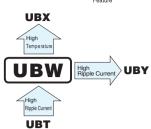


High Temperature Range, For +135°C Use



Anti-Solvent Feature

- Highly dependable reliability withstanding load life of 1000 to 3000 hours at +135°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.

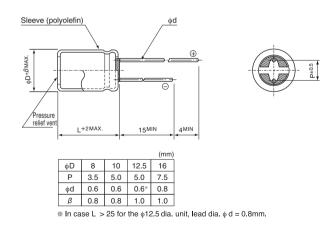




■ Specifications

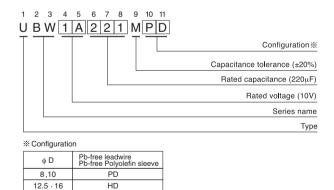
Item	Performance Characteristics											
Category Temperature Range	−55 to +135°C											
Rated Voltage Range	10 to 100V											
Rated Capacitance Range	4.7 to 4700μF											
Capacitance Tolerance	±20% at 120Hz, 20°C											
Leakage Current	After 1 minute's app	After 1 minute's application of rated voltage at 20°C, leakage current is not more than 0.03CV or 4 (μA), whichever is greater.										
Tangent of loss angle (tan $\delta)$	Rated voltage (V) tan δ (MAX.) For capacitance of m	10 16 0.20 0.16 ore than 1000µF, ac	25 0.14 Id 0.02 fo	35 0.12 r every inc	50 0.10 crease of 1	63 0.10 000μF.	80 0.08	100	120Hz, 20°C			
	120Hz											
Stability at Low Temperature	Rated voltage (V)		10	16	25	35	5	0 63	80	100]	
Stability at Low Temperature	Impedance ratio	Z-25°C / Z+20°C	3	2	2	2		2 2	2	2		
	(MAX.)	Z-40°C / Z+20°C	4	4	4	4		1 4	4	4]	
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 3000 hours (1000 hours for ϕ D=8, 2000 hours for ϕ D=10) at 135°C, the peak voltage shall not exceed the rated voltage. Capacitance change Within \pm 30% of the initial capacitance value tan δ 300% or less than the initial specified value Leakage current Less than or equal to the initial specified value							ied value				
Shelf Life	After storing the capacitors under no load at 135°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



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

Type numbering system (Example: 10V 220µF)



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

ALUMINUM ELECTROLYTIC CAPACITORS



■ Dimensions

	V (Code)	V (Code) 10 (1A)		16 (1C)			25 (1E)			35 (1V)			
Cap. Co	Item	$\begin{array}{c} \text{Case size} \\ \phi D \times L \\ \text{(mm)} \end{array}$	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)
100	101				8 × 11.5	0.32	340	8 × 11.5	0.13	500	10 × 12.5	0.15	620
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
330	331	10 × 12.5	0.15	620	10 × 12.5	0.10	680	10 × 16	0.075	945	10 × 20	0.075	950
470	471	10×12.5	0.10	680	10 × 16	0.075	945	10 × 20	0.057	1100	12.5 × 20	0.058	1330
1000	102	10 × 20	0.057	1100	12.5×20	0.042	1490	12.5 × 25	0.033	1750	16 × 25	0.031	2010
2200	222	12.5 × 25	0.033	1750	16 × 25	0.024	2300	16 × 31.5	0.020	2710			
3300	332	16 × 25	0.024	2300	16 × 31.5	0.020	2710						
4700	472	16 × 31.5	0.020	2710									

