

NPCAP™-PXC Series

- Super low ESR, impedance and high heat resistance have been obtained by using conductive polymer as electrolyte.
(ESR and rated ripple current values are improved from PXA series.)
- Rated voltage range : 2.5 to 16V_{dc}, Capacitance range : 27 to 470μF
- Case size range : φ5×5.7L to φ8×6.7L
- Suitable for DC-DC converters, voltage regulators and decoupling applications used to computer motherboards etc.
- RoHS Compliant



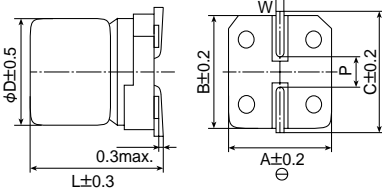
◆ SPECIFICATIONS

Items	Characteristics										
Category											
Temperature Range	-55 to +105°C										
Rated Voltage Range	2.5 to 16V _{dc}										
Capacitance Tolerance	±20% (M) (at 20°C, 120Hz)										
Surge Voltage	Rated voltage(V)×1.15 (at 105°C)										
Leakage Current	I=0.2CV (max.) I : Max. leakage current (μA), C : Nominal capacitance (μF), V : Rated voltage (V _{dc}) (at 20°C after 2 minutes)										
Dissipation Factor (tanδ)	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 1,000 hours at 105°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>DF (tanδ)</td><td>≤ 150% of the initial specified value</td></tr> <tr><td>ESR</td><td>≤ 150% 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	DF (tanδ)	≤ 150% of the initial specified value	ESR	≤ 150% of the initial specified value	Leakage current	≤ The initial specified value
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Leakage current	≤ The initial specified value										
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 500 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 105°C for 30 seconds through a protective resistor(R=1kΩ) and discharge for 5 minutes 30 seconds.										
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DF (tanδ)	≤ 150% of the initial specified value										
ESR	≤ 150% of the initial specified value										
Leakage current	≤ The initial specified value										
Failure Rate	1% per 1,000 hours maximum (Confidence level 60% at 105°C)										

*Note : If any doubt arises, measure the leakage current after following voltage treatment.
Voltage treatment : DC rated voltage are applied to the capacitors for 120 minutes at 105°C.

◆ DIMENSIONS [mm]

- Terminal Code : A



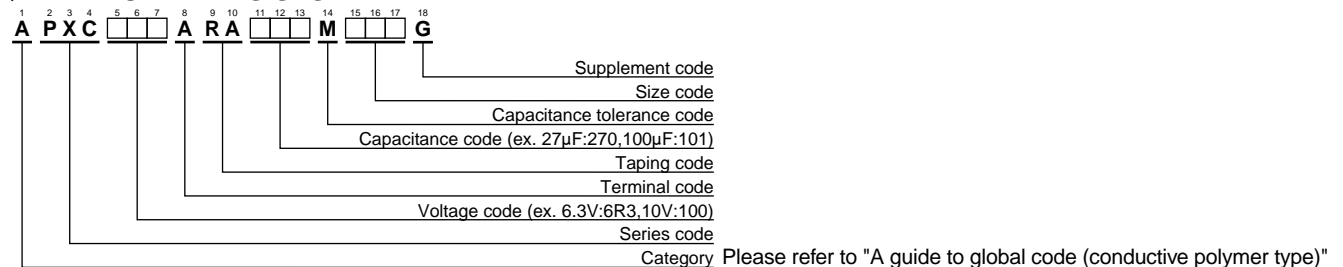
Size code	φD	L	A	B	C	W	P
E60	5	5.7	5.3	5.3	5.9	0.5 to 0.8	1.4
F60	6.3	5.7	6.6	6.6	7.2	0.5 to 0.8	1.9
H70	8	6.7	8.3	8.3	9.0	0.7 to 1.1	3.1

◆ MARKING

EX) 4V220μF



◆ PART NUMBERING SYSTEM





◆STANDARD RATINGS

WV(Vdc)	Cap(μF)	Size code	ESR(mΩmax/20°C)		Rated ripple current (mA _{rms} /100k to 300kHz) -55 to +105°C	Part No.
			100kHz	300kHz(Ref. value)		
2.5	180	E60	30	22	2,000	APXC2R5ARA181ME60G
	270	F60	20	18	2,700	APXC2R5ARA271MF60G
	470	H70	17	16	3,420	APXC2R5ARA471MH70G
4	150	E60	30	22	2,000	APXC4R0ARA151ME60G
	220	F60	21	19	2,640	APXC4R0ARA221MF60G
	330	H70	18	17	3,300	APXC4R0ARA331MH70G
6.3	100	E60	35	26	1,780	APXC6R3ARA101ME60G
	180	F60	22	19	2,580	APXC6R3ARA181MF60G
	220	H70	18	17	3,300	APXC6R3ARA221MH70G
10	56	E60	40	31	1,660	APXC100ARA560ME60G
	82	F60	23	21	2,400	APXC100ARA820MF60G
	150	H70	20	19	3,160	APXC100ARA151MH70G
16	27	E60	45	35	1,570	APXC160ARA270ME60G
	39	F60	25	23	2,300	APXC160ARA390MF60G
	82	H70	25	23	2,830	APXC160ARA820MH70G

Mouser Electronics

Authorized Distributor

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[APXC2R5ARA471MH70G](#) [APXC4R0ARA331MH70G](#) [APXC2R5ARA271MF60G](#) [APXC100ARA820MF60G](#)
[APXC160ARA270ME60G](#) [APXC160ARA390MF60G](#) [APXC100ARA151MH70G](#) [APXC6R3ARA221MH70G](#)
[APXC6R3ARA181MF60G](#) [APXC2R5ARA181ME60G](#) [APXC6R3ARA101ME60G](#) [PXC6.3VC181MF60TP](#)



Компания «ЭлектроПласт» предлагает заключение долгосрочных отношений при поставках импортных электронных компонентов на взаимовыгодных условиях!

Наши преимущества:

- Оперативные поставки широкого спектра электронных компонентов отечественного и импортного производства напрямую от производителей и с крупнейших мировых складов;
- Поставка более 17-ти миллионов наименований электронных компонентов;
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- Лицензия ФСБ на осуществление работ с использованием сведений, составляющих государственную тайну;
- Поставка специализированных компонентов (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Aeroflex, Peregrine, Syfer, Eurofarad, Texas Instrument, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

Помимо этого, одним из направлений компании «ЭлектроПласт» является направление «Источники питания». Мы предлагаем Вам помощь Конструкторского отдела:

- Подбор оптимального решения, техническое обоснование при выборе компонента;
- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



Как с нами связаться

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