

### FEATURES

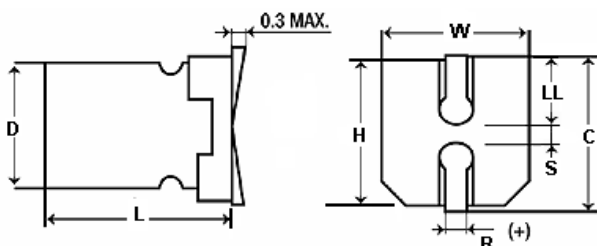
Small Size – Long Life – Low Impedance

### APPLICATIONS

Filtering – Bypass/ Coupling – De-Coupling

<b>Operating Temperature Range</b>		<b>-55°C to +105°C</b>					
<b>Capacitance Tolerance</b>		<b>+20% at 120 Hz, 20°C</b>					
<b>Surge Voltage</b>	<b>WVDC</b>	<b>6.3</b>	<b>10</b>	<b>16</b>	<b>25</b>	<b>35</b>	<b>50</b>
	<b>SVDC</b>	7.9	13	20	32	44	63
<b>Dissipation Factor</b>	<b>WVDC</b>	<b>6.3</b>	<b>10</b>	<b>16</b>	<b>35</b>	<b>50</b>	
	<b>Tan δ</b>	.26	.19	.16	.12	.12	
<b>Leakage Current</b>		<b>2 Minutes</b>					
		.01CV or 3uA, Whichever is greater					
<b>Low Temperature Stability Impedance Ratio (120 Hz)</b>	<b>Rated WVDC</b>	<b>6.3</b>	<b>10</b>	<b>16</b>	<b>25</b>	<b>35</b>	<b>50</b>
	<b>-25°C to +20°C</b>	2	2	2	2	2	2
	<b>-40°C to +20°C</b>	3	3	3	3	3	3
<b>Load Life</b>		<b>5000 hours (3000 hours for D=4,5,6.3mm) at 105°C with rated WVDC</b>					
		<b>Capacitance Change</b>	≤30% of initial measured value				
		<b>Dissipation Factor</b>	≤200% of maximum specified value				
		<b>Leakage Current</b>	Not more than the specified value				
<b>Shelf Life</b>		<b>1000 hours at 85°C with no voltage applied</b>					
		<b>Capacitance Change</b>	≤30% of initial measured value				
		<b>Dissipation Factor</b>	≤200% of maximum specified value				
		<b>Leakage Current</b>	Not more than the specified value				
<b>Resistance to Soldering Heat</b>		<b>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</b>					
		<b>Capacitance Change</b>	≤10% of initial measured value				
		<b>Dissipation Factor</b>	≤100% of maximum specified value				
		<b>Leakage Current</b>	≤100% of maximum specified value				
<b>Ripple Current Multipliers</b>		<b>Frequency (Hz)</b>					
		120	1k	10k	100k		
		0.70	0.80	0.90	1.00		

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D	L	W +0.2	H +0.2	C max	R	S +0.2
4	5.4 +0.3/-0.1	4.3	4.8	5.5	0.65±0.1	1.0
5	5.4 +0.3/-0.1	5.3	5.8	6.5	0.65±0.1	1.5
6.3	5.4 +0.3/-0.1	6.6	7.1	7.8	0.65±0.1	1.8
6.3	7.7 +/- 0.3	6.6	7.1	7.8	0.65±0.1	1.8
8	6.2 +/- 0.3	8.3	8.8	9.5	0.65±0.1	2.2
8	10.2 +/- 0.3	8.3	8.6	10.0	0.90±0.2	3.1
10	10.2 +/- 0.3	10.3	10.6	12.0	0.90±0.2	4.6

