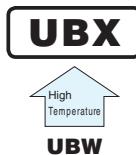


UBX

High Temperature Range, For +150°C Use



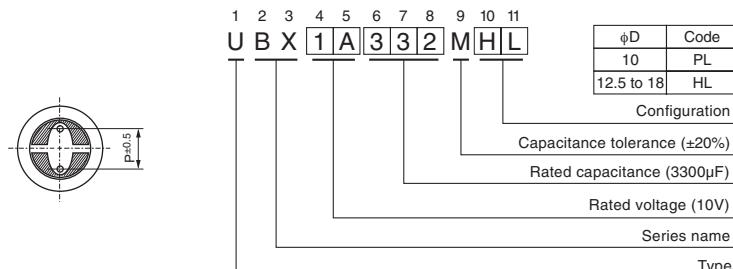
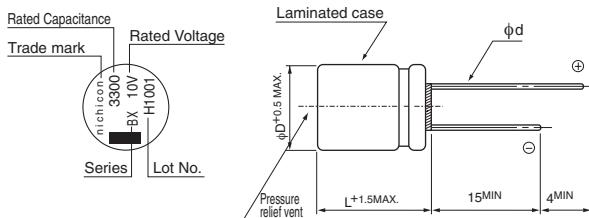
- Laminated case series.
- Suited for automobile electronics where heavy duty services are indispensable.
- Compliant to the RoHS directive (2011/65/EU, (EU)2015/863).
- AEC-Q200 compliant. Please contact us for details.

**■ Specifications**

Item	Performance Characteristics										
Category Temperature Range	-55 to +150°C (10 to 100V), -40 to +150°C (160 · 200V), -25 to +150°C (350 · 400V)										
Rated Voltage Range	10 to 400V										
Rated Capacitance Range	2.2 to 4700μF										
Capacitance Tolerance	±20% at 120Hz, 20°C										
Leakage Current	Rated Voltage (V)	10 to 100								160 to 400	
	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.								After 1 minute's application of rated voltage at 20°C, I = 0.04CV+100 (μA) or less.	
Tangent of loss angle (tan δ)	Rated voltage (V)	10	16	25	35	50	63	80	100	160 · 200	350 · 400
	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)	10	16	25	35	50	63	80	100	160 · 200	350 · 400
	Impedance ratio (MAX.)	Z-25°C / Z+20°C	3	2	2	2	2	2	2	3	6
		Z-40°C / Z+20°C	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 2000 hours (1000 hours for φD=10 and 12.5) at 150°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 400V)				
						tan δ	300% or less than the initial specified value (10 to 100V) 200% or less than the initial specified value (160 to 400V)				
						Leakage current	Less than or equal to the initial specified value				
Marking	Black print on the case top.										

■ Radial Lead Type

Type numbering system (Example : 10V 3300μF)

**● Frequency coefficient of rated ripple current**

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

V	Cap. (μF)	Frequency	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 400		47 to 100	0.80	1.00	1.15	1.30	1.40	1.50

• Please refer to page 18 about the end seal configuration.

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■ Dimensions

Rated Voltage (V) (code)	Rated Capacitance (μ F)	Case Size ϕ D×L(mm)	tan δ	Leakage Current (μ A) (at 20°C after 1 minute)	Rated Ripple (mArms)		Part Number
					150°C/ 100kHz	150°C/ 120Hz	
10 (1A)	330	10×16	0.20	99	300	—	UBX1A331MPL
	470	10×20	0.20	141	400	—	UBX1A471MPL
	1000	12.5×25	0.20	300	600	—	UBX1A102MHL
	2200	16×31.5	0.22	660	1000	—	UBX1A222MHL
	3300	18×35.5	0.24	990	1200	—	UBX1A332MHL
	4700	18×40	0.26	1410	1300	—	UBX1A472MHL
16 (1C)	220	10×16	0.16	105.6	300	—	UBX1C221MPL
	330	10×20	0.16	158.4	400	—	UBX1C331MPL
	470	12.5×20	0.16	225.6	600	—	UBX1C471MHL
	1000	16×25	0.16	480	800	—	UBX1C102MHL
	2200	18×35.5	0.18	1056	1200	—	UBX1C222MHL
	3300	18×40	0.20	1584	1300	—	UBX1C332MHL
25 (1E)	100	10×12.5	0.14	75	250	—	UBX1E101MPL
	220	12.5×20	0.14	165	500	—	UBX1E221MHL
	330	12.5×25	0.14	247.5	600	—	UBX1E331MHL
	470	16×25	0.14	352.5	800	—	UBX1E471MHL
	1000	16×31.5	0.14	750	1000	—	UBX1E102MHL
35 (1V)	2.2	10×12.5	0.12	4	50	—	UBX1V2R2MPL
	3.3	10×12.5	0.12	4	60	—	UBX1V3R3MPL
	4.7	10×12.5	0.12	4.935	85	—	UBX1V4R7MPL
	10	10×12.5	0.12	10.5	175	—	UBX1V100MPL
	22	10×12.5	0.12	23.1	200	—	UBX1V220MPL
	33	10×12.5	0.12	34.65	225	—	UBX1V330MPL
	47	10×12.5	0.12	49.35	250	—	UBX1V470MPL
	100	10×20	0.12	105	400	—	UBX1V101MPL
	220	12.5×25	0.12	231	600	—	UBX1V221MHL
	330	16×25	0.12	346.5	800	—	UBX1V331MHL
	470	16×31.5	0.12	493.5	1000	—	UBX1V471MHL
	1000	18×40	0.12	1050	1300	—	UBX1V102MHL
50 (1H)	100	10×12.5	0.10	150	380	—	UBX1H101MPL
	220	10×20	0.10	330	640	—	UBX1H221MPL
	330	12.5×20	0.10	495	770	—	UBX1H331MHL
	470	12.5×25	0.10	705	960	—	UBX1H471MHL
	560	12.5×31.5	0.10	840	1080	—	UBX1H561MHL
	680	16×25	0.10	1020	1190	—	UBX1H681MHL
	1000	16×31.5	0.10	1500	1420	—	UBX1H102MHL
63 (1J)	56	10×12.5	0.10	105.84	430	—	UBX1J560MPL
	68	10×16	0.10	128.52	560	—	UBX1J680MPL
	100	10×20	0.10	189	710	—	UBX1J101MPL
	220	12.5×25	0.10	415.8	1040	—	UBX1J221MHL
	330	12.5×31.5	0.10	623.7	1170	—	UBX1J331MHL
	470	16×25	0.10	888.3	1280	—	UBX1J471MHL
	560	16×31.5	0.10	1058.4	1520	—	UBX1J561MHL
	680	16×35.5	0.10	1285.2	1520	—	UBX1J681MHL

