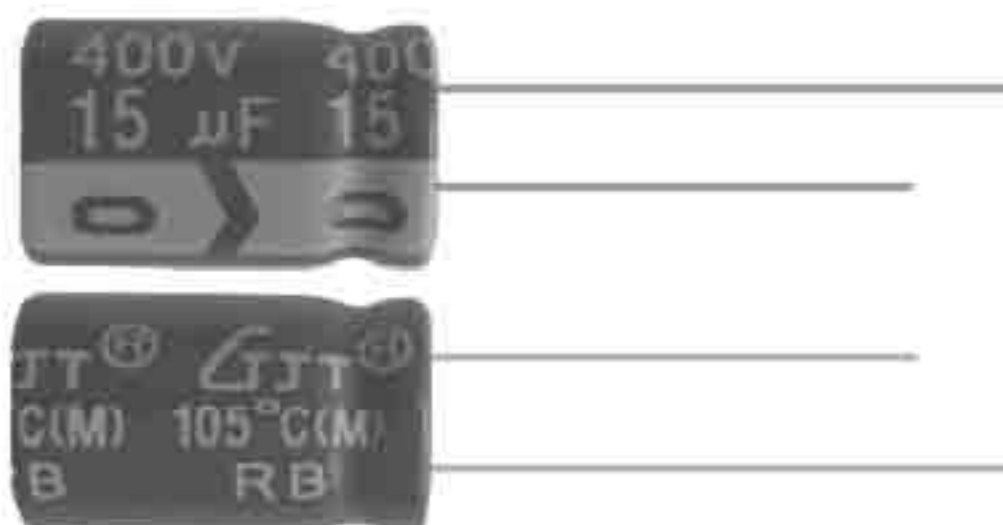


# RB Series

105°C, High Ripple Current.

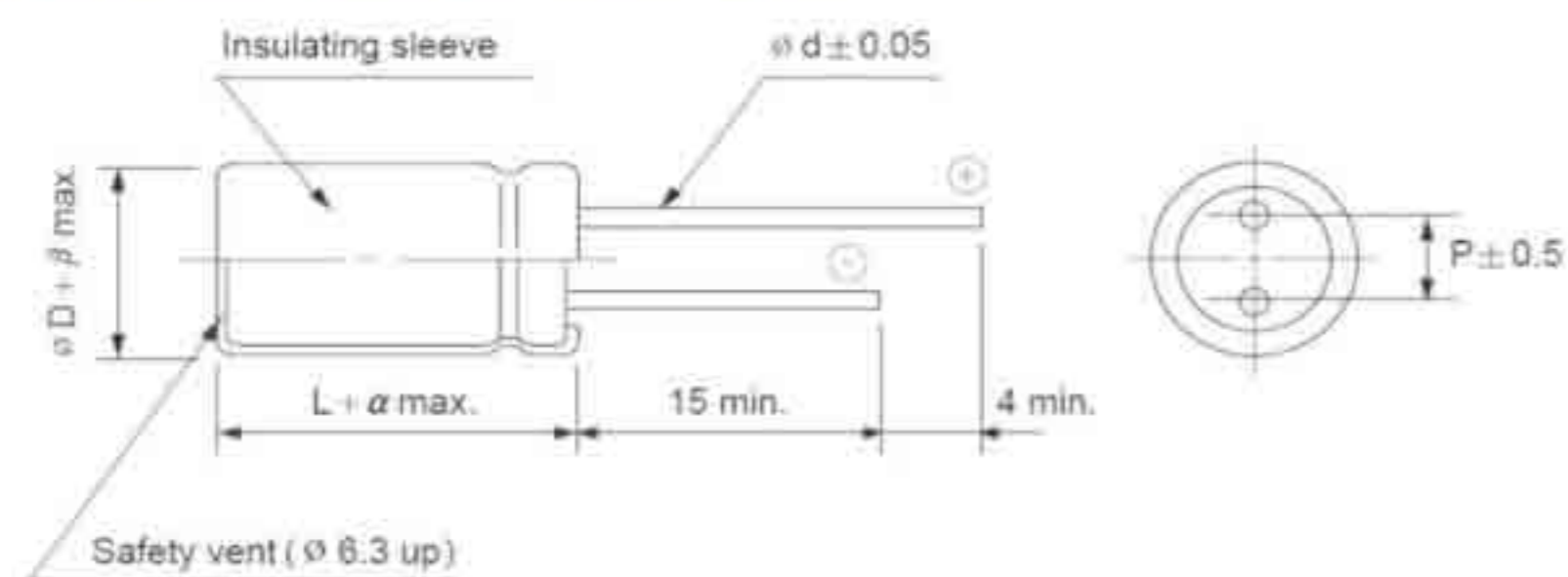
- 105°C, 5,000 hours assured.
- Especially designed for electronic energy saving lamps, LED lighting driver.
- RoHS compliant.



