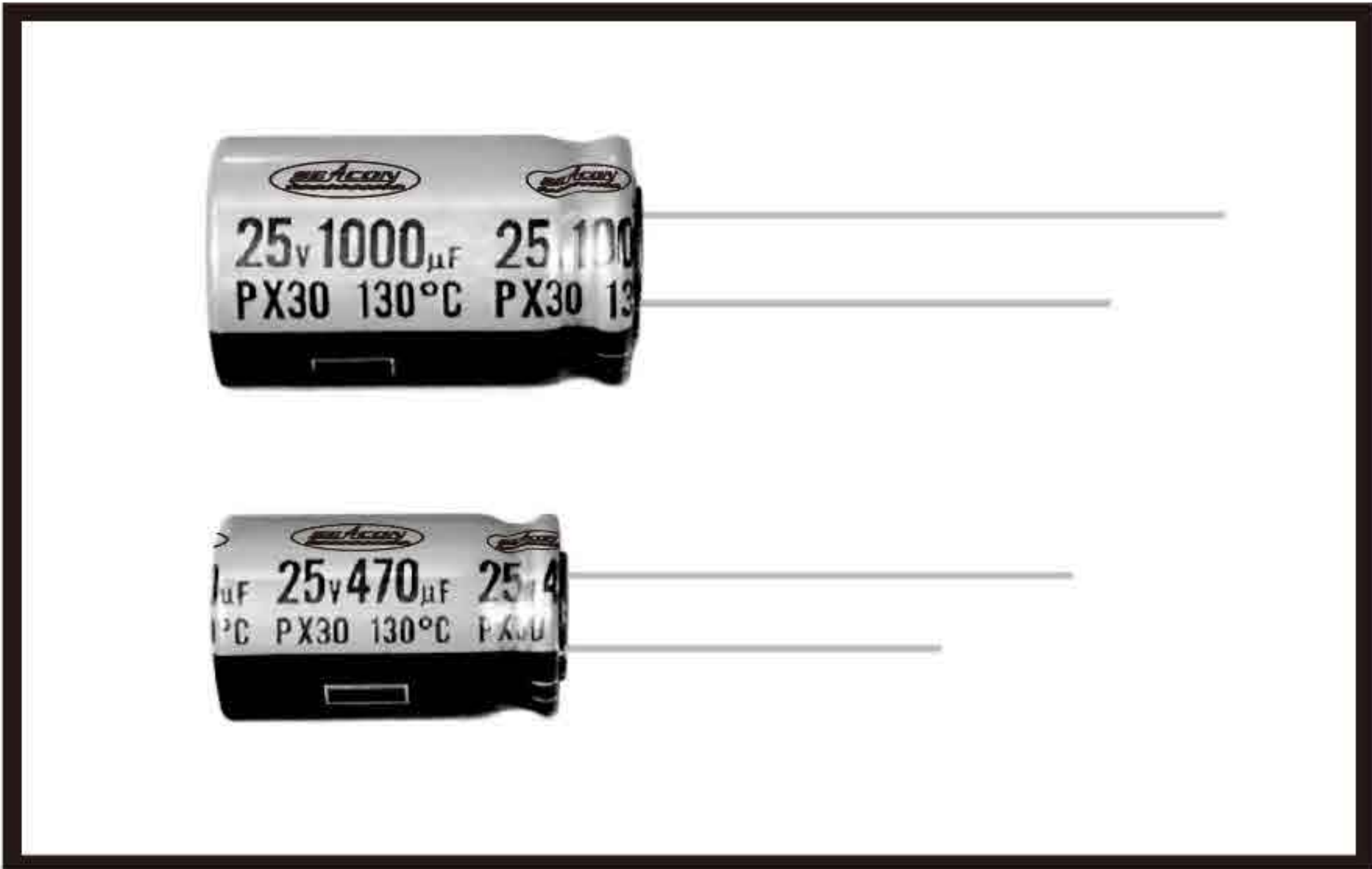


PX30 SERIES

130°C Long Life, Low impedance.

◆ **FEATURES**

- Load Life : 130°C 2000~4000hours.
- Low impedance at 100kHz with selected materials.
- Solution for high temperature application such as automobile electronics.



