

# Aluminum Electrolytic Capacitors

# YUSCON®

## BP Series

- Standard non-polarized series
- Designed for use in circuits with reversing polarity
- Load life of 1000 hours at 105°C
- Solvent-proof
- Rohs compliance.

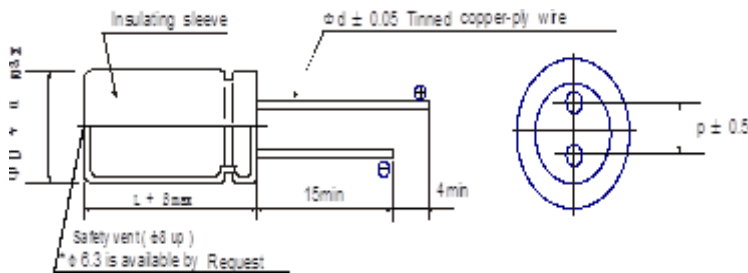


### ■ SPECIFICATIONS

Item	Characteristics												
Operating Temperature Range	- 40 ~ +105°C												
Voltage Range	160 ~250 V.DC												
Nominal Cap. Range	10 ~330 µF												
Capacitance Tolerance	- 20% ~ + 20% (at 20°C, 120Hz)												
Leakage Current	$I = 0.03CV$ or $3(\mu A)$ whichever is greater.(after 5 min.) where, I: Max Leakage Current( $\mu A$ ), C: Nominal Capacitance( $\mu F$ ), V: Rated Voltage(V) (at 20 °C)												
Dissipation Factor (tan $\delta$ ) ( at 120Hz, +20 °C )	<table border="1"> <thead> <tr> <th>WV</th> <th>160</th> <th>200</th> <th>250</th> </tr> </thead> <tbody> <tr> <td>tan<math>\delta</math></td> <td>0.08</td> <td>0.08</td> <td>0.08</td> </tr> </tbody> </table>	WV	160	200	250	tan $\delta$	0.08	0.08	0.08				
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Low Temp. Impedance Stability at 120Hz	<table border="1"> <thead> <tr> <th>W. V .</th> <th>160</th> <th>200</th> <th>250</th> </tr> </thead> <tbody> <tr> <td>Z(- 25°C ) / Z (+ 20°C )</td> <td>3</td> <td>3</td> <td>3</td> </tr> <tr> <td>Z(- 40°C ) / Z (+ 20°C )</td> <td>4</td> <td>4</td> <td>4</td> </tr> </tbody> </table>	W. V .	160	200	250	Z(- 25°C ) / Z (+ 20°C )	3	3	3	Z(- 40°C ) / Z (+ 20°C )	4	4	4
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High Temp. Load Test	105°C 1,000 hours, at rated voltage, during which the polarity of DC voltage is reversed for each 500 hours, the capacitor shall meet the following limits: Capacitance change ... $\leq \pm 20\%$ of the initial measured value Tan $\delta$ ... $\leq 150\%$ of the initial specified value DC leakage current ... $\leq$ the initial specified value												
High Temp. Non-Load Test	After storage for 500 hours at 105°C 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 requirements specified in the table "High temperature loading" can be met.												

Note : Some cleaning solvents may adversely affect the capacitors . Consult us about the suitable type of cleaning solvents to be used.

### ● 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	0.5	0.5	0.6	0.6	0.8	0.8
β	1.0			1.5			
α	0.5						

### ▼ MULTIPLIER FOR RIPPLE CURRENT

Frequency coefficient

Freq.(HZ)	60(50)	120	300	1K	10K
10~ 47	0.75	1.00	1.35	1.55	2.00
68 ~ 330	0.80	1.00	1.25	1.34	1.50

### ◆ PART NUMBERING SYSTEM

<b>BP</b>	□□□	□	□□□	□	□□
Series	Rated Cap.	Cap. Tolerance	Rated Voltage	Case Size D	Case Size L

## BP Series

### STANDARD RATINGS

Parameter Cap (μF)	160		200		250	
	ΦDxL (mm)	Ripple current (mArms)	ΦDxL (mm)	Ripple current (mArms)	ΦDxL (mm)	Ripple current (mArms)
10	13 X 20	250	13 X 25	265	13 X 25	285
22	13 X 25	530	13 X 30	560	13 X 30	610
33	13 X 30	550	16 X 30	600	16 X 30	625
47	16 X 30	606	18 X 30	620	18 X 30	660
68	18 X 30	713	18 X 36	735	18 X 36	830
100	18 X 30	860	18 X 40	960	18 X 40	1080
220	22 X 40	1300	22 X 40	1450	22 X 40	1550
330	25 X 40	1530				

