NPCAP™-PXJ Series Upgrade!

- Super low ESR, impedance and high heat resistance have been obtained by using conductive polymer as electrolyte.
- Rated voltage range : 2.5 to 25Vdc, Capacitance range : 56 to 1,200µF
- Case size range : φ6.3×5.8L to φ8×6.7L
- Suitable for DC-DC converters, voltage regulators and decoupling applications used on computer motherboards etc.
- Solvent resistant type (see PRECAUTIONS AND GUIDELINES)
- RoHS2 Compliant
- Halogen Free

PXJ
↑ Downsizied
PXG

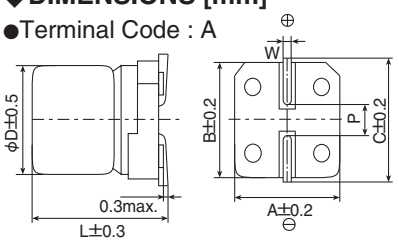
◆SPECIFICATIONS

Items	Characteristics
Category Temperature Range	-55 to +105℃
Rated Voltage Range	2.5 to 25Vdc
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 15,000 hours at 105℃.
	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
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 105℃ for 30 seconds through a protective resistor(R=1kΩ) and discharge for 5 minutes 30 seconds.
	Rated voltage (Vdc): 2.5 / 6.3 / 10 / 16 / 20 / 25
	Surge voltage (Vdc): 2.9 / 7.2 / 12 / 18 / 23 / 29
	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°C 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)

*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 105℃.

◆DIMENSIONS [mm]

●Terminal Code : A



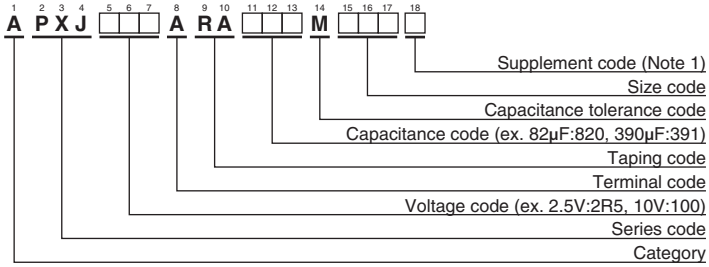
Size Code	φD	L	A	B	C	W	P
F61	6.3	5.8	6.6	6.6	7.2	0.5 to 0.8	1.9
F80	6.3	7.7	6.6	6.6	7.2	0.5 to 0.8	1.9
H70	8	6.7	8.3	8.3	9.0	0.7 to 1.1	3.1

◆MARKING

EX) 2.5V820µF

NPCAP™-PXJ Series Upgrade!

◆PART NUMBERING SYSTEM



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

(Note1) :PXJ series, 16V270μF (ESR 10mΩ max.) has supplement code "J", and (ESR 8mΩ max.) has supplement code "X". Terminal and terminal plating are the same as all other in PXJ series.

◆STANDARD RATINGS

WV (V_{dc})	Cap (μF)	Size code	Leakage current (μA max./after 2min.)	ESR (mΩ max./20℃, 100k to 300kHz)	Rated ripple current (mArms/105℃, 100kHz)	Part No.
2.5	820	F61	1,020	10	4,900	APXJ2R5ARA821MF61G
	820	F80	1,020	7	5,000	APXJ2R5ARA821MF80G
	1,200	H70	1,500	10	4,500	APXJ2R5ARA122MH70G
6.3	390	F61	1,220	10	4,900	APXJ6R3ARA391MF61G
	560	F80	1,760	8	5,000	APXJ6R3ARA561MF80G
	680	H70	2,140	10	4,500	APXJ6R3ARA681MH70G
10	270	F61	1,350	15	4,000	APXJ100ARA271MF61G
	390	F80	1,950	13	4,460	APXJ100ARA391MF80G
	470	H70	2,350	15	4,000	APXJ100ARA471MH70G
16	220	F61	704	20	3,500	APXJ160ARA221MF61G
	270	**F80**	**864**	**8**	**5,800**	**APXJ160ARA271MF80X**
	270	F80	864	10	5,080	APXJ160ARA271MF80J
	270	F80	864	13	4,460	APXJ160ARA271MF80G
	390	H70	1,240	25	3,600	APXJ160ARA391MH70G
20	150	F61	600	23	3,300	APXJ200ARA151MF61G
	150	F80	600	18	3,790	APXJ200ARA151MF80G
	220	H70	880	28	3,300	APXJ200ARA221MH70G
25	56	F61	280	28	3,000	APXJ250ARA560MF61G
	82	F80	410	28	3,040	APXJ250ARA820MF80G
	120	H70	600	38	3,200	APXJ250ARA121MH70G

New products are indicated in red text.

◆RATED RIPPLE CURRENT MULTIPLIERS

●Frequency Multipliers

Frequency(Hz)	120	1k	10k	50k	100k to 500k
SMD type	0.05	0.30	0.55	0.70	1.00

■ Always read "Notes on Use" before using the product in order to enable you to use the product correctly and prevent any faults and accidents from occurring.

■ Request the Product Specification on the product of NIPPON CHEMI-CON CORPORATION to refer to it as well as this brochure prior to the order of the products. Some specific notes on use of the ordered product may be described in the specifications.

■ The products listed in this catalog are designed and manufactured for general electronics equipment use and are not intended for use in applications that can adversely affect human life; where the malfunction of equipment may cause damage to life or property. In addition, our products are not intended to be used in specific applications that may cause a major social impact. Please consult with us in advance of usage of our products in the following listed applications. ① Aerospace equipment ② Power generation equipment such as thermal power, nuclear power etc. ③ Medical equipment ④ Transport equipment (automobiles, trains, ships, etc.) ⑤ Transportation control equipment ⑥ Disaster prevention / crime prevention equipment ⑦ Highly publicized information processing equipment ⑧ Submarine equipment ⑨ Other applications that are not considered general-purpose applications.

■ The circuits described as examples in this catalog and the "delivery specifications" are featured in order to show the operations and usage of our products, however, this fact does not guarantee that the circuits are available to function in your equipment systems. We are not in any case responsible for any failures or damage caused by the use of information contained herein. You should examine our products, of which the characteristics are described in the "delivery specifications" and other documents, and determine whether or not our products suit your requirements according to the specifications of your equipment systems. Therefore, you bear final responsibility regarding the use of our products.
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