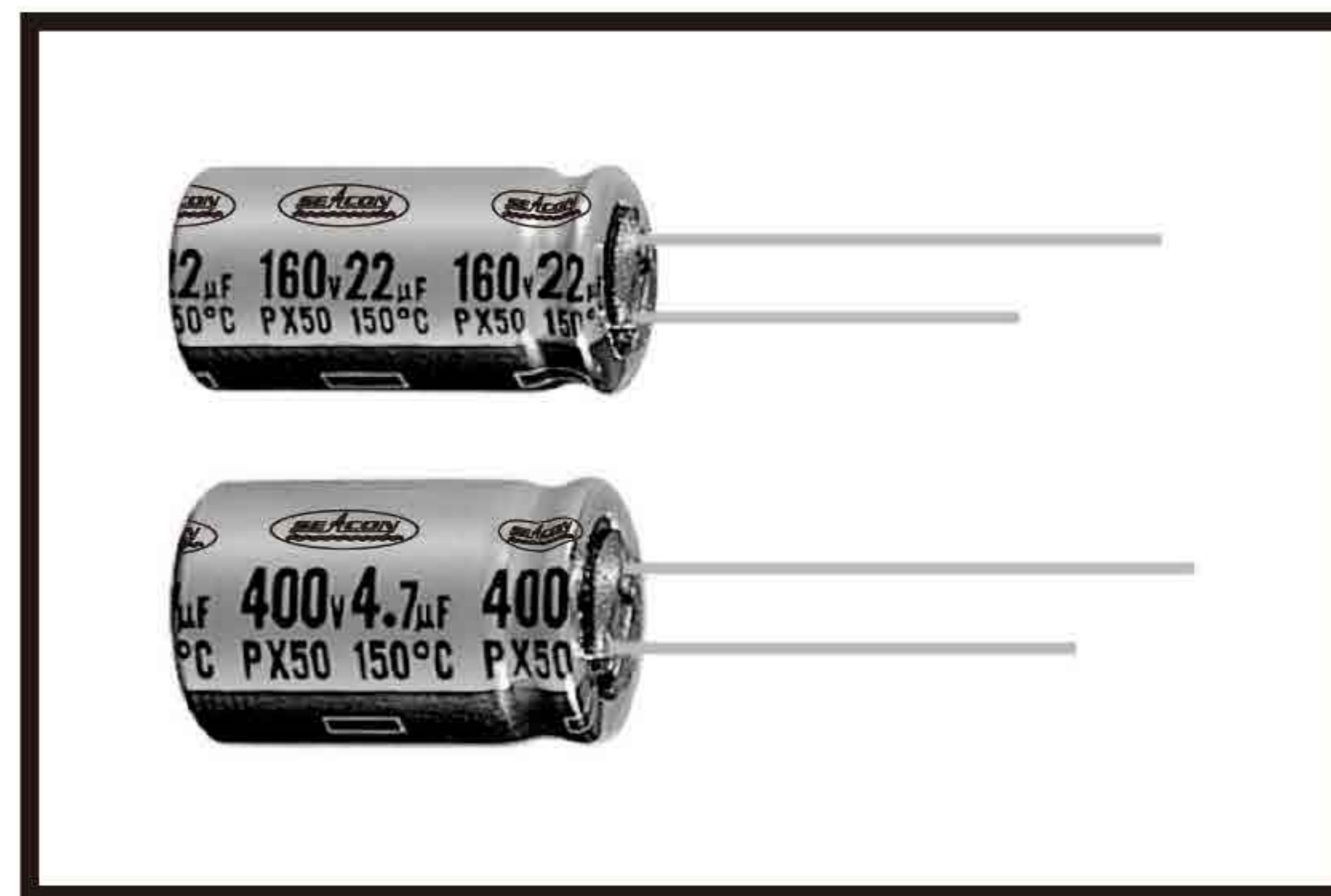


PX50 SERIES

Load Life : 150°C 1000~2000 hours.

◆ FEATURES

- For Electronic Ballast, Power Supply.
- Solution for high temperature application such as automobile electronics.



