

NPCAP™-PXD Series

- Super low ESR, impedance and high heat resistance have been obtained by using conductive polymer as electrolyte.
- For automobile modules and other high temperature applications
- Endurance : 125°C 2,000 hours
- Rated voltage range : 2.5 to 10V_{dc}, Capacitance range : 47 to 470μF
- Solvent resistant type (see PRECAUTIONS AND GUIDELINES)
- RoHS Compliant
- Halogen Free

PXD

Longer life

PXH P46



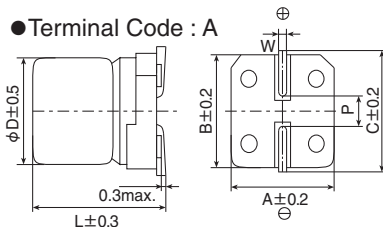
◆ SPECIFICATIONS

Items	Characteristics										
Category	-55 to +125°C										
Temperature Range	-55 to +125°C										
Rated Voltage Range	2.5 to 10V _{dc}										
Capacitance Tolerance	±20% (M) (at 20°C, 120Hz)										
Surge Voltage	Rated voltage × 1.15 (at 125°C)										
Leakage Current	Shall not exceed values shown in STANDARD RATINGS. (at 20°C after 2 minutes)										
Dissipation Factor (tan δ)	0.12 max. (at 20°C, 120Hz)										
Low Temperature Characteristics (Max. Impedance Ratio)	Z(-25°C)/Z(+20°C) ≤ 1.15 Z(-55°C)/Z(+20°C) ≤ 1.25 (at 100kHz)										
Endurance	The following specifications shall be satisfied when the capacitors are restored to 20°C after the rated voltage is applied for 2,000 hours at 125°C.										
	<table border="1"> <tr> <td>Appearance</td> <td>No significant damage</td> </tr> <tr> <td>Capacitance change</td> <td>≤ ±20% of the initial value</td> </tr> <tr> <td>D.F. (tan δ)</td> <td>≤ 200% of the initial specified value</td> </tr> <tr> <td>ESR</td> <td>≤ 200% of the initial specified value</td> </tr> <tr> <td>Leakage current</td> <td>≤ The initial specified value</td> </tr> </table>	Appearance	No significant damage	Capacitance change	≤ ±20% of the initial value	D.F. (tan δ)	≤ 200% of the initial specified value	ESR	≤ 200% of the initial specified value	Leakage current	≤ The initial specified value
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Bias Humidity	The following specifications shall be satisfied when the capacitors are restored to 20°C after subjecting them to the DC rated voltage at 60°C, 90 to 95% RH for 1,000 hours.										
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Surge Voltage	The capacitors shall be subjected to 1,000 cycles each consisting of charge with the surge voltage specified at 125°C for 30 seconds through a protective resistor (R=1kΩ) and discharge for 5 minutes 30 seconds.										
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Leakage current	≤ The initial specified value										
Failure Rate	0.5% per 1,000 hours maximum (Confidence level 60% at 125°C)										

*Note : If any doubt arises, measure the leakage current after the following voltage treatment.
Voltage treatment : DC rated voltage is applied to the capacitors for 120 minutes at 125°C.

◆ DIMENSIONS [mm]

● Terminal Code : A



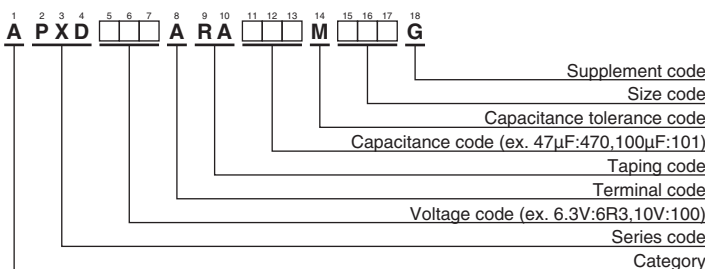
Size code	φD	L	A	B	C	W	P
E61	5	5.8	5.3	5.3	5.9	0.5 to 0.8	1.4
F61	6.3	5.8	6.6	6.6	7.2	0.5 to 0.8	1.9
H70	8	6.7	8.3	8.3	9.0	0.7 to 1.1	3.1
J80	10	7.7	10.3	10.3	11.0	0.7 to 1.1	4.5

◆ MARKING

EX) 10V330μF



◆ PART NUMBERING SYSTEM



Please refer to "Product code guide (conductive polymer type)"

NPCAP™-PXD Series

◆STANDARD RATINGS

WV (V _{dc})	Cap (μF)	Size code	Leakage current (μA max./after 2min.)	ESR (mΩ max./20°C, 100k to 300kHz)	Rated ripple current (mA rms/100kHz)		Part No.
					-55°C ≤ Tx ≤ +105°C ^{*1}	+105°C < Tx ≤ +125°C ^{*1}	
2.5	120	E61	60.0	40	1,450	650	APXD2R5ARA121ME61G
	220	F61	110	30	2,500	770	APXD2R5ARA221MF61G
6.3	56	E61	70.5	45	1,380	600	APXD6R3ARA560ME61G
	100	F61	126	35	2,400	720	APXD6R3ARA101MF61G
	220	H70	277	30	3,020	960	APXD6R3ARA221MH70G
	470	J80	592	25	3,500	1,100	APXD6R3ARA471MJ80G
10	47	E61	94.0	50	1,270	550	APXD100ARA470ME61G
	56	F61	112	40	2,250	680	APXD100ARA560MF61G
	150	H70	300	35	2,800	880	APXD100ARA151MH70G
	330	J80	660	25	3,500	1,100	APXD100ARA331MJ80G

*1 Tx : Ambient temperature (°C)