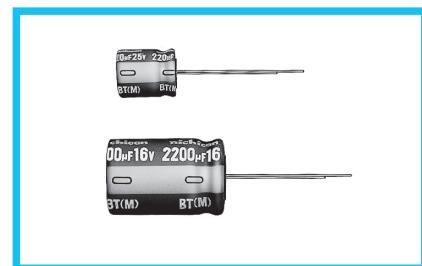
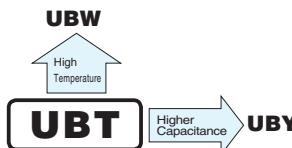


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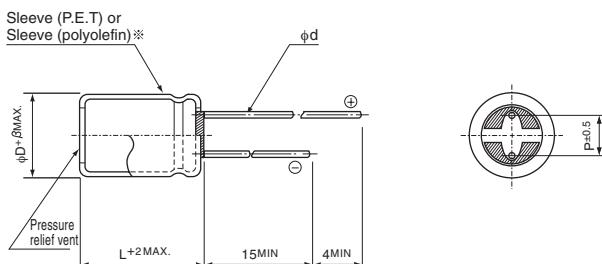
High Temperature Range, For +125°C Use



- 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, (EU)2015/863).
- AEC-Q200 compliant. Please contact us for details.

**■ 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	4.7 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 at 20°C, leakage current is not more than 0.03CV or 4 (μA), whichever is greater.								CV ≤ 1000 : I = 0.1CV+40 (μA) or less.		
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	120Hz											
	Rated voltage (V)	10	16	25	35	50	63	80	100	160 to 250	350 to 450	
Endurance	Impedance ratio (MAX.)	Z-25°C / Z+20°C	3	2	2	2	2	2	2	2	3	6
	(MAX.)	Z-40°C / Z+20°C	4	4	4	4	4	4	4	4	6	-
Shelf Life	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 ($\phi D = 8 : 2000$ hours, $\phi D = 10 : 5000$ hours, $\phi D \geq 12.5 : 10000$ hours), 63 to 100V ($\phi D = 8 : 2000$ hours, $\phi D = 10 : 3000$ hours, $\phi D \geq 12.5 : 5000$ 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)										
	tan δ	300% or less than the initial specified value (10 to 100V) 200% or less than the initial specified value (160 to 450V)										
Marking	Leakage current	Less than or equal to the initial specified value										
	Printed with white color letter on blue sleeve.											

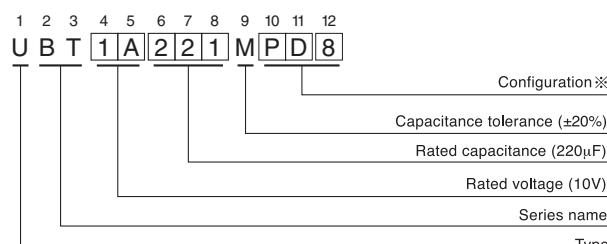
■ Radial Lead Type

* polyolefin sleeve product is also available upon request.

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

* In case $L > 25$ for the $\phi 12.5$ dia. unit, lead dia. $\phi d = 0.8$ mm.

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

Type numbering system (Example : 10V 220μF)

* Configuration

	Standard type	Semi-standard type
ϕD	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.

ALUMINUM ELECTROLYTIC CAPACITORS

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Dimensions

Cap. (μ F)	Code	V(Code)	10 (1A)			16 (1C)			25 (1E)			35 (1V)			50 (1H)		
			Case size $\phi D \times L$ (mm)	Impedance (Ω) MAX.	Rated ripple (mA rms)	Case size $\phi D \times L$ (mm)	Impedance (Ω) MAX.	Rated ripple (mA rms)	Case size $\phi D \times L$ (mm)	Impedance (Ω) MAX.	Rated ripple (mA rms)	Case size $\phi D \times L$ (mm)	Impedance (Ω) MAX.	Rated ripple (mA rms)	Case size $\phi D \times L$ (mm)	Impedance (Ω) MAX.	Rated ripple (mA rms)
4.7	4R7														8 × 11.5	1.15	85
10	100														8 × 11.5	0.75	180
22	220														8 × 11.5	0.50	250
33	330														8 × 11.5	0.45	300
47	470														8 × 11.5	0.35	440
100	101					8 × 11.5	0.32	340	8 × 11.5	0.13	500	10 × 12.5	0.15	620	10 × 12.5	0.18	555
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. (μ F)	Code	V(Code)	63 (1J)			80 (1K)			100 (2A)		
			Case size $\phi D \times L$ (mm)	Impedance (Ω) MAX.	Rated ripple (mA rms)	Case size $\phi D \times L$ (mm)	Impedance (Ω) MAX.	Rated ripple (mA rms)	Case size $\phi D \times L$ (mm)	Impedance (Ω) MAX.	Rated ripple (mA rms)
10	100								8 × 11.5	1.50	150
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 (mA rms) 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
10 to 100		1000 ≤ CV	0.67	0.79	0.91	1.00

Cap. (μ F)	Code	V(Code)	160 (2C)		200 (2D)		250 (2E)		350 (2V)		400 (2G)		450 (2W)	
			Case size $\phi D \times L$ (mm)	Rated ripple (mA rms)	Case size $\phi D \times L$ (mm)	Rated ripple (mA rms)	Case size $\phi D \times L$ (mm)	Rated ripple (mA rms)	Case size $\phi D \times L$ (mm)	Rated ripple (mA rms)	Case size $\phi D \times L$ (mm)	Rated ripple (mA rms)	Case size $\phi D \times L$ (mm)	Rated ripple (mA rms)
4.7	4R7								10 × 20	53	10 × 20	53	10 × 25	58
10	100				10 × 20	78	10 × 20	78	10 × 25	85	10 × 25	86	12.5 × 20	86
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 (mA rms) at 125°C 120Hz

Frequency coefficient of rated ripple current

V	Cap. (μ F)	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
160 to 450	47 to 150		0.80	1.00	1.15	1.30	1.40	1.50

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