

ALUMINUM ELECTROLYTIC CAPACITORS

宝创UBXLAB0.MHL供应商

捷多邦, 专业PCB打样工厂, 24小时加急出货

nichicon

BX series

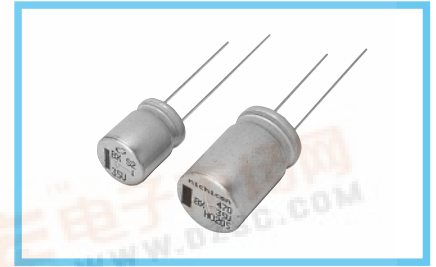
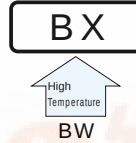
High Temperature Range, For +150°C Use



Long Life

Anti-Solvent Feature

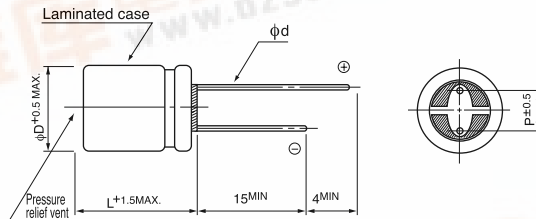
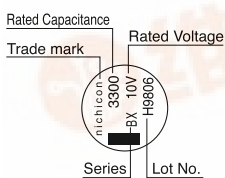
- Laminated case series.
- Suited for automobile electronics where heavy duty services are indispensable.
- Adapted to the RoHS directive (2002/95/EC).



Item	Performance Characteristics														
Category Temperature Range	-55 ~ +150°C (10 ~ 100V), -40 ~ +150°C (160 ~ 200V), -25 ~ +150°C (350 ~ 400V),														
Rated Voltage Range	10 ~ 400V														
Rated Capacitance Range	1 ~ 4700μF														
Capacitance Tolerance	±20% at 120Hz, 20°C														
Leakage Current	Rated Voltage (V)	10 ~ 100								160 ~ 400					
	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)					
tan δ	Rated voltage (V)	10	16	25	35	50	63	80	100	160~200	350~400	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)				10	16	25	35	50	63	80	100	160~200	350~400	120Hz
	Impedance ratio	Z-25°C / Z+20°C			3	2	2	2	2	2	2	3	6		
	ZT / Z20 (MAX.)	Z-40°C / Z+20°C			4	4	4	4	4	4	4	6	-		
Endurance	After an application of D.C. bias voltage plus the rated ripple current for 2000 hours (1000 hours for φD =10 and 12.5) at 150°C the peak voltage shall not exceed the rated D.C. voltage, capacitors meet the characteristics requirements listed at right.								Capacitance change		Within ±30% of initial value (10 ~ 100V) Within ±20% of initial value (160 ~ 400V)				
									Dissipation Factor		300% or less of initial specified value (10 ~ 100V) 200% or less of initial specified value(160 ~ 400V)				
									Leakage current		Initial specified value or less				
Marking	Black print on the case top.														

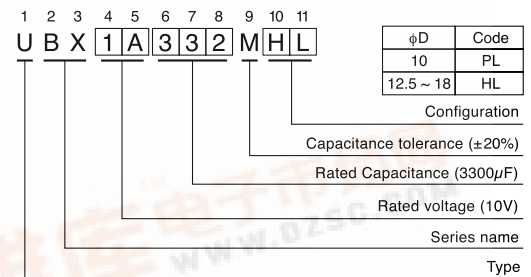
Radial Lead Type

Type numbering system (Example : 10V 3300μF)



	10	12.5	16	18
φD	10	12.5	16	18
P	5.0	5.0	7.5	7.5
φd	0.6	0.6	0.8	0.8

(mm)



- Please refer to page 21 about the end seal configuration.



Please refer to page 21, 22, 23 about the formed or taped product spec.
Please refer to page 3 for the minimum order quantity.

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■ Dimensions

Cap. (μ F)	V (Code)		10		16		25		35	
	Code		1A		1C		1E		1V	
1	010								10 × 12.5	35
2.2	2R2								10 × 12.5	50
3.3	3R3								10 × 12.5	60
4.7	4R7								10 × 12.5	85
10	100								10 × 12.5	175
22	220								10 × 12.5	200
33	330								10 × 12.5	225
47	470								10 × 12.5	250
100	101						10 × 12.5	250	10 × 20	400
220	221				10 × 16	300	12.5 × 20	500	12.5 × 25	600
330	331	10 × 16	300	10 × 20	400	12.5 × 25	600	16 × 25	800	800
470	471	10 × 20	400	12.5 × 20	600	16 × 25	800	16 × 31.5	1000	1000
1000	102	12.5 × 25	600	16 × 25	800	16 × 31.5	1000	18 × 40	1300	1300
2200	222	16 × 31.5	1000	18 × 35.5	1200					
3300	332	18 × 35.5	1200	18 × 40	1300					
4700	472	18 × 40	1300						Case Size ϕ D × L (mm)	Rated Ripple

Cap. (μ F)	V (Code)		50		63		80		100	
	Code		1H		1J		1K		2A	
22	220								10 × 12.5	390
33	330						10 × 12.5	420	10 × 16	510
47	470						10 × 16	550	10 × 20	640
56	560				10 × 12.5	430	10 × 20	690	10 × 20	640
68	680				10 × 16	560	10 × 20	690	12.5 × 20	760
100	101	10 × 12.5	380	10 × 20	710	12.5 × 20	820	12.5 × 25	950	950
220	221	10 × 20	640	12.5 × 25	1040	16 × 25	1250	16 × 31.5	1380	1380
330	331	12.5 × 20	770	12.5 × 31.5	1170	16 × 31.5	1480	18 × 31.5	1430	1430
470	471	12.5 × 25	960	16 × 25	1280	18 × 31.5	1530			
560	561	12.5 × 31.5	1080	16 × 31.5	1520					
680	681	16 × 25	1190	16 × 35.5	1520					
1000	102	16 × 31.5	1420						Case Size ϕ D × L (mm)	Rated Ripple

Rated Ripple (mA_{rms}) at 150°C 100kHz

● Frequency coefficient of rated ripple current

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

Cap. (μ F)	V (Code)		160		200		350		400	
	Code		2C		2D		2V		2G	
4.7	4R7						10 × 16	77	10 × 20	83
6.8	6R8				10 × 12.5	83	10 × 20	110	12.5 × 20	88
10	100	10 × 12.5	110	10 × 12.5	83	12.5 × 20	120	12.5 × 25	105	105
15	150	10 × 12.5	110	10 × 16	130	12.5 × 25	130	12.5 × 25	105	105
22	220	10 × 16	160	10 × 20	170					
33	330	12.5 × 20	230	12.5 × 20	210					
47	470	12.5 × 20	250	12.5 × 25	250					
56	560	12.5 × 25	270	16 × 20	270					
68	680	16 × 20	290	16 × 25	290					
100	101	16 × 25	300						Case Size ϕ D × L (mm)	Rated Ripple

Rated Ripple (mA_{rms}) at 150°C 120Hz

● Frequency coefficient of rated ripple current

V	Cap. (μ F)	Frequency	50Hz	120Hz	300Hz	1kHz	10kHz	100kHz
160 ~ 400		4.7 ~ 33	0.75	1.00	1.25	1.50	1.75	1.80
		47 ~ 100	0.80	1.00	1.15	1.30	1.40	1.50