

# MINIATURE ALUMINUM ELECTROLYTIC CAPACITORS

## I14073 (BX)

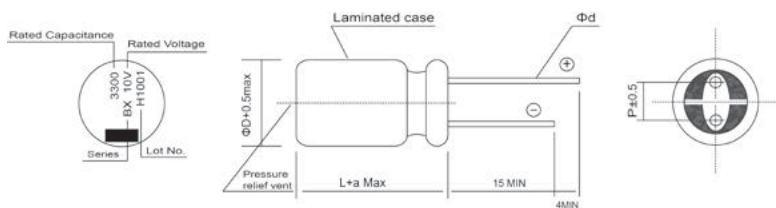
High Temperature Range, For +150°C Use Series

- Laminated case series
- Suited for automobile electronics where heavy duty services are indispensable
- Complied to the RoHS directive

Items	Performance characteristics										
<b>Operating temperature range</b>	-55 ~ +150°C (10V ~ 100V), -40 to +150°C (160V,200V), -25 to +150°C (350V,400V)										
<b>Leakage current max.</b>	WV ≤ 100					WV > 100					
	I = 0.03CV or 4μA whichever is greater (after 1 minute)					I = 0.04CV + 100μA (after 1 minute)					
<b>Capacitance tolerance</b>	±20% at 120Hz, 20°C										
<b>Dissipation factor max. (at 120Hz,20°C)</b>	Capacitance > 1000μF: tanδ increases by 0.02 for each 1000μF from below value.										
	WV	10	16	25	35	50	63	80	100	160,200	350,400
	Tanδ	0.20	0.16	0.14	0.12	0.10	0.10	0.08	0.08	0.20	0.24
<b>Low temperature characteristics (Impedance ratio at 120Hz)</b>	WV	10	16	25	35	50	63	80	100	160,200	350,400
	Z-25°C /Z+20°C	3	2	2	2	2	2	2	2	3	6
	Z-40°C /Z+20°C	4	4	4	4	4	4	4	4	6	-
<b>Load life (after application of the rated voltage for 2000 hours at 150°C)</b>	WV	10 ~ 100			160 ~ 400						
	Leakage current	Less than specified value									
	Capacitance change	Within ±30% of initial value					Within ±20% of initial value				
	Tanδ	Less than 300% of specified value					Less than 200% of specified value				
	Φ10,Φ12.5:1000 hours.										
<b>Shelf life (at 150°C)</b>	After 1000 hours no load test, leakage current, capacitance and tanδ are same as load life value.										

### ● DRAWING

Unit : mm



ΦD	10	12.5	16	18
F	5.0	5.0	7.5	7.5
Φd	0.6		0.8	
α	2.0			

### ● FREQUENCY COEFFICIENT OF PERMISSIBLE RIPPLE CURRENT

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

V	Frequency		50Hz	120Hz	300Hz	1kHz	10kHz	100kHz≤
	Cap.(μF)							
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

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## I14073 (BX) Series

● DIMENSIONS & MAXIMUM PERMISSIBLE RIPPLE CURRENT

μF \ WV	10		16		25		35	
	2.2							10×12.5
3.3							10×12.5	60
4.7							10×12.5	85
10							10×12.5	175
22							10×12.5	200
33							10×12.5	225
47							10×12.5	250
100					10×12.5	250	10×20	400
220			10×16	300	12.5×20	500	12.5×25	600
330	10×16	300	10×20	400	12.5×25	600	16×25	800
470	10×20	400	12.5×20	600	16×25	800	16×31.5	1000
1000	12.5×25	600	16×25	800	16×31.5	1000	18×40	1300
2200	16×31.5	1000	18×35.5	1200	Case size ΦD×L(mm)			
3300	18×35.5	1200	18×40	1300	Ripple current (mA rms) at 150°C, 100kHz			
4700	18×40	1300						

μF \ WV	50		63		80		100	
	22							10×12.5
33					10×12.5	420	10×16	510
47					10×16	550	10×20	640
56			10×12.5	430	10×20	690	10×20	640
68			10×16	560	10×20	690	12.5×20	760
100	10×12.5	380	10×20	710	12.5×20	820	12.5×25	950
220	10×20	640	12.5×25	1040	16×25	1250	16×31.5	1380
330	12.5×20	770	12.5×31.5	1170	16×31.5	1480	18×31.5	1430
470	12.5×25	960	16×25	1280	18×31.5	1530		
560	12.5×31.5	1080	16×31.5	1520	Case size ΦD×L(mm)			
680	16×25	1190	16×35.5	1520	Ripple current (mA rms) at 150°C, 100kHz			
1000	16×31.5	1420						

μF \ WV	160		200		350		400	
	4.7					10×16	77	10×20
6.8			10×12.5	83	10×20	110	12.5×20	88
10	10×12.5	110	10×12.5	83	12.5×20	120	12.5×25	105
15	10×12.5	110	10×16	130	12.5×25	130	12.5×25	105
22	10×16	160	10×20	170	Case size ΦD×L(mm)			
33	12.5×20	230	12.5×20	210	Ripple current (mA rms) at 150°C, 120Hz			
47	12.5×20	250	12.5×25	250				
56	12.5×25	270	16×20	270				
68	16×20	290	16×25	290				
100	16×25	300						