◆ SPECIFICATIONS

Items	Characteristics																							
Category Temperature Range	-40~+150°C	-25~+150°C																						
Rated Voltage Range	10~63V.DC	160~400V.DC																						
Capacitance Tolerance	±20%(20°C,120Hz)																							
Leakage Current(MAX)	I=0.01CV or 3µA whichever is greater. (After 5 minutes application of rated voltage)	I=0.04CV+100µA (After 1 minutes application of rated voltage) I=0.02CV+25µA (After 5 minutes application of rated voltage)																						
	I=Leakage Current(µA) C=Rated Capacitance(µF) V=Rated Voltage(V)																							
Dissipation Factor(MAX)	<table border="1"> <thead> <tr> <th>Rated Voltage (V)</th> <th>10</th> <th>16</th> <th>25</th> <th>35</th> <th>50</th> <th>63</th> <th>160</th> <th>200</th> <th>350</th> <th>400</th> </tr> </thead> <tbody> <tr> <td>tanδ</td> <td>0.20</td> <td>0.16</td> <td>0.14</td> <td>0.12</td> <td>0.12</td> <td>0.11</td> <td>0.20</td> <td>0.20</td> <td>0.25</td> <td>0.25</td> </tr> </tbody> </table>	Rated Voltage (V)	10	16	25	35	50	63	160	200	350	400	tanδ	0.20	0.16	0.14	0.12	0.12	0.11	0.20	0.20	0.25	0.25	(20°C,120Hz)
	Rated Voltage (V)	10	16	25	35	50	63	160	200	350	400													
tanδ	0.20	0.16	0.14	0.12	0.12	0.11	0.20	0.20	0.25	0.25														
When rated capacitance is over 1000µF, tanδ shall be added 0.02 to the listed value with increase of every 1000µF.																								
Endurance	After life test with rated ripple current at conditions stated in the table below, the capacitors shall meet the following requirements.																							
	Capacitance Change	Within ±30% of the initial value. (WV≥160:±25%)									Case Dia	Life Time (hrs)												
	Dissipation Factor	Not more than 300% of the specified value. (WV≥160:200%)									φD≤12.5	1000												
	Leakage Current	Not more than the specified value.									φD≥16	2000												
Low Temperature Stability Impedance Ratio(MAX)	Rated Voltage (V)	10	16	25	35	50	63	160	200	350	400	(120Hz)												
	Z(-25°C)/Z(20°C)	2	2	2	2	2	2	3	3	6	6													
	Z(-40°C)/Z(20°C)	4	4	4	4	4	4	—	—	—	—													

◆ MULTIPLIER FOR RIPPLE CURRENT

Frequency coefficient

(WV≥63V)

Frequency (Hz)		60(50)	120	1k	10k	100k≤
Coefficient	47~220µF	0.30	0.40	0.75	0.92	1.00
	330~1000µF	0.40	0.50	0.80	0.95	1.00
	2200~4700µF	0.55	0.65	0.85	0.98	1.00

(WV≥160V)

