NPCAP[™]-PXESeries

- 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 16Vdc, Capacitance range : 33 to 2,700µF



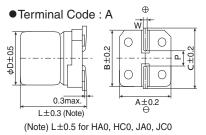
- Suitable for DC-DC converters, voltage regulators and decoupling applications used on computer motherboards etc.
 Converters registers three (case DDECAUTIONS AND CLUDELINES)
- Solvent resistant type (see PRECAUTIONS AND GUIDELINES)
- RoHS2 Compliant
 Halogen Free

SPECIFICATIONS

Leakage Current Note Shall not exceed values shown in STANDARD RATINGS. (at 20°C after 2 min Dissipation Factor 0.12 max 0.12 max							
Capacitance Tolerance $\pm 20\%$ (M)(at 20° C, 1.Leakage Current 'NoteShall not exceed values shown in STANDARD RATINGS.(at 20° C after 2 minDissipation Factor (tan δ)0.12 max.(at 20° C, 1.Low Temperature Characteristics 	-55 to +105℃						
Leakage Current *Note Shall not exceed values shown in STANDARD RATINGS. (at 20°C after 2 min (at 20°C, 1) Dissipation Factor (tan δ) 0.12 max. (at 20°C, 1) Low Temperature Characteristics (Max. Impedance Ratio) $Z(-25^{\circ}C)/Z(+20^{\circ}C) \leq 1.15$ $Z(-55^{\circ}C)/Z(+20^{\circ}C) \leq 1.25$ (at 10 Endurance The following specifications shall be satisfied when the capacitors are restored to 20°C after the rated voltage is applied for 15,000 at 105°C. Appearance No significant damage Capacitance change $\leq \pm 20\%$ of the initial specified value D.F. (tan δ) $\leq 150\%$ of the initial specified value ESR $\leq 150\%$ of the initial specified value	2.5 to 16V _{dc}						
Note (at 20°C after 2 min Dissipation Factor (tan δ) 0.12 max. (at 20°C, 11 Low Temperature Characteristics (Max. Impedance Ratio) Z(-25°C)/Z(+20°C)≦1.15 Z(-55°C)/Z(+20°C)≦1.25 (at 10 Endurance The following specifications shall be satisfied when the capacitors are restored to 20°C after the rated voltage is applied for 15,000 at 105°C. Appearance No significant damage Capacitance change ≤ ±20% of the initial specified value D.F. (tan δ) ≤ 150% of the initial specified value ESR ≤ 150% of the initial specified value	±20% (M) (at 20°C, 120Hz)						
(tan δ)0.12 max.(at 20°C, 1.15)Low Temperature Characteristics (Max. Impedance Ratio) $Z(-25^{\circ}C)/Z(+20^{\circ}C) \leq 1.15$ $Z(-55^{\circ}C)/Z(+20^{\circ}C) \leq 1.25$ (at 10EnduranceThe following specifications shall be satisfied when the capacitors are restored to 20°C after the rated voltage is applied for 15,000 at 105°C.(at 105°C (Chaperance)AppearanceNo significant damage $Capacitance change$ $\leq \pm 20\%$ of the initial specified value ESR $\leq 150\%$ of the initial specified value	Shall not exceed values shown in STANDARD RATINGS. (at 20°C after 2 minutes)						
Characteristics (Max. Impedance Ratio) $Z(-25 \text{ C})/Z(+20 \text{ C}) \cong 1.15$ $Z(-55 \text{ C})/Z(+20 \text{ C}) \cong 1.25$ (at 10 Endurance The following specifications shall be satisfied when the capacitors are restored to 20°C after the rated voltage is applied for 15,000 at 105°C. Appearance No significant damage Capacitance change $\leq \pm 20\%$ of the initial specified value D.F. (tan δ) $\leq 150\%$ of the initial specified value ESR $\leq 150\%$ of the initial specified value	0.12 max. (at 20°C, 120Hz)						
at 105°C.AppearanceNo significant damageCapacitance change $\leq \pm 20\%$ of the initial valueD.F. (tan δ) $\leq 150\%$ of the initial specified valueESR $\leq 150\%$ of the initial specified value							
Capacitance change $\leq \pm 20\%$ of the initial valueD.F. (tan δ) $\leq 150\%$ of the initial specified valueESR $\leq 150\%$ of the initial specified value	ours						
D.F. (tan δ) $\leq 150\%$ of the initial specified valueESR $\leq 150\%$ of the initial specified value							
ESR ≦150% of the initial specified value							
Leakage current SThe 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 volta	e at						
60°C, 90 to 95% RH for 1,000 hours.							
Appearance No significant damage							
Capacitance change $\leq \pm 20\%$ of the initial value							
D.F. $(\tan \delta) \leq 150\%$ of the initial specified value							
$ESR \leq 150\% \text{ of the initial specified value}$							
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°C for 30 sec through a protective resistor(R=1kΩ) and discharge for 5 minutes 30 seconds.	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=1k Ω) and discharge for 5 minutes 30 seconds.						
Rated voltage (V _{dc}) 2.5 4.0 6.3 10 16							
Surge voltage (V _{dc}) 2.9 4.6 7.2 12 18							
Appearance No significant damage Capacitance change $\leq \pm 20\%$ of the initial value							
Capacitance change $\leq \pm 20\%$ of the initial valueD.F. (tan δ) $\leq 150\%$ of the initial specified value							
$\frac{1}{1} = 150\% \text{ of the initial specified value}$							
Leakage current ≦150% of the initial specified value							
Soldering Heat The following specifications shall be satisfied when the solder temperature is reduced back to 20°C to measure dip resistance	aftor						
soldering heat soldering heat soldering heat solder the solder temperature is reduced back to 20°C to measure dipresistance soldering conditions.							
Appearance No significant damage							
Capacitance value Within the specified tolerance range							
D.F. (tan δ) \leq 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°C.

