

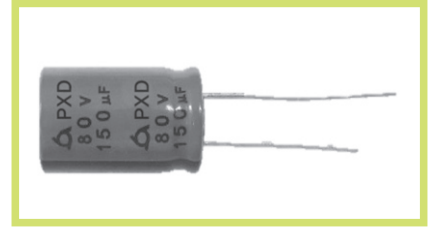
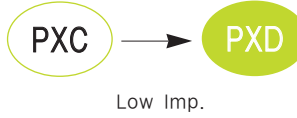
PXD Series

• 125°C 2,000~5,000Hrs assured.

- Ultra Low Impedance.
- Wide Temperature range.
- Long Life.
- Suitable to fit for automotive equipment.
- RoHS compliant.
- Halogen-free capacitors are also available.

Solvent-proof

WV \leq 80V_{DC}

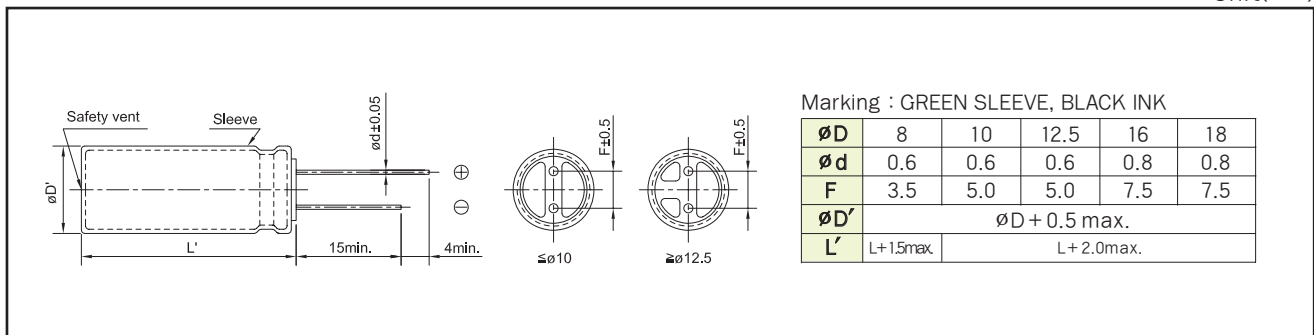


SPECIFICATIONS

Item	Characteristics															
Rated Voltage Range	10 ~ 80 V _{DC}															
Operating Temperature Range	-40 ~ +125°C															
Capacitance Tolerance	$\pm 20\%$ (M) (at 20°C, 120Hz)															
Leakage Current	$I = 0.03CV$ (μA) or $4\mu A$, whichever is greater. Where, I:Max. leakage current(μA), C:Nominal capacitance(μF), V:Rated voltage(V _{DC}) (at 20°C, 1 minute)															
Dissipation Factor(Tan δ)	<table border="1"> <tr> <td>Rated Voltage(V_{DC})</td> <td>10</td> <td>16</td> <td>25</td> <td>35</td> <td>50~63</td> <td>80</td> </tr> <tr> <td>TANδ(Max.)</td> <td>0.20</td> <td>0.16</td> <td>0.14</td> <td>0.12</td> <td>0.10</td> <td>0.08</td> </tr> </table> <p>When the capacitance exceeds 1.000μF, 0.02 shall be added every 1.000μF increase. (at 20°C, 120Hz)</p>	Rated Voltage(V _{DC})	10	16	25	35	50~63	80	TAN δ (Max.)	0.20	0.16	0.14	0.12	0.10	0.08	
Rated Voltage(V _{DC})	10	16	25	35	50~63	80										
TAN δ (Max.)	0.20	0.16	0.14	0.12	0.10	0.08										
Temperature Characteristics (Max. Impedance ratio)	<table border="1"> <tr> <td>Rated Voltage(V_{DC})</td> <td>10</td> <td>16 ~ 35</td> <td>50</td> <td>63~80</td> </tr> <tr> <td>Z(-25°C)/Z(+20°C)</td> <td>3</td> <td>2</td> <td>3</td> <td>2</td> </tr> <tr> <td>Z(-40°C)/Z(+20°C)</td> <td>6</td> <td>4</td> <td>5</td> <td>4</td> </tr> </table> <p>(at 120Hz)</p>	Rated Voltage(V _{DC})	10	16 ~ 35	50	63~80	Z(-25°C)/Z(+20°C)	3	2	3	2	Z(-40°C)/Z(+20°C)	6	4	5	4
Rated Voltage(V _{DC})	10	16 ~ 35	50	63~80												
Z(-25°C)/Z(+20°C)	3	2	3	2												
Z(-40°C)/Z(+20°C)	6	4	5	4												
Load Life	<p>The following specifications shall be satisfied when the capacitors are restored to 20°C after the rated voltage is applied at 125°C.</p> <p>Capacitance change $\leq \pm 30\%$ of the initial value</p> <p>Tanδ $\leq 300\%$ of the initial specified value</p> <p>Leakage current \leq The initial specified value</p> <table border="1"> <tr> <td>ϕD</td> <td>10~50V</td> <td>63~80V</td> </tr> <tr> <td>8ϕ</td> <td>2,000</td> <td>-</td> </tr> <tr> <td>10ϕ ~</td> <td>4,000</td> <td>5,000</td> </tr> </table>	ϕD	10~50V	63~80V	8 ϕ	2,000	-	10 ϕ ~	4,000	5,000						
ϕD	10~50V	63~80V														
8 ϕ	2,000	-														
10 ϕ ~	4,000	5,000														
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 125°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 $\leq \pm 30\%$ of the initial value</p> <p>Tanδ $\leq 300\%$ of the initial specified value</p> <p>Leakage current \leq The initial specified value</p>															
Others	Satisfied characteristics KS C IEC 60384-4															