◆ **SPECIFICATIONS**

Items	Characteristics																											
Category Temperature Range	-40~+130°C																											
Rated Voltage Range	10~100V.DC																											
Capacitance Tolerance	±20%(20°C,120Hz)																											
Leakage Current(MAX)	I=0.01CV or 3µA whichever is greater. (After 2 minutes application of rated voltage) I=Leakage Current(µA) C=Rated Capacitance(µF) V=Rated Voltage(V)																											
Dissipation Factor(MAX)	<table border="1"> <tr> <td>Rated Voltage (V)</td> <td>10</td> <td>16</td> <td>25</td> <td>35</td> <td>50</td> <td>63</td> <td>100</td> <td>(20°C,120Hz)</td> </tr> <tr> <td>tanδ</td> <td>0.20</td> <td>0.16</td> <td>0.14</td> <td>0.12</td> <td>0.10</td> <td>0.09</td> <td>0.08</td> <td></td> </tr> </table> <p>When rated capacitance is over 1000µF, tanδ shall be added 0.02 to the listed value with increase of every 1000µF.</p>	Rated Voltage (V)	10	16	25	35	50	63	100	(20°C,120Hz)	tanδ	0.20	0.16	0.14	0.12	0.10	0.09	0.08										
Rated Voltage (V)	10	16	25	35	50	63	100	(20°C,120Hz)																				
tanδ	0.20	0.16	0.14	0.12	0.10	0.09	0.08																					
Endurance	<p>After life test with rated ripple current at conditions stated in the table below, the capacitors shall meet the following requirements.</p> <table border="1"> <tr> <td>Capacitance Change</td> <td>Within ±30% of the initial value.</td> <td>Case Dia</td> <td>Life Time (hrs)</td> </tr> <tr> <td>Dissipation Factor</td> <td>Not more than 300% of the specified value.</td> <td>φD ≤ 10</td> <td>2000</td> </tr> <tr> <td>Leakage Current</td> <td>Not more than the specified value.</td> <td>φD ≥ 12.5</td> <td>4000</td> </tr> </table>	Capacitance Change	Within ±30% of the initial value.	Case Dia	Life Time (hrs)	Dissipation Factor	Not more than 300% of the specified value.	φD ≤ 10	2000	Leakage Current	Not more than the specified value.	φD ≥ 12.5	4000															
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Low Temperature Stability Impedance Ratio(MAX)	<table border="1"> <tr> <td>Rated Voltage (V)</td> <td>10</td> <td>16</td> <td>25</td> <td>35</td> <td>50</td> <td>63</td> <td>100</td> <td>(120Hz)</td> </tr> <tr> <td>Z(-25°C)/Z(20°C)</td> <td>3</td> <td>2</td> <td>2</td> <td>2</td> <td>2</td> <td>2</td> <td>2</td> <td></td> </tr> <tr> <td>Z(-40°C)/Z(20°C)</td> <td>6</td> <td>4</td> <td>3</td> <td>3</td> <td>3</td> <td>3</td> <td>3</td> <td></td> </tr> </table>	Rated Voltage (V)	10	16	25	35	50	63	100	(120Hz)	Z(-25°C)/Z(20°C)	3	2	2	2	2	2	2		Z(-40°C)/Z(20°C)	6	4	3	3	3	3	3	
Rated Voltage (V)	10	16	25	35	50	63	100	(120Hz)																				
Z(-25°C)/Z(20°C)	3	2	2	2	2	2	2																					
Z(-40°C)/Z(20°C)	6	4	3	3	3	3	3																					

◆ **MULTIPLIER FOR RIPPLE CURRENT**

Frequency coefficient

Frequency (Hz)	60(50)	120	1k	10k	100k ≤
1~4.7µF	0.35	0.42	0.60	0.80	1.00
10~33µF	0.45	0.55	0.75	0.90	1.00
47~330µF	0.60	0.70	0.85	0.95	1.00
470~1500µF	0.65	0.75	0.90	0.98	1.00
2200~4700µF	0.75	0.80	0.95	1.00	1.00

