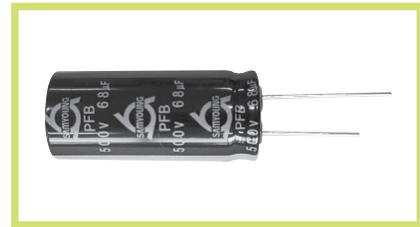
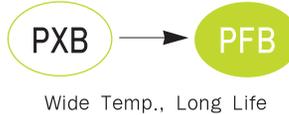


PFB Series

• 130°C 8,000~10,000Hrs assured.

- Non-solvent proof
- Wide Temperature range.
- Long Life.
- Applicable to compact sized Adaptor for TV power
- RoHS compliant.
- Halogen-free capacitors are also available.



SPECIFICATIONS

Item	Characteristics												
Rated Voltage Range	400 ~ 500 V _{dc}												
Operating Temperature Range	-25 ~ +130°C												
Capacitance Tolerance	±20%(M) (at 20°C, 120Hz)												
Leakage Current	<table border="1"> <thead> <tr> <th>CV</th> <th>Time</th> <th>After 1 minute</th> <th>After 5 minutes</th> </tr> </thead> <tbody> <tr> <td>≤ 1000</td> <td></td> <td>I = 0.1CV + 40</td> <td>I = 0.03CV + 15</td> </tr> <tr> <td>> 1000</td> <td></td> <td>I = 0.04CV + 100</td> <td>I = 0.02CV + 25</td> </tr> </tbody> </table> <p>Where, I: Max. Leakage current(μA), C: Nominal capacitance(μF), V: Rated voltage(V_{dc}) (at 20°C)</p>	CV	Time	After 1 minute	After 5 minutes	≤ 1000		I = 0.1CV + 40	I = 0.03CV + 15	> 1000		I = 0.04CV + 100	I = 0.02CV + 25
CV	Time	After 1 minute	After 5 minutes										
≤ 1000		I = 0.1CV + 40	I = 0.03CV + 15										
> 1000		I = 0.04CV + 100	I = 0.02CV + 25										
Dissipation Factor(Tanδ)	<table border="1"> <thead> <tr> <th>Rated Voltage(V_{dc})</th> <th>400</th> <th>420 ~ 500</th> </tr> </thead> <tbody> <tr> <td>Tanδ(Max.)</td> <td>0.20</td> <td>0.24</td> </tr> </tbody> </table> <p>(at 20°C, 120Hz)</p>	Rated Voltage(V _{dc})	400	420 ~ 500	Tanδ(Max.)	0.20	0.24						
Rated Voltage(V _{dc})	400	420 ~ 500											
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Temperature Characteristics (Max. Impedance ratio)	<table border="1"> <thead> <tr> <th>Rated Voltage(V_{dc})</th> <th>400 ~ 500</th> </tr> </thead> <tbody> <tr> <td>Z(-25°C)/Z(+20°C)</td> <td>6</td> </tr> </tbody> </table> <p>(at 120Hz)</p>	Rated Voltage(V _{dc})	400 ~ 500	Z(-25°C)/Z(+20°C)	6								
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Z(-25°C)/Z(+20°C)	6												
Load Life	<p>The following specifications shall be satisfied when the capacitors are restored to 20°C after the rated voltage with the rated ripple current is applied(the peak voltage shall not exceed the rated voltage) for 10,000 hours at 130°C(Where 8,000 hours for ø10, ø12.5)</p> <p>Capacitance change ≤ ±30% of the initial value Tanδ ≤ 300% of the initial specified value Leakage Current ≤ The initial specified value</p>												
Shelf Life	<p>The following specifications shall be satisfied when the capacitors are restored to 20°C after exposing them for 1,000 hours at 130°C without voltage applied. The rated voltage shall be applied to the capacitors for a minimum of 30 minutes, at least 24 hours and not more than 48 hours before the measurements.</p> <p>Capacitance change ≤ ±30% of the initial value Tanδ ≤ 300% of the initial specified value Leakage current ≤ 500% of the initial specified value</p>												
Others	Satisfied characteristics KS C IEC 60384-4												

DIMENSIONS OF PFB Series

Unit(mm)

Marking : BLACK SLEEVE, WHITE INK

øD	10	12.5	16	18
ød	0.6	0.6	0.8	0.8
F	5.0	5.0	7.5	7.5
øD'	øD + 0.5 max.			
L'	L + 2.0max.			



MINIATURE ALUMINUM ELECTROLYTIC CAPACITORS

RATINGS OF PFB Series

V _{dc} ∅ D × L (mm)	400		420	
	μF	Rated Ripple Current (mArms/130°C, 120Hz)	μF	Rated Ripple Current (mArms/130°C, 120Hz)
10 × 50	33	230	33	210
12.5 × 50	56	330	56	310
12.5 × 60	68	390	68	360
16 × 20	27	180	27	170
16 × 25	39	240	39	220
16 × 31.5	56	310	56	290
16 × 35.5	68	350	68	330
16 × 40	68	370	68	350
16 × 45	82	420	82	400
16 × 50	100	490	100	460
18 × 20	39	230	39	220
18 × 25	56	300	56	280
18 × 31.5	82	390	82	370
18 × 35.5	82	410	82	390
18 × 40	100	470	100	450
18 × 45	120	540	120	510
18 × 50	150	630	150	590

V _{dc} ∅ D × L (mm)	450		500	
	μF	Rated Ripple Current (mArms/130°C, 120Hz)	μF	Rated Ripple Current (mArms/130°C, 120Hz)
10 × 50	27	160	22	140
12.5 × 50	47	230	39	210
12.5 × 60	56	270	47	250
16 × 20	22	120	18	110
16 × 25	33	170	22	130
16 × 31.5	39	200	33	180
16 × 35.5	47	230	39	210
16 × 40	56	260	47	240
16 × 45	68	300	53	260
16 × 50	82	340	56	280
18 × 20	27	150	22	130
18 × 25	39	190	33	180
18 × 31.5	56	250	47	230
18 × 35.5	68	290	53	250
18 × 40	82	330	56	270
18 × 45	82	350	68	310
18 × 50	100	400	82	360

RATED RIPPLE CURRENT MULTIPLIERS

Frequency Multipliers

Cap. (μF) \ Freq. (Hz)	120	1k	10k	50k	100k
18~150	1.00	1.30	1.40	1.43	1.50