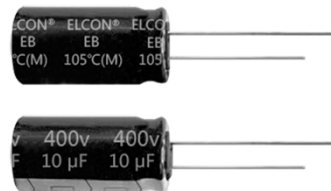


### EB Series

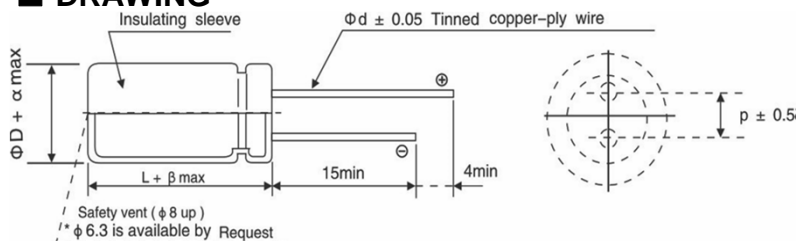
- 105°C, long life, high ripple current, high frequency
- 3000 hours guaranteed for WV ≤ 100V  
4000~7000 hours guaranteed for WV=160~250V  
5000 hours guaranteed for WV=350~450V



### SPECIFICATIONS

Item	Characteristics										
Category Temperature Range	-40 ~ +105℃							-25 ~ +105℃			
Voltage Range	10 ~ 100V.DC							160 ~ 450V.DC			
Capacitance Tolerance	± 20 % (at 120Hz , 20℃)										
Nominal Cap. Range	0.47 ~ 3300μF										
Leakage Current	I=0.01CV or 3 μA ,whichever is greater (After 2 minutes). where, I: max leakage current (μA), C: Nominal capacitance (μF), V:Rated voltage (V) (at 20℃)										
Dissipation Factor (MAX) (tanδ) (at 120Hz ,20℃)	WV	6.3	10	16	25	35	50	63	100	160~250	350~450
	tanδ	0.22	0.19	0.16	0.14	0.12	0.10	0.09	0.08	0.15	0.20
	When nominal capacitance is over 1000μF, tanδ shall be added 0.02 to the listed value with increase of every 1000μF.										
Low Temp.Impedance Stability at 120Hz	WV	6.3	10	16	25	35	50~100	160~200	250~350	400	450
	Z-25℃ /	5	4	3	2	2	2	3	4	6	15
	Z-40℃ /	12	10	8	5	4	3	---	---	---	---
Endurance	After the following life time application of DC rated working voltage hours at 105℃ the capacitor shall meet the following requirements.										
	Capacitance change		≤ ±20% of the initial value								
	Dissipation Factor		≤ 200% of the initial specified value								
	Leakage Current		≤ the initial specified value								
	WV	≤100	160~250				350~450				
	Life time	3000	4000(≤Φ13)		7000(≥Φ16)		5000				
Shelf Life	After storage for 1000 hours at 105℃ with no voltage applied, voltage treatment of JIS-C-5102 article 4-4 is to be given and then measurement shall be made, at which time requirement specified in the table "High Temperature Loading" can be met.										

### DRAWING



Unit:(mm)

ΦD	5	6.3	8	10	13	16	18
P	2.0	2.5	3.5	5.0	5.0	7.5	7.5
Φd	0.5			0.6		0.8	
β	1.0			1.5		2.0	
α	0.5						

### MULTIPLIER FOR RIPPLE CURRENT

#### (1) Frequency Coefficient

Freq.(Hz)	120	1K	10K	100K
Cap.(µF)				
0.47~10	1.00	1.40	1.55	1.65
22~470	1.00	1.20	1.25	1.30
1000~3300	1.00	1.05	1.10	1.15