DIMENSIONS OF PXD Series

Unit(mm)



RATINGS OF PXD Series

V _{DC}		10			16			25				
Item μF	∅ D×L (mm)	Imp. (Ω max./100kHz)		Rated Ripple Current (mArms) (125°C,100kHz)	∅ D×L (mm)	Imp. (Ω max./100kHz)		Rated Ripple Current (mArms) (125°C,100kHz)	∅ D×L (mm)	Imp. (Ω max./100kHz)		Rated Ripple Current (mArms) (125°C,100kHz)
		20°C	-40°C			20°C	-40°C			20°C	-40°C	
100					8 × 11.5	0.24	3.6	400				
220	8 × 11.5	0.24	3.6	400	10 × 12.5	0.11	1.1	720	10 × 12.5	0.11	1.1	720
330	10 × 12.5	0.11	1.1	720	10 × 12.5	0.11	1.1	720	10 × 16	0.071	0.71	950
470	10 × 12.5	0.11	1.1	720	10 × 16	0.071	0.71	950	10 × 20	0.056	0.56	1,100
1,000	10 × 20	0.056	0.56	1,100	12.5 × 20	0.044	0.31	1,250	12.5 × 25	0.030	0.21	1,550
2,200	12.5 × 25	0.030	0.21	1,550	16 × 25	0.023	0.16	2,000	16 × 31.5	0.019	0.13	2,500
3,300	16 × 25	0.023	0.16	2,000	16 × 31.5	0.019	0.13	2,500				
4,700	16 × 31.5	0.019	0.13	2,500								

V _{DC}		35			50			63				
Item μF	∅ D×L (mm)	Imp. (Ω max./100kHz)		Rated Ripple Current (mArms) (125°C,100kHz)	∅ D×L (mm)	Imp. (Ω max./100kHz)		Rated Ripple Current (mArms) (125°C,100kHz)	∅ D×L (mm)	Imp. (Ω max./100kHz)		Rated Ripple Current (mArms) (125°C,100kHz)
		20°C	-40°C			20°C	-40°C			20°C	-40°C	
10					8 × 11.5	0.30	4.5	230				
22					8 × 11.5	0.30	4.5	320				
33					8 × 11.5	0.30	4.5	340				
47					8 × 11.5	0.30	4.5	340				
100	8 × 11.5	0.24	3.60	400	10 × 12.5	0.18	1.5	590				
	10 × 12.5	0.11	1.10	720								
220	10 × 16	0.071	0.71	950	10 × 20	0.074	0.74	950	12.5 X 20	0.19	1.5	950
330	10 × 20	0.056	0.56	1,100	12.5 × 20	0.061	0.43	1,150	12.5 X 25	0.15	1.2	1,450
470	12.5 × 20	0.044	0.31	1,250	12.5 × 25	0.040	0.28	1,400	12.5 X 30	0.090	0.71	1,700
1,000	16 × 25	0.023	0.16	2,000	16 × 31.5	0.028	0.15	2,200	16 X 31.5	0.058	0.46	2,100

V _{DC}		80		
Item μF	∅ D×L (mm)	Imp. (Ω max./100kHz)		Rated Ripple Current (mArms) (125°C,100kHz)
		20°C	-40°C	
220	12.5 X 25	0.15	1.2	1,450
330	12.5 X 30	0.090	0.71	1,700
	16 X 20	0.085	0.58	1,790
470	12.5 X 35	0.070	0.55	2,000
	16 X 25	0.061	0.48	2,030
560	18 X 25	0.049	0.34	2,280
680	18 X 30	0.041	0.26	2,580
820	18 X 35.5	0.035	0.21	2,890

RATED RIPPLE CURRENT MULTIPLIERS

Frequency Multipliers

Freq.(Hz) Cap.(μF)	120	1k	10k	50k	100k
10 ~ 100	0.40	0.75	0.90	0.93	1.00
220 ~ 470	0.50	0.85	0.94	0.96	1.00
1,000	0.60	0.87	0.95	0.97	1.00
2,200 ~ 3,300	0.75	0.90	0.95	0.97	1.00
4,700	0.85	0.95	0.98	0.99	1.00