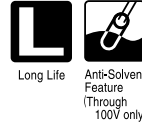
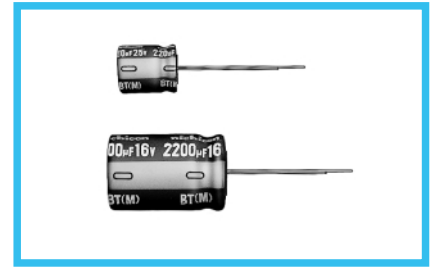
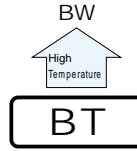


ALUMINUM ELECTROLYTIC CAPACITORS

BT series High Temperature Range, For +125°C Use



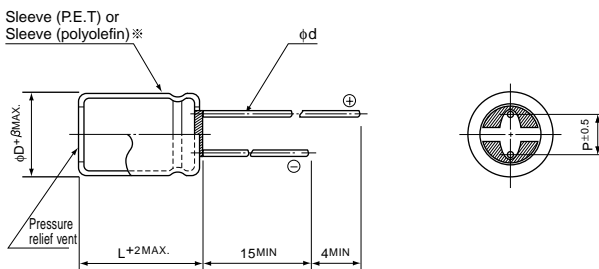
- Highly dependable reliability withstanding load life of 2000 to 10000 hours at +125°C.
- Suited for automobile electronics where heavy duty services are indispensable.
- Compliant to the RoHS directive (2011/65/EU).



Specifications

Item	Performance Characteristics												
Category Temperature Range	-40 to +125°C (10 to 250V), -25 to +125°C (350 to 450V)												
Rated Voltage Range	10 to 450V												
Rated Capacitance Range	1 to 4700µF												
Capacitance Tolerance	±20% at 120Hz, 20°C												
Leakage Current	Rated Voltage (V)	10 to 100						160 to 450					
	Leakage current	After 1 minute's application of rated voltage, leakage current is not more than 0.03CV or 4 (µA), whichever is greater.						CV ≤ 1000 : I = 0.1CV+40 (µA) max. (1 minute's) CV > 1000 : I = 0.04CV+100 (µA) max. (1 minute's)					
Tangent of loss angle (tan δ)	Rated voltage (V)	10	16	25	35	50	63	80	100	160 to 250	350 to 450	120Hz, 20°C	
	tan δ (MAX.)	0.20	0.16	0.14	0.12	0.10	0.10	0.08	0.08	0.20	0.24		
For capacitance of more than 1000µF, add 0.02 for every increase of 1000µF.													
Stability at Low Temperature	Rated voltage (V)											120Hz	
	Impedance ratio	Z-25°C / Z+20°C	3	2	2	2	2	2	2	2	2	3	6
	ZT / Z20 (MAX.)	Z-40°C / Z+20°C	4	4	4	4	4	4	4	4	4	6	-
Endurance	The specifications listed at right shall be met when the capacitors are restored to 20°C after D.C. bias plus rated ripple current is applied for less than 50V (φD = 8 : 2000 hours, φD = 10 : 5000 hours, φD ≥ 12.5 : 10000 hours), 63 to 100V (φD = 8 : 2000 hours, φD = 10 : 3000 hours, φD ≥ 12.5 : 5000 hours), more than 160V (2000 hours) at 125°C, the peak voltage shall not exceed the rated voltage.												
	Capacitance change	Within ±30% of the initial capacitance value (10 to 100V) Within ±20% of the initial capacitance value (160 to 450V)											
	Dissipation Factor	300% or less than the initial specified value (10 to 100V) 200% or less than the initial specified value (160 to 450V)											
Leakage current	Less than or equal to the initial specified value												
Shelf Life	After storing the capacitors under no load at 125°C for 1000 hours and then performing voltage treatment based on JIS C 5101-4 clause 4.1 at 20°C, they shall meet the specified values for the endurance characteristics listed above.												
Marking	Printed with white color letter on blue sleeve.												

Radial Lead Type



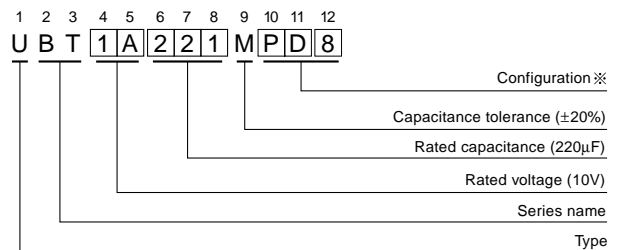
※ polyolefin sleeve product is also available upon request.

	(mm)				
φD	8	10	12.5	16	18
β	0.8	0.8	1.0	1.0	1.0
P	3.5	5.0	5.0	7.5	7.5
φd	0.6	0.6	0.6	0.8	0.8

※ In case L > 25 for the φ12.5 dia. unit, lead dia. φ d = 0.8mm.

- Please refer to page 20 about the end seal configuration.

Type numbering system (Example : 10V 220µF)



Configuration	Standard type	Semi-standard type
φ D	Pb-free leadwire Pb-free PET sleeve	Pb-free leadwire Pb-free Polyolefin sleeve
8 · 10	PD8	PD
12.5 to 18	HD8	HD

Please refer to page 20, 21, 22 about the formed or taped product spec.
Please refer to page 4 for the minimum order quantity.