#### (2) Temperature Coefficient

Ambient Temperature(°C)	40	60	70	85	105
Coefficient	2.40	2.10	1.78	1.65	1.00

## ■ STANDARD RATINGS

WV(vdc) Parameter Cap.(μF)	10		WV(vdc) Parameter Cap.(μF)	16	
	ΦDxL(mm)	Ripple Current (mArms) 105°C, 120Hz		ΦDxL(mm)	Ripple Current (mArms) 105°C, 120Hz
100	5x11	66	100	5x11	80
220	6.3x11	100	220	6.3x11	150
470	8x11.5	180	330	8x11.5	240
2200	13x20	540	470	10x12.5	430
3300	13x25	802	1000	10x16	706

WV(vdc) Parameter Cap.(μF)	25		WV(vdc) Parameter Cap.(μF)	35	
	ΦDxL(mm)	Ripple Current (mArms) 105°C, 120Hz		ΦDxL(mm)	Ripple Current (mArms) 105°C, 120Hz
47	5x11	55	33	5x11	210
100	6.3x11	95	220	8x16	340
220	8x11.5	135	330	10x16	640
330	10x12.5	255	470	10x20	865
470	10x16	321	1000	13x25	1210
1000	13x20	438			

WV(vdc) Parameter Cap.(μF)	50		WV(vdc) Parameter Cap.(μF)	63	
	ΦDxL(mm)	Ripple Current (mArms) 105°C, 120Hz		ΦDxL(mm)	Ripple Current (mArms) 105°C, 120Hz
0.47	5x11	4	0.47	5x11	5
1	5x11	8	1	5x11	9
2.2	5x11	15	2.2	5x11	17
3.3	5x11	18	3.3	5x11	20
4.7	5x11	20	4.7	5x11	23
10	5x11	27	10	5x11	30
22	5x11	39	22	6.3x11	55
47	6.3x11	87	33	6.3x11	60
100	8x11.5	99	47	6.3x11	80
220	10x16	234	100	8x11.5	180
330	10x20	293	220	10x20	292
470	13x20	370	330	13x20	371
			470	13x25	454

WV(vdc) Parameter Cap.(μF)	100	
	ΦDxL(mm)	Ripple Current (mArms) 105°C, 120Hz
0.47	5x11	9
1	5x11	17
2.2	5x11	20
3.3	5x11	23
4.7	5x11	30
10	6.3x11	55
22	8x11.5	60
33	10x12.5	80
47	10x16	180
100	10x20	292

## ■ STANDARD RATINGS

WV(vdc) Parameter Cap.(μF)	160		WV(vdc) Parameter Cap.(μF)	200	
	ΦDxL(mm)	Ripple Current (mAmps) 105℃, 120Hz		ΦDxL(mm)	Ripple Current (mAmps) 105℃, 120Hz
22	10x20	470	22	10x20	470
33	10x20	470	33	13x20	470
47	13x20	600	47	13x20	600
68	16x20	750	68	16x20	750
100	18x20	1060	100	18x20	1060
150	18x25	1280	150	18x25	1280
220	18x25	1280	220	18x32	1690
330	18x32	1690			

WV(vdc) Parameter Cap.(μF)	250		WV(vdc) Parameter Cap.(μF)	350	
	ΦDxL(mm)	Ripple Current (mAmps) 105℃, 120Hz		ΦDxL(mm)	Ripple Current (mAmps) 105℃, 120Hz
22	13x20	560	10	10x20	270
33	13x20	560	22	13x25	350
47	16x20	710	33	16x20	480
68	18x20	990	47	18x20	640
100	18x25	1200	68	18x25	780
150	18x32	1470	100	18x32	970

WV(vdc) Parameter Cap.(μF)	400		WV(vdc) Parameter Cap.(μF)	450	
	ΦDxL(mm)	Ripple Current (mAmps) 105℃, 120Hz		ΦDxL(mm)	Ripple Current (mAmps) 105℃, 120Hz
10	10x20	250	10	13x20	310
22	13x25	410	22	16x25	560
33	16x25	600	33	18x25	680
47	18x25	730	47	18x32	850
68	18x32	970	68	18x32	1200
100	18x32	1200	100	18x36	1470
120	18x36	1470	120	18x40	1550