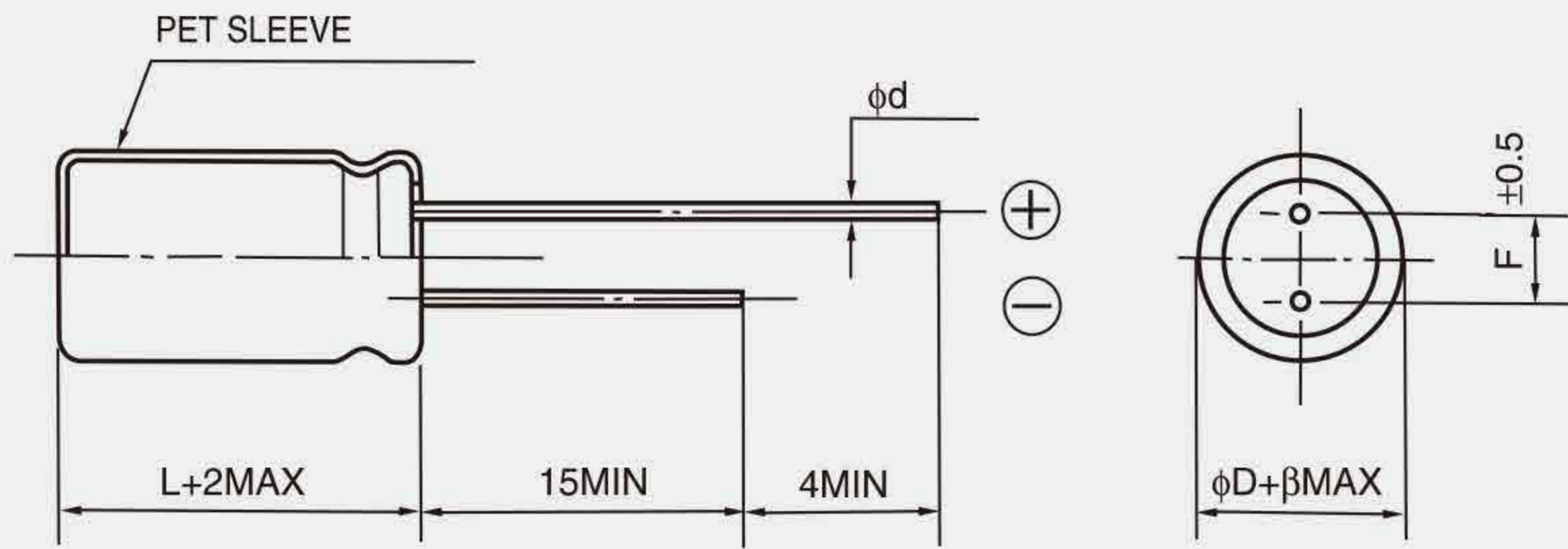
◆ **PART NUMBER**

 PX30 **DxL**
 Rated Voltage Series Rated Capacitance Capacitance Tolerance Option Lead Forming Case Size

PX30

◆ DIMENSIONS

(mm)



φD	8	10	12.5	16	18
φd	0.6			0.8	
F	3.5	5.0		7.5	
β	0.5		1.0		

◆ STANDARD SIZE

Rated voltage 10V(1A)			
Rated capacitance (μF)	Size φDxL(mm)	Rated ripple current (mA r.m.s./130°C, 100kHz)	Impedance (ΩMAX)
			20°C, 100kHz
330	8X11.5	360	0.22
470	10X12.5	620	0.15
1000	10X20	960	0.073
2200	12.5X25	1430	0.040
3300	16X25	1900	0.038
4700	16X31.5	2300	0.034

Rated voltage 16V(1C)			
Rated capacitance (μF)	Size φDxL(mm)	Rated ripple current (mA r.m.s./130°C, 100kHz)	Impedance (ΩMAX)
			20°C, 100kHz
330	8X11.5	360	0.22
470	10X12.5	620	0.15
1000	10X20	960	0.073
2200	12.5X25	1430	0.040
3300	16X31.5	2300	0.034
4700	16X35.5	2550	0.031

Rated voltage 25V(1E)			
Rated capacitance (μF)	Size φDxL(mm)	Rated ripple current (mA r.m.s./130°C, 100kHz)	Impedance (ΩMAX)
			20°C, 100kHz
220	8X11.5	360	0.22
330	10X12.5	620	0.15
470	10X16	800	0.10
1000	12.5X20	1100	0.055
2200	16X31.5	2300	0.034
3300	16X35.5	2550	0.031

PX30

Rated voltage 35V(1V)			
Rated capacitance (μF)	Size φDxL(mm)	Rated ripple current (mA r.m.s./130°C, 100kHz)	Impedance (ΩMAX)
			20°C, 100kHz
100	8X11.5	360	0.22
220	10X12.5	620	0.15
330	10X16	800	0.10
470	10X20	960	0.073
1000	12.5X25	1430	0.040
2200	16X35.5	2550	0.031
3300	18X35.5	2800	0.028

Rated voltage 50V(1H)			
Rated capacitance (μF)	Size φDxL(mm)	Rated ripple current (mA r.m.s./130°C, 100kHz)	Impedance (ΩMAX)
			20°C, 100kHz
1	8X11.5	35	2.5
2.2	8X11.5	50	1.8
3.3	8X11.5	70	1.3
4.7	8X11.5	100	0.85
10	8X11.5	200	0.60
22	8X11.5	260	0.35
33	8X11.5	300	0.28
47	8X11.5	300	0.28
100	10X12.5	520	0.18
220	10X20	890	0.082
330	12.5X20	1000	0.065
470	12.5X25	1200	0.051
1000	16X31.5	2180	0.037
2200	18X40	2800	0.029

Rated voltage 63V(1J)			
Rated capacitance (μF)	Size φDxL(mm)	Rated ripple current (mA r.m.s./130°C, 100kHz)	Impedance (ΩMAX)
			20°C, 100kHz
33	8X11.5	250	0.40
47	10X12.5	400	0.27
100	10X16	450	0.20
220	12.5X20	820	0.10
330	12.5X25	1000	0.072
470	16X25	1500	0.069
1000	16X31.5	1850	0.056
1500	18X40	2350	0.043

Rated voltage 100V(2A)

Rated capacitance (μ F)	Size ϕ DxL(mm)	Rated ripple current (mA r.m.s./130°C, 100kHz)	Impedance (Ω MAX)
			20°C, 100kHz
4.7	8X11.5	100	1.3
10	8X11.5	200	1.0
22	8X11.5	220	0.67
33	10X12.5	260	0.45
47	10X16	330	0.33
100	12.5X20	670	0.17
220	16X25	1100	0.13
330	16X31.5	1300	0.10
470	18X31.5	1600	0.092

PX30