● Dimension table in next page.

■ Dimensions

Cap. (μF)	V(Code)	Item Code	10 (1A)			16 (1C)			25 (1E)			35 (1V)			50 (1H)		
			Case size φD × L (mm)	Impedance (Ω) MAX.	Rated ripple (mArms)	Case size φD × L (mm)	Impedance (Ω) MAX.	Rated ripple (mArms)	Case size φD × L (mm)	Impedance (Ω) MAX.	Rated ripple (mArms)	Case size φD × L (mm)	Impedance (Ω) MAX.	Rated ripple (mArms)	Case size φD × L (mm)	Impedance (Ω) MAX.	Rated ripple (mArms)
1	010																
2.2	2R2																
3.3	3R3																
4.7	4R7																
10	100																
22	220																
33	330																
47	470																
100	101																
220	221	8 × 11.5	0.26	340	10 × 12.5	0.15	620	10 × 12.5	0.10	680	10 × 16	0.094	790	10 × 20	0.098	930	
330	331	10 × 12.5	0.15	620	10 × 12.5	0.10	680	10 × 16	0.075	945	10 × 20	0.075	950	12.5 × 20	0.070	1330	
470	471	10 × 12.5	0.10	680	10 × 16	0.075	945	10 × 20	0.057	1100	12.5 × 20	0.058	1330	12.5 × 25	0.055	1650	
1000	102	10 × 20	0.057	1100	12.5 × 20	0.042	1490	12.5 × 25	0.033	1750	16 × 25	0.031	2010	16 × 31.5	0.031	2430	
2200	222	12.5 × 25	0.033	1750	16 × 25	0.024	2300	16 × 31.5	0.020	2710	18 × 35.5	0.025	2790				
3300	332	16 × 25	0.024	2300	16 × 31.5	0.020	2710	18 × 31.5	0.017	3310							
4700	472	16 × 31.5	0.020	2710	18 × 31.5	0.018	3270										

Cap. (μF)	V(Code)	Item Code	63 (1J)			80 (1K)			100 (2A)		
			Case size φD × L (mm)	Impedance (Ω) MAX.	Rated ripple (mArms)	Case size φD × L (mm)	Impedance (Ω) MAX.	Rated ripple (mArms)	Case size φD × L (mm)	Impedance (Ω) MAX.	Rated ripple (mArms)
4.7	4R7										
10	100										
22	220	8 × 11.5	2.00	130	8 × 11.5	1.50	150	10 × 12.5	0.80	480	
33	330	8 × 11.5	1.50	150	10 × 12.5	0.80	480	10 × 12.5	0.80	480	
47	470	10 × 12.5	0.59	530	10 × 12.5	0.80	480	10 × 16	0.55	630	
100	101	10 × 16	0.41	690	10 × 20	0.39	790	12.5 × 20	0.25	990	
220	221	12.5 × 20	0.16	1050	12.5 × 25	0.18	1240	16 × 25	0.11	1500	
330	331	12.5 × 25	0.12	1290	12.5 × 31.5	0.16	1390	16 × 31.5	0.079	1790	
470	471	12.5 × 31.5	0.097	1460	16 × 25	0.11	1500				

Rated ripple current (mArms) at 125°C 100kHz
Impedance (Ω) MAX. at 20°C 100kHz

● Frequency coefficient of rated ripple current

V	CV	Frequency			
		120Hz	300Hz	1kHz	10kHz or more
10 to 100	1000 > CV	0.50	0.64	0.83	1.00
	1000 ≤ CV	0.67	0.79	0.91	1.00

Cap. (μF)	V(Code)	Item Code	160 (2C)		200 (2D)		250 (2E)		350 (2V)		400 (2G)		450 (2W)	
			Case size φD × L (mm)	Rated ripple (mArms)	Case size φD × L (mm)	Rated ripple (mArms)	Case size φD × L (mm)	Rated ripple (mArms)	Case size φD × L (mm)	Rated ripple (mArms)	Case size φD × L (mm)	Rated ripple (mArms)	Case size φD × L (mm)	Rated ripple (mArms)
4.7	4R7													
10	100													
22	220	10 × 20	115	10 × 25	126	12.5 × 20	128	12.5 × 25	139	12.5 × 31.5	142	16 × 25	154	
33	330	10 × 25	154	12.5 × 20	157	12.5 × 25	171	16 × 25	189	16 × 25	189	16 × 31.5	203	
47	470	12.5 × 20	187	12.5 × 25	204	16 × 25	225	16 × 31.5	243	16 × 31.5	243			
68	680	12.5 × 25	245	16 × 20	250	16 × 31.5	292							
100	101	16 × 25	329	16 × 25	329									
150	151	16 × 31.5	434											

Rated ripple current (mArms) at 125°C 120Hz

● Frequency coefficient of rated ripple current

V	Cap. (μF)	Frequency					
		50Hz	120Hz	300Hz	1kHz	10kHz	100kHz or more
160 to 450	4.7 to 33	0.75	1.00	1.25	1.50	1.75	1.80
	47 to 150	0.80	1.00	1.15	1.30	1.40	1.50

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