For cut leads, formed leads or taped parts, please add the appropriate code after the size code (12th digit).
If there is no size code in the part number, please add size code "1" and then add the appropriate code.

UBX

■Dimensions

Rated Voltage (V) (code)	Rated Capacitance (μ F)	Case Size ϕ D×L (mm)	tan δ	Leakage Current (μ A) (at 20°C after 1 minute)	Rated Ripple (mArms)		Part Number
					150°C/ 100kHz	150°C/ 120Hz	
80 (1K)	33	10×12.5	0.08	79.2	420	—	UBX1K330MPL
	47	10×16	0.08	112.8	550	—	UBX1K470MPL
	56	10×20	0.08	134.4	690	—	UBX1K560MPL
	68	10×20	0.08	163.2	690	—	UBX1K680MPL
	100	12.5×20	0.08	240	820	—	UBX1K101MHL
	220	16×25	0.08	528	1250	—	UBX1K221MHL
	330	16×31.5	0.08	792	1480	—	UBX1K331MHL
	470	18×31.5	0.08	1128	1530	—	UBX1K471MHL
100 (2A)	22	10×12.5	0.08	66	390	—	UBX2A220MPL
	33	10×16	0.08	99	510	—	UBX2A330MPL
	47	10×20	0.08	141	640	—	UBX2A470MPL
	56	10×20	0.08	168	640	—	UBX2A560MPL
	68	12.5×20	0.08	204	760	—	UBX2A680MHL
	100	12.5×25	0.08	300	950	—	UBX2A101MHL
	220	16×31.5	0.08	660	1380	—	UBX2A221MHL
	330	18×31.5	0.08	990	1430	—	UBX2A331MHL
160 (2C)	10	10×12.5	0.20	164	—	110	UBX2C100MPL
	15	10×12.5	0.20	196	—	110	UBX2C150MPL
	22	10×16	0.20	240.8	—	160	UBX2C220MPL
	33	12.5×20	0.20	311.2	—	230	UBX2C330MHL
	47	12.5×20	0.20	400.8	—	250	UBX2C470MHL
	56	12.5×25	0.20	458.4	—	270	UBX2C560MHL
	68	16×20	0.20	535.2	—	290	UBX2C680MHL
	100	16×25	0.20	740	—	300	UBX2C101MHL
200 (2D)	6.8	10×12.5	0.20	154.4	—	83	UBX2D6R8MPL
	10	10×12.5	0.20	180	—	83	UBX2D100MPL
	15	10×16	0.20	220	—	130	UBX2D150MPL
	22	10×20	0.20	276	—	170	UBX2D220MPL
	33	12.5×20	0.20	364	—	210	UBX2D330MHL
	47	12.5×25	0.20	476	—	250	UBX2D470MHL
	56	16×20	0.20	548	—	270	UBX2D560MHL
	68	16×25	0.20	644	—	290	UBX2D680MHL
350 (2V)	4.7	10×16	0.24	165.8	—	77	UBX2V4R7MPL
	6.8	10×20	0.24	195.2	—	110	UBX2V6R8MPL
	10	12.5×20	0.24	240	—	120	UBX2V100MHL
	15	12.5×25	0.24	310	—	130	UBX2V150MHL
400 (2G)	4.7	10×20	0.24	175.2	—	83	UBX2G4R7MPL
	6.8	12.5×20	0.24	208.8	—	88	UBX2G6R8MHL
	10	12.5×25	0.24	260	—	105	UBX2G100MHL
	15	12.5×25	0.24	340	—	105	UBX2G150MHL

For cut leads, formed leads or taped parts, please add the appropriate code after the size code (12th digit).
 If there is no size code in the part number, please add size code "1" and then add the appropriate code.

Please refer to page 18, 19 about the formed or taped product spec.
 Please refer to page 4 for the minimum order quantity.

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