	6.3x5.8
15					5x5.8	6.3x5.8
22					5x5.8	6.3x5.8
27			5x5.8		6.3x5.8	
33		5x5.8			6.3x5.8	6.3x7.7 8x6.2
47	5x5.8				6.3x5.8	6.3x7.7 8x6.2
56	5x5.8			6.3x5.8		8x10.2
68				6.3x5.8	6.3x7.7	8x10.2
100			6.3x5.8	6.3x7.7 8x10.2		8x10.2 10x10.2
150		6.3x5.8	6.3x7.7		8x10.2	8x10.2
220	6.3x5.8		6.3x7.7 8x6.2		8x10.2	10x10.2
330	6.3x7.7 8x6.2			8x10.2	10x10.2	
470			8x10.2 10x10.2			
680	8x10.2		10x10.2			
1000	8x10.2	10x10.2				
1500	10x10.2					

DxL (mm)

## DIMENSIONS



D+0.5 MAX	L±0.3	W±0.2	H±0.2	C±0.2	R	P±0.2
5	5.8	5.3	5.3	5.9	0.65±0.1	1.5
6.3	5.8	6.6	6.6	7.3	0.65±0.1	2.1
6.3	7.7	6.6	6.6	7.3	0.65±0.1	2.1
8	6.2	8.3	8.3	9.9	0.9±0.2	3.1
8	10.2	8.3	8.3	9.9	0.9±0.2	3.1
10	10.2	10.3	10.3	11.6	0.9±0.2	4.6

(mm)

## STANDARD PART LISTING

Capacitance (μF)	WVDC	ic <sup>®</sup> PART NUMBER	Maximum ESR Ω 120Hz +20°C	Impedance Ω 100kHz +20°C	Maximum RMS Ripple Current (mA) at 100kHz, +105°C	Dimensions DxL (mm)
10	35	106ACZ035M	19.8944	0.7	170	5x5.8
10	50	106ACZ050M	19.8944	0.52	215	6.3x5.8
15	35	156ACZ035M	13.2629	0.7	170	5x5.8
15	50	156ACZ050M	13.2629	0.52	215	6.3x5.8
22	35	226ACZ035M	9.0429	0.7	170	5x5.8
22	50	226ACZ050M	9.0429	0.52	215	6.3x5.8
27	16	276ACZ016M	9.8244	0.76	150	5x5.8
27	35	276ACZ035M	7.3683	0.39	250	6.3x5.8
33	10	336ACZ010M	9.5453	0.7	170	5x5.8
33	35	336ACZ035M	6.0286	0.39	240	6.3x5.8
33	50	336ACZ050M	6.0286	0.66	280	6.3x7.7
33	50	336ACZ050MJG	6.0286	0.63	300	8x6.2
47	6.3	476ACZ6R3M	8.4657	0.7	170	5x5.8
47	35	476ACZ035M	4.2328	0.39	240	6.3x5.8
47	50	476ACZ050M	4.2328	0.66	280	6.3x7.7
47	50	476ACZ050MJG	4.2328	0.63	300	8x6.2
56	6.3	566ACZ6R3M	7.1051	0.7	170	5x5.8
56	25	566ACZ025M	4.1447	0.39	250	6.3x5.8
56	50	566ACZ050M	3.55	0.229	215	8x10.5
68	25	686ACZ025M	3.4133	0.39	240	6.3x5.8
68	35	686ACZ035M	2.9256	0.32	290	6.3x7.7
68	50	686ACZ050M	2.9256	0.22	400	8x10.2
100	16	107ACZ016M	2.6526	0.39	240	6.3x5.8

Capacitance (μF)	WVDC	ic <sup>®</sup> PART NUMBER	Maximum ESR Ω 120Hz +20°C	Impedance Ω 100kHz +20°C	Maximum RMS Ripple Current (mA) at 100kHz, +105°C	Dimensions DxL (mm)
100	25	107ACZ025M	2.3210	0.36	290	6.3x7.7
100	50	107ACZ050M	1.9894	0.22	400	8x10.2
100	50	107ACZ050MLL	1.9894	0.16	700	10x10.2
150	10	157ACZ010M	2.1000	0.39	240	6.3x5.8
150	16	157ACZ016M	1.7684	0.32	290	6.3x7.7
150	35	157ACZ035M	1.3263	0.16	600	8x10.2
150	50	157ACZ050M	1.3263	0.13	587	10x10.2
220	6.3	227ACZ6R3M	1.8086	0.39	240	6.3x5.8
220	16	227ACZ016M	1.2057	0.32	290	6.3x7.7
220	16	227ACZ016MJG	1.2057	0.26	300	8x6.2
220	35	227ACZ035M	0.9043	0.16	600	8x10.2
220	50	227ACZ050MLL	0.9043	0.08	850	10x10.2
330	6.3	337ACZ6R3M	1.2057	0.32	290	6.3x7.7
330	6.3	337ACZ6R3MJG	1.2057	0.23	300	8x6.2
330	25	337ACZ025M	0.7033	0.16	600	8x10.2
330	35	337ACZ035MLL	0.7033	0.08	850	10x10.2
470	16	477ACZ016M	0.5644	0.16	600	8x10.2
470	16	477ACZ016MLL	0.5644	0.08	850	10x10.2
680	6.3	687ACZ6R3M	0.5851	0.16	600	8x10.2
680	16	687ACZ016M	0.4632	0.08	850	10x10.2
1000	6.3	108ACZ6R3M	0.3979	0.16	600	8x10.2
1000	10	108ACZ010M	0.3979	0.08	850	10x10.2
1500	6.3	158ACZ6R3M	0.2653	0.08	850	10x10.2