	V(Code) 50 (1H)		63 (1J)			80 (1K)			100 (2A)				
Cap. Co	Item	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)
4.7	4R7	8 × 11.5	1.15	85									
10	100	8 × 11.5	0.75	180							8 × 11.5	1.50	150
22	220	8 × 11.5	0.50	250	8 × 11.5	2.00	130	8 × 11.5	1.50	150	10 × 12.5	0.80	480
33	330	8 × 11.5	0.45	300	8 × 11.5	1.50	150	10 × 12.5	0.80	480	10 × 12.5	0.80	480
47	470	8 × 11.5	0.35	440	10 × 12.5	0.59	530	10 × 12.5	0.80	480	10 × 16	0.55	630
100	101	10 × 12.5	0.18	555	10 × 16	0.41	690	10 × 20	0.39	790	12.5 × 20	0.25	990
220	221	10 × 20	0.098	930	12.5 × 20	0.16	1050	12.5 × 25	0.18	1240	16 × 25	0.11	1500
330	331	12.5 × 20	0.07	1330	12.5 × 25	0.12	1290	12.5 × 31.5	0.16	1390	16 × 31.5	0.079	1790
470	471	12.5 × 25	0.055	1650	12.5 × 31.5	0.097	1460	16 × 25	0.11	1500			
1000	102	16 × 31.5	0.031	2430	16 × 31.5	0.055	1900						

Rated ripple current (mArms) at 135°C 100kHz Impedance (Ω) MAX. at 20°C 100kHz

• Frequency coefficient of rated ripple current

V	CV	120Hz	300Hz	1kHz	10kHz or more
401 400	1000 > CV	0.50	0.64	0.83	1.00
10 to 100	1000 ≦ CV	0.67	0.79	0.91	1.00

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Nichicon:

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UBW1K101MPD UBW1J101MPD UBW1J102MHD UBW1J220MPD UBW1J221MHD UBW1J330MPD
UBW1J331MHD UBW1C471MPD UBW1J471MHD UBW1H4R7MPD UBW1K220MPD UBW1K221MHD
UBW1K330MPD UBW1K331MHD UBW1K471MHD UBW1J470MPD UBW1H102MHD UBW1E102MHD
UBW1E221MPD UBW1E222MHD UBW1E331MPD UBW1E471MPD UBW1H010MPD UBW1H101MPD
UBW1H470MPD UBW1H2R2MPD UBW1H220MPD UBW1H221MPD UBW1H3R3MPD UBW1H330MPD
UBW1V331MPD UBW1H100MPD UBW1V102MHD UBW2A470MPD UBW1C332MHD UBW2A100MPD
UBW2A220MPD UBW2A330MPD UBW2A4R7MPD UBW1V221MPD UBW1E101MPD UBW1A332MHD
UBW1A102MPD UBW1A221MPD UBW1A331MPD UBW1A471MPD UBW1A472MHD UBW1C101MPD
UBW1C102MHD UBW1C221MPD UBW1C222MHD UBW1C331MPD UBW1A222MHD UBW1V101MPD
UBW1K470MPD UBW2A101MPD UBW2A221MPD UBW2A331MPD UBW1H331MHD UBW2A101MHD
UBW2A331MHD UBW1C221MPD1TD UBW2A330MPD1TD UBW1C331MPD1TD UBW1H220MPD1TD
UBW1J220MPD1TD UBW2A4R7MPD1TD UBW1V101MPD1TD UBW2A221MHD1TN UBW1E471MPD1TD
UBW1A332MHD1TN UBW1H010MPD1TD UBW1C101MPD1TD UBW1K471MHD1TN UBW1E101MPD1TD
UBW1K221MHD1TO UBW1H101MPD1TD UBW1V331MPD1TD UBW1J330MPD1TD UBW2A470MPD1TD
UBW1H470MPD1TD UBW1K101MPD1TD UBW1A102MPD1TD UBW1E331MPD1TD UBW1H221MPD1TD
UBW1K220MPD1TD UBW1H471MHD1TO UBW1J470MPD1TD UBW1J101MPD1TD UBW1H330MPD1TD
UBW1H2R2MPD1TD UBW1A221MPD1TD UBW1H100MPD1TD UBW1V102MHD1TN UBW1E221MPD1TD
UBW1K330MPD1TD UBW1V221MPD1TD UBW1H471MHD UBW1V471MHD UBW2A221MHD
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