

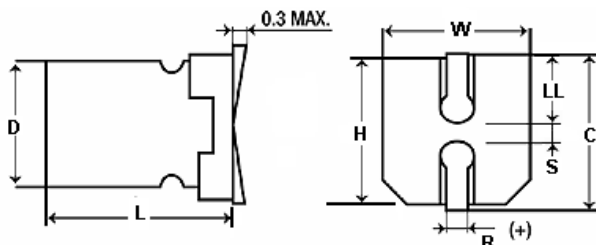
FEATURES

Small Size – Long Life – 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	35	50	
	Tan δ	.26	.19	.16	.12	.12	
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	2	2	2	2	2	2
	-40°C to +20°C	3	3	3	3	3	3
Load Life		5000 hours (3000 hours for D=4,5,6.3mm) at 105°C with rated WVDC					
		Capacitance Change	≤30% of initial measured value				
		Dissipation Factor	≤200% of maximum specified value				
		Leakage Current	Not more than the specified value				
Shelf Life		1000 hours at 85°C with no voltage applied					
		Capacitance Change	≤30% of initial measured value				
		Dissipation Factor	≤200% of maximum specified value				
		Leakage Current	Not more than the 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)					
		120	1k	10k	100k		
		0.70	0.80	0.90	1.00		



D	L	W +0.2	H +0.2	C max	R	LL +0.2	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

Capacitance (μF)	WVDC	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 DxL (mm)
1	50	ATB105M050	159.16	5	60	4x5.4
2.2	50	ATB225M050	72.34	5	60	4x5.4
3.3	50	ATB335M050	48.23	5	60	4x5.4
4.7	35	ATB475M035	33.86	1.93	90	4x5.4
4.7	50	ATB475M050	33.86	4	95	5x5.4
10	16	ATB106M016	21.22	1.9	90	4x5.4
10	25	ATB106M025	18.57	1.93	90	4x5.4
10	35	ATB106M035	15.92	1	160	5x5.4
10	50	ATB106M050	15.92	2.6	140	6.3x5.4
22	6.3	ATB226M6R3	7.23	1.3	90	4x5.4
22	10	ATB226M010	15.67	1.93	90	4x5.4
22	16	ATB226M016	11.45	1.93	160	5x5.4
22	25	ATB226M025	9.65	1	160	5x5.4
22	35	ATB226M035	8.44	1	160	5x5.4
22	50	ATB226M050	7.23	1	230	6.3x7.7
33	6.3	ATB336M6R3	4.82	0.5	90	4x5.4
33	10	ATB336M010	10.45	1.93	160	5x5.4
33	16	ATB336M016	7.64	1	240	6.3x5.4
33	25	ATB336M025	6.43	0.52	240	6.3x5.4
33	35	ATB336M035	5.63	0.52	240	6.3x5.4
33	50	ATB336M050	4.82	0.52	350	8x10.2
47	6.3	ATB476M6R3	3.39	0.34	160	5x5.4
47	10	ATB476M010	7.34	1	190	6.3x5.4
47	16	ATB476M016	5.36	0.52	240	6.3x5.4
47	25	ATB476M025	4.52	0.52	240	6.3x5.4
47	35	ATB476M035	3.95	0.52	280	6.3x7.7
47	50	ATB476M050	3.39	0.34	670	10x10.2
68	25	ATB686M025	2.73	0.34	280	6.3x7.7
68	35	ATB686M035	2.34	0.34	280	6.3x7.7
68	50	ATB686M050	2.34	0.34	670	10x10.2
100	6.3	ATB107M6R3	1.59	0.34	240	6.3x5.4

Capacitance (μF)	WVDC	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 DxL (mm)
100	10	ATB107M010	3.45	0.52	190	6.3x5.4
100	16	ATB107M016	2.52	0.52	280	6.3x7.7
100	25	ATB107M025	2.12	0.34	300	6.3x7.7
100	35	ATB107M035	1.86	0.34	600	8x10.2
100	50	ATB107M050	1.59	0.16	670	10x10.2
150	6.3	ATB157M6R3	1.06	0.34	240	6.3x7.7
150	10	ATB157M010	2.3	0.3	240	6.3x7.7
150	16	ATB157M016	1.68	0.34	370	8x10.2
150	25	ATB157M025	1.41	0.22	600	8x10.2
150	35	ATB157M035	1.24	0.16	850	10x10.2
150	50	ATB157M050	1.06	0.12	670	10x10.2
220	6.3	ATB227M6R3	0.72	0.34	240	6.3x7.7
220	10	ATB227M010	1.57	0.3	600	8x10.2
220	16	ATB227M016	1.15	0.16	370	8x10.2
220	25	ATB227M025	0.96	0.22	600	8x10.2
220	35	ATB227M035	0.84	0.16	850	10x10.2
220	50	ATB227M050	0.72	0.12	670	10x10.2
330	6.3	ATB337M6R3	0.48	0.12	600	8x10.2
330	10	ATB337M010	1.04	0.16	600	8x10.2
330	16	ATB337M016	0.76	0.16	600	8x10.2
330	25	ATB337M025	0.64	0.16	850	10x10.2
330	35	ATB337M035	0.56	0.12	850	10x10.2
470	6.3	ATB477M6R3	0.4	0.12	600	8x10.2
470	10	ATB477M010	0.73	0.16	850	10x10.2
470	16	ATB477M016	0.54	0.12	850	10x10.2
470	25	ATB477M025	0.45	0.12	850	10x10.2
680	6.3	ATB687M6R3	0.31	0.12	850	10x10.2
680	10	ATB687M010	0.51	0.12	850	10x10.2
680	16	ATB687M016	0.37	0.12	850	10x10.2
1000	6.3	ATB108M6R3	0.25	0.12	850	10x10.2
1000	10	ATB108M010	0.34	0.12	850	10x10.2