

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.



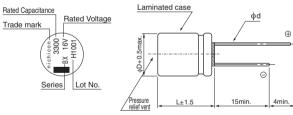


■ Specifications

Item	Performance Characteristics											
Category Temperature Range	−55 to +150°C (16 to 100V), −40 to +150°C (160 · 200V), −25 to +150°C (350 · 400V)											
Rated Voltage Range	16 to 400V											
Rated Capacitance Range	6.8 to 3300μF											
Capacitance Tolerance	±20% at 120Hz, 20°C											
	Rated Voltage (V)		1	6 to 10	00							160 to 400
Leakage Current ※	Leakage current	After 1 minute's application of rated voltage at 20°C, leakage current is not more than 0.03CV (μA).							After 1 minute's application of rated voltage at 20°C, I = 0.04CV+100 (μ A) or less.			
Tangent of loss angle (tan δ)	Rated voltage (V) 16 25 35 50 63 80 100 160·200 350·400 tan δ (max.) 0.16 0.14 0.12 0.10 0.10 0.08 0.08 0.20 0.24 120Hz 20°C For capacitance of more than 1000μF, add 0.02 for every increase of 1000μF.											
Stability at Low Temperature	Rated Impedance ratio (max.)	voltage (V) Z(-25°C) / Z(+20°C) Z(-40°C) / Z(+20°C)	16 2 4	25 2 4	35 2 4	50 2 4	63 2 4	80 2 4	100	3 6	350 · 400 6 -	120Hz
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 \$\phi\$12.5) at 150°C, the peak voltage shall not exceed the rated voltage.			rated for								
Marking	Black print on the	e case top.										

 $\label{eq:interpolation} \&~I: Leakage~Current(\mu A),~C: Rated~Capacitance(\mu F),~V: Rated~Voltage(V)$

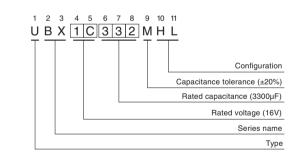
■ Radial Lead Type



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

 Please refer to the Guidelines for Aluminum Electrolytic Capacitors for end seal configuration information.

Type numbering system (Example: 16V 3300µF)



• Frequency coefficient of rated ripple current

V	CV	120Hz	300Hz	1kHz	10kHz or more
101 100	1000 > CV	0.50	0.64	0.83	1.00
16 to 100	1000 ≦ CV	0.67	0.79	0.91	1.00

V	Cap. (μF)	50Hz	120Hz	300Hz	1kHz	10kHz	100kHz or more
100 to 100	6.8 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

UBX

■ Dimensions

Rated Voltage	Rated Capacitance	Case Size	tan δ	Leakage Current (µA)	Rated (mA	Ripple rms)	- Part Number
(code)	ode) (μF) φD×L(mm)		(at 20°C after) 1 minute	150℃/ 100kHz	150℃/ 120Hz	i dir Number	
	470	12.5×20	0.16	225.6	600	_	UBX1C471MHL
16	1000	16×25	0.16	480	800	_	UBX1C102MHL
(1C)	2200	18×35.5	0.18	1056	1200	_	UBX1C222MHL
	3300	18×40	0.20	1584	1300	_	UBX1C332MHL
	220	12.5×20	0.14	165	500	_	UBX1E221MHL
25	330	12.5×25	0.14	247.5	600	_	UBX1E331MHL
(1E)	470	16×25	0.14	352.5	800	_	UBX1E471MHL
	1000	16×30.5	0.14	750	1000	_	UBX1E102MHL
	220	12.5×25	0.12	231	600	_	UBX1V221MHL
35	330	16×25	0.12	346.5	800	_	UBX1V331MHL
(1V)	470	16×30.5	0.12	493.5	1000	_	UBX1V471MHL
	1000	18×40	0.12	1050	1300	_	UBX1V102MHL
	330	12.5×20	0.10	495	770	_	UBX1H331MHL
[470	12.5×25	0.10	705	960	_	UBX1H471MHL
50 (1H)	560	12.5×30.5	0.10	840	1080	_	UBX1H561MHL
(/	680	16×25	0.10	1020	1190	_	UBX1H681MHL
	1000	16×30.5	0.10	1500	1420	_	UBX1H102MHL
	220	12.5×25	0.10	415.8	1040	_	UBX1J221MHL
	330	12.5×30.5	0.10	623.7	1170	_	UBX1J331MHL
63 (1J)	470	16×25	0.10	888.3	1280	_	UBX1J471MHL
	560	16×30.5	0.10	1058.4	1520	_	UBX1J561MHL
	680	16×35.5	0.10	1285.2	1520	_	UBX1J681MHL
	100	12.5×20	0.08	240	820	_	UBX1K101MHL
80	220	16×25	0.08	528	1250	_	UBX1K221MHL
(1K)	330	16×30.5	0.08	792	1480	_	UBX1K331MHL
	470	18×30.5	0.08	1128	1530	_	UBX1K471MHL
	68	12.5×20	0.08	204	760	_	UBX2A680MHL
100	100	12.5×25	0.08	300	950	_	UBX2A101MHL
(2A)	220	16×30.5	0.08	660	1380	_	UBX2A221MHL
	330	18×30.5	0.08	990	1430	_	UBX2A331MHL
	33	12.5×20	0.20	311.2	_	230	UBX2C330MHL
	47	12.5×20	0.20	400.8	_	250	UBX2C470MHL
160 (2C)	56	12.5×25	0.20	458.4	_	270	UBX2C560MHL
(20)	68	16×20	0.20	535.2	_	290	UBX2C680MHL
	100	16×25	0.20	740	_	300	UBX2C101MHL
	33	12.5×20	0.20	364	_	210	UBX2D330MHL
200 (2D)	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	10	12.5×20	0.24	240	_	120	UBX2V100MHL
(2V)	15	12.5×25	0.24	310	_	130	UBX2V150MHL
	6.8	12.5×20	0.24	208.8	_	88	UBX2G6R8MHL
400 (2G)	10	12.5×25	0.24	260	_	105	UBX2G100MHL
(20)	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.

[•] For formed lead or taped product specifications and minimum order quantity, please refer to the Guidelines for Aluminum Electrolytic Capacitors.