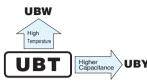
UBT

High Temperature Range, For +125°C Use



- Anti-Solvent Feature (Through
- 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).
- AEC-Q200 compliant. Please contact us for details.

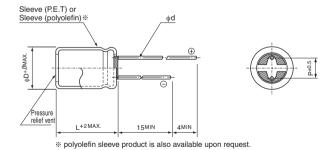




■ Specifications

Item		Performance Characteristics													
Category Temperature Range	-40 to +125°C (1	10 to 250V), -25 to	+125°C	(350 to 4	50V)									
Rated Voltage Range	10 to 450V														
Rated Capacitance Range	4.7 to 4700µF	to 4700μF													
Capacitance Tolerance	±20% at 120Hz,	0% at 120Hz, 20°C													
	Rated Voltage (V)			10) to 100							160 to 45	0		
Leakage Current	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.											V+40 (μΑ CV+100 (μ	,	·.	
	Rated voltage (V) 10	16	25	35	50	63	80	10	0 16	60 to 250	350 to 450	120Hz,	20°C	
Tangent of loss angle (tan δ)	tan δ (MAX.)	0.20	0.16	0.14	0.12	0.10	0.10	0.08		_	0.20	0.24			
	For capacitance of more than 1000μF, add 0.02 for every increase of 1000μF.														
	120Hz														
Stability at Low Temperature		d voltage (V)			16	25	35	_	50	63	80	100		250 350	
,	Impedance ration ZT / Z20 (MAX.		C / Z+20°C C / Z+20°C		4	2	4	_	2	2	2	4	6		6
	21 / 220 (WAX.) 2-40 (3 / Z+20 C	4	4	4	4		4	4	4	4	0		
	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 =						Capacitance change				Within ±30% of the initial capacitance value (10 to 100V) Within ±20% of the initial capacitance value (160 to 450V)				
Endurance	8 : 2000 hours, ¢	to 100V (φD = 8 : 2	000 hour	s, φD =	tan δ			300% or less than the initial specified value (10 to 100V) 200% or less than the initial specified value (160 to 450V)						
	160V (2000 hour	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. 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	e color lette	er on blue	sleeve.											

■Radial Lead Type

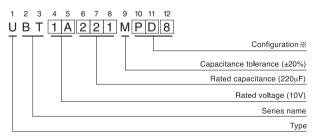


φD	8	10	12.5	16	18
β	8.0	0.8	1.0	1.0	1.0
Р	3.5	5.0	5.0	7.5	7.5
φd	0.6	0.6	0.6*	8.0	0.8

% In case L $\,>$ 25 for the $\varphi12.5$ dia. unit, lead dia. φ d = 0.8mm.

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

Type numbering system (Example : $10V 220 \mu F$)



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.

UBT

■ Dimensions

	V (Code) 10 (1A)			16	(1C)		25 (1E)			35 (1V)			50 (1H)			
Cap.	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)	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
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									

V(Code) Item Cap. Co		63	3 (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)	
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 (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

V(Code)		160 (2C)		200 (2D)		250 (2E)		350 (2V)		400 (2G)		450 (2W)	
Cap.	Item Code	Case size $\phi D \times L$ (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 × 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 x 25	126	12.5 x 20	128	12.5 × 25	139	12.5 × 31.5	142	16 x 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 x 25	204	16 x 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 x 25	329								
150	151	16 x 31.5	434										

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

• Frequency coefficient of rated ripple current

	,						
V	Cap. (µF)	50Hz	120Hz	300Hz	1kHz	10kHz	100kHz or more
	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

Mouser Electronics

Authorized Distributor

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

Nichicon:

```
UBT1C332MHD UBT1C471MPD UBT1C472MHD UBT1E101MPD UBT1H330MPD UBT1H331MHD
UBT1H3R3MPD UBT1K221MHD UBT1K330MPD UBT1K331MHD UBT1K470MPD UBT1K471MHD
UBT1C102MHD UBT1C221MPD UBT1C222MHD UBT1C331MPD UBT1H102MHD UBT1H220MPD
UBT1H221MPD UBT1H2R2MPD UBT1A331MPD UBT1A332MHD UBT1A471MPD UBT1A472MHD
UBT1C101MPD UBT1E471MPD UBT1H010MPD UBT1H100MPD UBT1H101MPD UBT1J220MPD UBT1J221MHD
UBT1H4R7MPD UBT1J101MPD UBT1K471MHD1TN UBT1V101MPD UBT1V102MHD UBT1V221MPD
UBT1V222MHD UBT2A4R7MPD UBT2C101MHD UBT2C151MHD UBT2C220MPD UBT2G220MHD
UBT2G330MHD UBT2G470MHD UBT1J470MPD UBT1J471MHD UBT1K101MPD UBT1K220MPD UBT2A220MPD
UBT2A221MHD UBT2A330MPD UBT2A331MHD UBT2A470MPD UBT2E100MPD UBT2E220MHD
UBT2E330MHD UBT2E470MHD UBT2E680MHD UBT1V331MPD UBT1V471MHD UBT2A100MPD
UBT2A101MHD UBT2D220MPD UBT2D330MHD UBT2D470MHD UBT2D680MHD UBT2V4R7MPD
UBT2W100MHD UBT2W220MHD UBT2W330MHD UBT2W4R7MPD UBT2C330MPD UBT2C470MHD
UBT2C680MHD UBT2D100MPD UBT2D101MHD UBT2G4R7MPD UBT2V100MPD UBT2V220MHD
UBT2V330MHD UBT2V470MHD UBT1V470MPD UBT1E470MPD UBT2A100MHD UBT1H100MPD1TD
UBT1A221MPD1TD UBT2A221MHD8
```