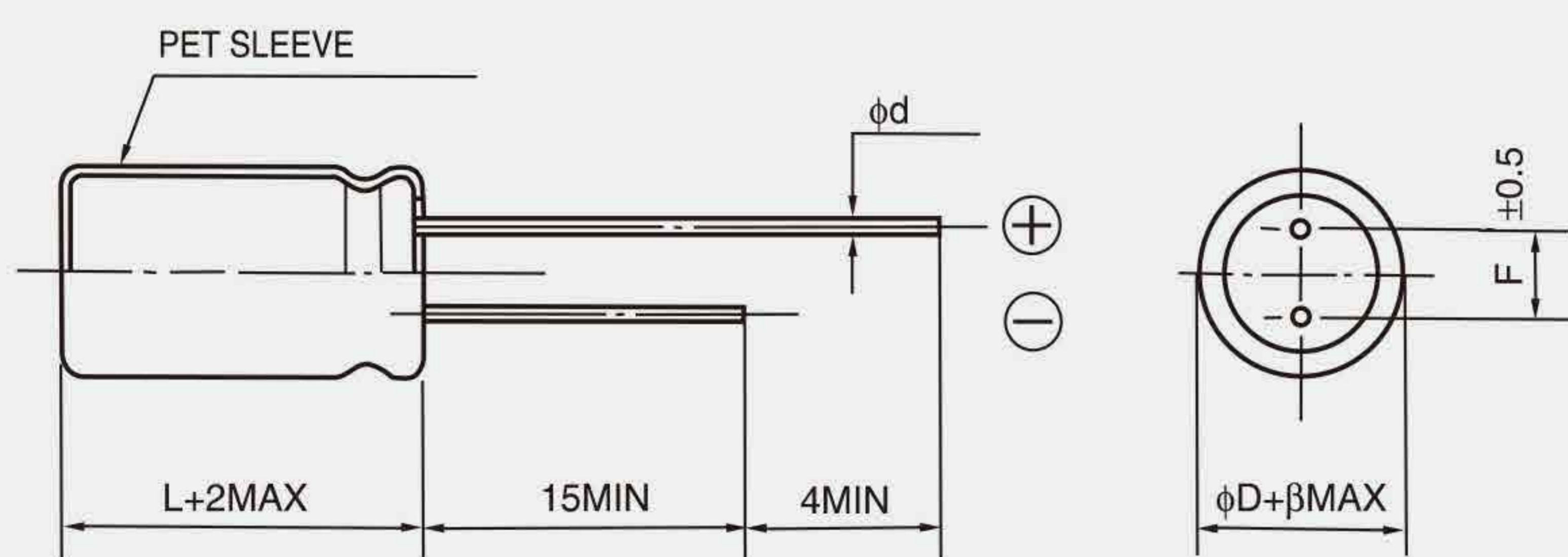
Frequency (Hz)		60(50)	120	500	1k	10k≤
Coefficient	2.2~6.8µF	0.50	1.00	1.20	1.30	1.50
	10~15µF	0.65	1.00	1.20	1.30	1.50
	22~33µF	0.80	1.00	1.20	1.30	1.50

◆ PART NUMBER

□□□	PX50	□□□□□	□	□□□	□□	DxL
Rated Voltage	Series	Rated Capacitance	Capacitance Tolerance	Option	Lead Forming	Case Size

◆ DIMENSIONS

(mm)



ϕD	10	12.5	16	18
ϕd	0.6		0.8	
F	5.0		7.5	
β	0.5	1.0		

◆ STANDARD SIZE, RATED RIPPLE CURRENT

Size $\phi D \times L$ (mm), Ripple Current (mA r.m.s./105°C, 100kHz)

WV(V.DC) Cap(μF)	10 (1A)		16 (1C)		25 (1E)		35 (1V)		50 (1H)		63 (1J)	
	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple
47											10X16	220
100							10X16	370	10X20	300	12.5X20	350
220					10X16	370	10X20	460	12.5X20	400	16X31.5	650
330			10X16	370	10X20	460	12.5X20	600	12.5X25	500	16X35.5	680
470	10X16	370	10X20	460	12.5X20	600	12.5X25	750	16X31.5	700	18X35.5	750
1000	12.5X20	600	12.5X25	750	16X31.5	1100	16X35.5	1150	18X35.5	850		
2200	16X31.5	1100	16X35.5	1150	18X40	1370						
3300	16X35.5	1150	18X35.5	1300								
4700	18X35.5	1300										

Size $\phi D \times L$ (mm), Ripple Current (mA r.m.s./150°C, 120kHz)

WV(V.DC) Cap(μF)	160 (2C)		200 (2D)		350 (2V)		400 (2G)		
	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple	
2.2							10X16	36	
3.3						10X16	53	10X20	53
4.7						10X20	75	12.5X20	75
6.8						12.5X20	100		
10			10X16	125					
15	10X16	145	10X20	160					
22	10X20	170	12.5X20	200					
33	12.5X20	220							

PX50