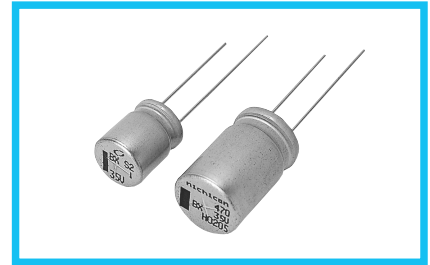


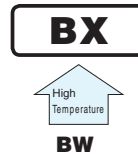
ALUMINUM ELECTROLYTIC CAPACITORS

nichicon

BX series High Temperature Range, For +150°C Use

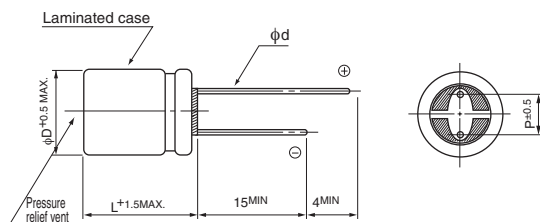
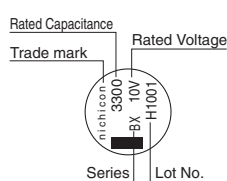


- Laminated case series.
- Suited for automobile electronics where heavy duty services are indispensable.
- Compliant to the RoHS directive (2011/65/EU).



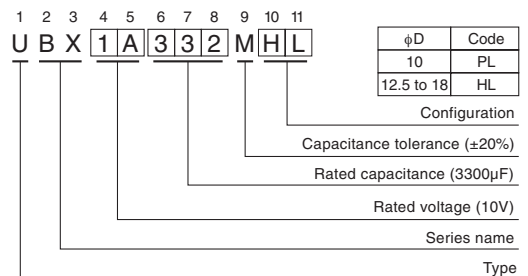
Item	Performance Characteristics														
Category Temperature Range	-55 to +150°C (10 to 100V), -40 to +150°C (160 · 200V), -25 to +150°C (350 · 400V)														
Rated Voltage Range	10 to 400V														
Rated Capacitance Range	1 to 4700μF														
Capacitance Tolerance	±20% at 120Hz, 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.								CV ≤ 1000 : I = 0.1CV+40 (μA) max. CV > 1000 : I = 0.04CV+100 (μA) max.					
Tangent of loss angle (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	2	3	6	
	ZT / Z20 (MAX.)		Z-40°C / Z+20°C		4	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)												
Marking	Black print on the case top.														
	Leakage current														

Radial Lead Type



	(mm)			
φD	10	12.5	16	18
P	5.0	5.0	7.5	7.5
φd	0.6	0.6	0.8	0.8

Type numbering system (Example : 10V 3300μF)



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

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.

CAT.8100D

■ Dimensions

Cap. (μF)	V (Code) Code	10		16		25		35	
		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
470	471	10 × 20	400	12.5 × 20	600	16 × 25	800	16 × 31.5	1000
1000	102	12.5 × 25	600	16 × 25	800	16 × 31.5	1000	18 × 40	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. (μF)	V (Code) Code	50		63		80		100	
		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
220	221	10 × 20	640	12.5 × 25	1040	16 × 25	1250	16 × 31.5	1380
330	331	12.5 × 20	770	12.5 × 31.5	1170	16 × 31.5	1480	18 × 31.5	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

● Frequency coefficient of rated ripple current

Rated ripple current (mArms) at 150°C 100kHz

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

Cap. (μF)	V (Code) Code	160		200		350		400	
		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
15	150	10 × 12.5	110	10 × 16	130	12.5 × 25	130	12.5 × 25	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 current (mArms) at 150°C 120Hz

● Frequency coefficient of rated ripple current

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