

NPCAP™-PXH Series

- Super low ESR, impedance and high heat resistance have been obtained by using conductive polymer as electrolyte.
- Suitable for DC-DC converters, voltage regulators and decoupling applications.
- Endurance : 125°C 1,000 hours
- Rated voltage range : 2.5 to 20V_{dc}, Capacitance range : 22 to 1,000μF
- Case size range : φ 6.3×5.7L to φ 10×7.7L
- Solvent resistant type (see PRECAUTIONS AND GUIDELINES)
- RoHS2 Compliant
- Halogen Free

PXH

Higher temperature
PXA



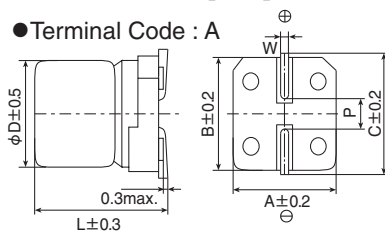
SPECIFICATIONS

Items	Characteristics							
Category								
Temperature Range	-55 to +125℃							
Rated Voltage Range	2.5 to 20V _{dc}							
Capacitance Tolerance	±20% (M) (at 20℃, 120Hz)							
Leakage Current *Note	Shall not exceed values shown in STANDARD RATINGS. (at 20℃ after 2 minutes)							
Dissipation Factor (tan δ)	0.12 max. (at 20℃, 120Hz)							
Low Temperature Characteristics (Max. Impedance Ratio)	Z(-25℃)/Z(+20℃)≤1.15 Z(-55℃)/Z(+20℃)≤1.25 (at 100kHz)							
Endurance	The following specifications shall be satisfied when the capacitors are restored to 20℃ after the rated voltage is applied for 1,000 hours at 125℃.							
	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					
Bias Humidity	The following specifications shall be satisfied when the capacitors are restored to 20℃ after subjecting them to the DC rated voltage at 60℃, 90 to 95% RH for 1,000 hours.							
	Appearance		No significant damage					
	Capacitance change		≤ ±20% of the initial value					
	D.F. (tan δ)		≤150% of the initial specified value					
	ESR		≤150% of the initial specified value					
	Leakage current		≤The initial specified value					
Surge Voltage	The capacitors shall be subjected to 1,000 cycles each consisting of charge with the surge voltage specified at 125℃ for 30 seconds through a protective resistor(R=1kΩ) and discharge for 5 minutes 30 seconds.							
	Rated voltage (V _{dc})		2.5	4.0	6.3	10	16	20
	Surge voltage (V _{ac})		2.9	4.6	7.2	12	18	23
	Appearance		No significant damage					
	Capacitance change		≤ ±20% of the initial value					
	D.F. (tan δ)		≤150% of the initial specified value					
	ESR		≤150% of the initial specified value					
	Leakage current		≤The initial specified value					
Soldering Heat	The following specifications shall be satisfied when the solder temperature is reduced back to 20℃ to measure dip resistance after soldering has been performed under the recommended soldering conditions.							
	Appearance		No significant damage					
	Capacitance value		Within the specified tolerance range					
	D.F. (tan δ)		≤The initial specified value					
	ESR		≤The initial specified value					
	Leakage current		≤The initial specified value (Voltage treatment)					
Failure Rate	0.5% per 1,000 hours maximum (Confidence level 60% at 125℃)							

*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
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
J80	10	7.7	10.3	10.3	11.0	0.7 to 1.1	4.5

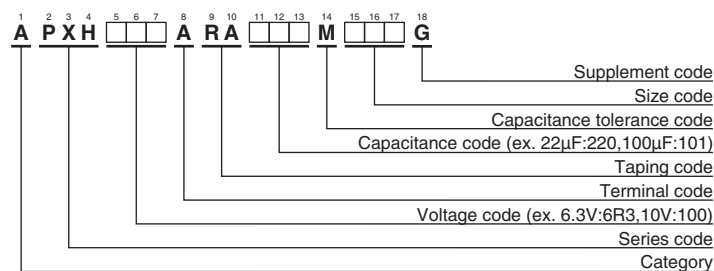
MARKING

EX) 20V22μF



NPCAP™-PXH Series

◆PART NUMBERING SYSTEM



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

◆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 ≤ T _x ≤ +105°C ^{*1}	+105°C < T _x ≤ +125°C ^{*1}	
2.5	220	F60	110	35	2,500	770	APXH2R5ARA221MF60G
	560	H70	280	30	3,100	960	APXH2R5ARA561MH70G
	1,000	J80	500	25	3,700	1,100	APXH2R5ARA102MJ80G
4	150	F60	120	35	2,450	770	APXH4R0ARA151MF60G
	220	H70	176	30	3,020	960	APXH4R0ARA221MH70G
	680	J80	544	25	3,700	1,100	APXH4R0ARA681MJ80G
6.3	82	F60	103	40	2,400	720	APXH6R3ARA820MF60G
	100	F60	126	40	2,400	720	APXH6R3ARA101MF60G
	150	H70	189	30	3,020	960	APXH6R3ARA151MH70G
	220	H70	277	30	3,020	960	APXH6R3ARA221MH70G
10	470	J80	592	25	3,700	1,100	APXH6R3ARA471MJ80G
	56	F60	112	45	2,250	680	APXH100ARA560MF60G
	120	H70	240	35	2,800	880	APXH100ARA121MH70G
	150	H70	300	35	2,800	880	APXH100ARA151MH70G
16	330	J80	660	30	3,700	1,010	APXH100ARA331MJ80G
	39	F60	125	50	2,050	650	APXH160ARA390MF60G
	82	H70	262	40	2,700	830	APXH160ARA820MH70G
	150	J80	480	35	3,020	930	APXH160ARA151MJ80G
20	180	J80	576	35	3,020	930	APXH160ARA181MJ80G
	22	F60	88.0	60	1,650	590	APXH200ARA220MF60G
	47	H70	188	45	2,000	780	APXH200ARA470MH70G
	82	J80	328	45	2,400	820	APXH200ARA820MJ80G

*1 T_x : Ambient temperature (°C)

◆RATED RIPPLE CURRENT MULTIPLIERS

●Frequency Multipliers

Frequency (Hz)	120	1k	10k	50k	100k to 500k
2.5 to 6.3V _{dc}	0.05	0.30	0.55	0.70	1.00
10 to 20V _{dc}	0.05	0.25	0.55	0.55	1.00

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

United Chemi-Con (UCC):

[APXH6R3ARA471MJ80G](#) [APXH160ARA820MH70G](#) [APXH160ARA151MJ80G](#) [APXH4R0ARA681MJ80G](#)
[APXH160ARA181MJ80G](#) [APXH200ARA220MF60G](#) [APXH6R3ARA101MF60G](#) [APXH100ARA121MH70G](#)
[APXH100ARA151MH70G](#) [APXH6R3ARA151MH70G](#) [APXH2R5ARA102MJ80G](#) [APXH2R5ARA221MF60G](#)
[APXH100ARA560MF60G](#) [APXH200ARA820MJ80G](#) [APXH200ARA470MH70G](#) [APXH100ARA331MJ80G](#)
[APXH6R3ARA221MH70G](#) [APXH4R0ARA221MH70G](#) [APXH4R0ARA151MF60G](#) [APXH160ARA390MF60G](#)
[APXH6R3ARA820MF60G](#) [APXH2R5ARA561MH70G](#) [APXH200ARA220MF60S](#)



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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