

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.
- AEC-Q200 compliant : Please contact us for more details, test data, information.

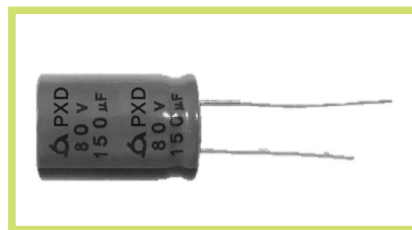
Solvent-proof

$$WV \leq 80V_{DC}$$

PXC

PXD

Low Imp.



SPECIFICATIONS

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

DIMENSIONS OF PXD Series

Unit(mm)

Marking : GREEN SLEEVE, BLACK INK

ϕD	8	10	12.5	16	18
ϕd	0.6	0.6	0.6	0.8	0.8
F	3.5	5.0	5.0	7.5	7.5
$\phi D'$	$\phi D + 0.5$ max.				
L'	L+1.5max		L+2.0max.		

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 × 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 × 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 × 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 × 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 × 25	0.15	1.2	1,450	
330	12.5 × 30	0.090	0.71	1,700	
	16 × 20	0.085	0.58	1,790	
470	12.5 × 35	0.070	0.55	2,000	
	16 × 25	0.061	0.48	2,030	
560	18 × 25	0.049	0.34	2,280	
680	18 × 30	0.041	0.26	2,580	
820	18 × 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

单击下面可查看定价，库存，交付和生命周期等信息

[>>SAMYOUNG\(三荣\)](#)