# ATB

+105°C, Low Impedance, up to 5000 hours

WVDC	Capacitance (µF)	IC PART NUMBER	Impedance Ω +20°C, 100kHz	Maximum RMS Ripple Current (mA) 100 kHz, +105°C	Dims DxL (mm)
6.3	22	ATB226M6R3	1.93	90	4x5.4
6.3	33	ATB336M6R3	1.93	90	4x5.4
6.3	47	ATB476M6R3	1	160	5x5.4
6.3	100	ATB107M6R3	0.52	240	6.3x5.4
6.3	150	ATB157M6R3	0.3	240	6.3x7.7
6.3	220	ATB227M6R3	0.3	240	6.3x7.7
6.3	330	ATB337M6R3	0.16	600	8x10.2
6.3	470	ATB477M6R3	0.16	600	8x10.2
6.3	680	ATB687M6R3	0.12	850	10x10.2
6.3	1000	ATB108M6R3	0.12	850	10x10.2
10	22	ATB226M010	1.93	90	4x5.4
10	33	ATB336M010	1	160	5x5.4
10	47	ATB476M010	0.52	190	6.3x5.4
10	100	ATB107M010	0.52	190	6.3x5.4
10	150	ATB157M010	0.34	240	6.3x7.7
10	220	ATB227M010	0.16	600	8x10.2
10	330	ATB337M010	0.16	600	8x10.2
10	470	ATB477M010	0.12	850	10x10.2
10	680	ATB687M010	0.12	850	10x10.2
10	1000	ATB108M010	0.12	850	10x10.2
16	10	ATB106M016	1.93	90	4x5.4
16	22	ATB226M016	1	160	5x5.4
16	33	ATB336M016	0.52	240	6.3x5.4
16	47	ATB476M016	0.52	240	6.3x5.4
16	100	ATB107M016	0.34	280	6.3x7.7
16	150	ATB157M016	0.22	370	8x10.2
16	220	ATB227M016	0.22	370	8x10.2
16	330	ATB337M016	0.16	600	8x10.2
16	470	ATB477M016	0.12	850	10x10.2
16	680	ATB687M016	0.12	850	10x10.2
25	10	ATB106M025	1.93	90	4x5.4

WVDC	Capacitance (µF)	IC PART NUMBER	Impedance Ω +20°C, 100kHz	Maximum RMS Ripple Current (mA) 100 kHz, +105°C	Dims DxL (mm)
25	22	ATB226M025	1	160	5x5.4
25	33	ATB336M025	0.52	240	6.3x5.4
25	47	ATB476M025	0.52	240	6.3x5.4
25	68	ATB686M025	0.34	280	6.3x7.7
25	100	ATB107M025	0.34	300	6.3x7.7
25	150	ATB157M025	0.16	600	8x10.2
25	220	ATB227M025	0.16	600	8x10.2
25	330	ATB337M025	0.16	850	10x10.2
25	470	ATB477M025	0.12	850	10x10.2
35	4.7	ATB475M035	1.93	90	4x5.4
35	10	ATB106M035	1	160	5x5.4
35	22	ATB226M035	1	160	5x5.4
35	33	ATB336M035	0.52	240	6.3x5.4
35	47	ATB476M035	0.34	280	6.3x7.7
35	68	ATB686M035	0.34	280	6.3x7.7
35	100	ATB107M035	0.16	600	8x10.2
35	150	ATB157M035	0.12	850	10x10.2
35	220	ATB227M035	0.12	850	10x10.2
35	330	ATB337M035	0.12	850	10x10.2
50	1	ATB105M050	5	60	4x5.4
50	2.2	ATB225M050	5	60	4x5.4
50	3.3	ATB335M050	5	60	4x5.4
50	4.7	ATB475M050	4	95	5x5.4
50	10	ATB106M050	2.6	140	6.3x5.4
50	22	ATB226M050	1.3	230	6.3x7.7
50	33	ATB336M050	0.5	350	8x10.2
50	47	ATB476M050	0.34	670	10x10.2
50	68	ATB686M050	0.34	670	10x10.2
50	100	ATB107M050	0.34	670	10x10.2
50	150	ATB157M050	0.34	670	10x10.2
50	220	ATB227M050	0.34	670	10x10.2

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