## SPECIFICATIONS

Item	Characteristics					
Rated Voltage Range	200 ~ 400 V <sub>DC</sub>			450V <sub>DC</sub>		
Operating Temp. Range	-40 ~ 105°C			-25 ~ 105°C		
Capacitance Tolerance	± 20% (20°C, 120Hz)					
Leakage Current (at 20°C)	Time		After 5 minutes			
	Leakage Current		CV ≤ 1,000 I ≤ 0.03CV + 15μA	CV > 1,000 I ≤ 0.02CV + 25μA		
Where, I : Max. leakage current (mA), C : Nominal capacitance (μF), V : Rated voltage (V)						
Dissipation Factor (Tan δ, at 20°C, 120Hz)	VV	200	250	400	450	
	Tan δ	0.20	0.20	0.20	0.24	
Temperature Characteristics (Max. Impedance Ratio)	Rated Voltage	200	250	400	450	
	Z-25°C/Z+20°C	3	3	5	6	
	Z-40°C/Z+20°C	6	6	6	-	
Load Life	Test Time	5,000Hrs				
	Capacitance Change	Within ± 20% initial value				
	Dissipation Factor	Less than 200% of specified value				
	Leakage Current	Within specified value				
Shelf Life	Test Time	1,000 hrs				
	Capacitance Change	Within ± 20% initial value				
	Dissipation Factor	Less than 200% of specified value				
	Leakage Current	Less than 500% of specified value				
* The above specifications shall be satisfied when the capacitors are restored to 20°C after exposing them for 1,000 hrs at 105°C without voltage applied. The rated voltage shall be applied to the capacitors before the measurements.						
Ripple Current & Frequency Multipliers	Freq.(Hz)	60 (50)	120	1K	10K	100K
	Cap.(μF)					
	Under 10	0.42	0.50	0.80	0.90	1.00
C ≥ 10	0.45	0.58	0.85	0.92	1.00	

## DIAGRAM OF DIMENSIONS (Unit: mm)



## LEAD SPACING AND DIAMETER

Unit:mm

φ D	8	10	13	16	18
P	3.5	5.0		7.5	
φ d	0.5	0.6		0.8	
α	1.5	2.0			
β	0.5				

**Note:** All design and specifications are for reference only and is subject to change without prior notice. If any doubt about safety for your application, please contact us immediately for technical assistance before purchase



◆ DIMENSION & PERMISSIBLE RIPPLE CURRENT

Unit: mm

■ Ripple Current (Max.Value mA/rms) at 105°C 100KHz

V <sub>DC</sub> (v)	Cap. (uF)	φ 8		φ 10		φ 13		φ 16		φ 18	
		φ DxL	R.C.	φ DxL	R.C.	φ DxL	R.C.	φ DxL	R.C.	φ DxL	R.C.
200	2.8	8x12	70								
	3.3	8x12	75								
	4.7	8x12	95								
	5.6	8x12	100								
	6.8			10x12	100						
	8.2			10x16	110						
	10			10x16	210						
	15			10x16	250						
	22			10x20	400						
	33			10x20	450	13x20	500				
	47					13x25	610				
	68							16x25	690		
	100							16x31.5	800		
250	1.5	8x12	55								
	1.8	8x12	60								
	2.2	8x12	65								
	2.8	8x12	70								
	3.3	8x12	75								
	4.7	8x12	90	10x12	95						
	5.6	8x12	95	10x12	100						
	6.8			10x12	110						
	8.2			10x16	115						
	10			10x16	210						
	15			10x16	300						
	22			10x20	400	13x20	480				
	33					13x25	520				
	47					13x25	580	16x25	610		
	68							16x25	720		
100									18x31.5	850	

※: Produce custom product too, which are not found in these tables.



◆ DIMENSION & PERMISSIBLE RIPPLE CURRENT

Unit: mm

■ Ripple Current (Max.Value mA/rms) at 105°C 100KHz

V <sub>DC</sub> (V)	Cap. (μF)	φ 8		φ 10		φ 13		φ 16		φ 18	
		φ DxL	R.C.	φ DxL	R.C.	φ DxL	R.C.	φ DxL	R.C.	φ DxL	R.C.
400	1	8x12	55								
	1.5	8x12	65	10x12	70						
	1.8	8x12	70	10x12	75						
	2.2			10x16	80						
	2.8			10x16	85						
	3.3			10x16	90						
	4.7			10x16	105						
	5.6			10x20	115						
	6.8			10x20	155	13x20	190				
	8.2			10x20	190	13x20	220				
	10					13x20	230				
	15					13x25	300				
	22					13x30	370	16x25	450		
	33							16x31.5	500		
	47									18x31.5	670
68									18x35.5	800	
450	1.5			10x12	70						
	1.8			10x12	75						
	2.2			10x12	80						
	2.8			10x16	85						
	3.3			10x16	95						
	4.7			10x20	110						
	5.6			10x20	115						
	6.8					13x20	195				
	8.2					13x20	220				
	10					13x20	250				
	15					13x25	350				
	22							16x25	450		
	33							16x31.5	550		
	47									18x31.5	700
	68									18x35.5	810

※: Produce custom product too, which are not found in these tables.