DIMENSIONS [mm]

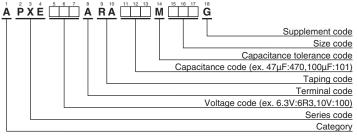


Size Code	φD	L	Α	В	С	w	Р	
E61	5	5.8	5.3	5.3	5.9	0.5 to 0.8	1.4	
F61	6.3	5.8	6.6	6.6	7.2	0.5 to 0.8	1.9	
F80	6.3	7.7	6.6	6.6	7.2	0.5 to 0.8	1.9	
H70	8	6.7	8.3	8.3	9.0	0.7 to 1.1	3.1	
H80	8	7.7	8.3	8.3	9.0	0.7 to 1.1	3.1	
HA0	8	10.0	8.3	8.3	9.0	0.7 to 1.1	3.1	
HC0	8	12.0	8.3	8.3	9.0	0.7 to 1.1	3.1	
J80	10	7.7	10.3	10.3	11.0	0.7 to 1.1	4.5	
JA0	10	10.0	10.3	10.3	11.0	0.7 to 1.1	4.5	
JC0	10	12.2	10.3	10.3	11.0	0.7 to 1.1	4.5	





◆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 (mArms/105°C, 100kHz)	Part No.
	180	E61	90.0	21	2,670	APXE2R5ARA181ME61G
	390	F61	195	15	3,160	APXE2R5ARA391MF61G
	470	F80	235	13	3,600	APXE2R5ARA471MF80G
	560	F80	280	13	3,600	APXE2R5ARA561MF80G
	560	H70	280	13	4,100	APXE2R5ARA561MH70G
	680	H70	340	13	4,100	APXE2R5ARA681MH70G
2.5	820	H80	410	12	4,260	APXE2R5ARA821MH80G
2.5	820	HC0	410	9	5,400	APXE2R5ARA821MHC0G
	1,000	H80	500	12	4,260	APXE2R5ARA102MH80G
	1,200	J80	600	13	4,450	APXE2R5ARA122MJ80G
	1,500	HA0	750	10	5,220	APXE2R5ARA152MHA0G
	1,500	HC0	750	9	5,400	APXE2R5ARA152MHC0G
	2,200	JA0	1,100	10	5,500	APXE2R5ARA222MJA0G
	2,700	JC0	1,350	9	5,600	APXE2R5ARA272MJC0G
	100	E61	80.0	22	2,610	APXE4R0ARA101ME61G
	150	E61	120	22	2,610	APXE4R0ARA151ME61G
	270	F61	216	15	3,160	APXE4R0ARA271MF61G
	330	F61	264	15	3,160	APXE4R0ARA331MF61G
	390	F80	312	14	3,470	APXE4R0ARA391MF80G
	470	H70	376	14	3,950	APXE4R0ARA471MH70G
	560	H70	448	14	3,950	APXE4R0ARA561MH70G
4	680	H80	544	13	3,950	APXE4R0ARA681MH80G
	1,000	HA0	800	10	5,220	APXE4R0ARA102MHA0G
	1,000	J80	800	14	4,300	APXE4R0ARA102MJ80G
	1,200	HC0	960	9	5,400	APXE4R0ARA122MHC0G
	1,200	JA0	960	10	5,500	APXE4R0ARA122MJA0G
	1,500	JA0	1,200	10	5,500	APXE4R0ARA152MJA0G
	1,800	JA0	1,440	10	5,500	APXE4R0ARA182MJA0G
	1,800	JC0	1,440	9	5,600	APXE4R0ARA182MJC0G
	100	E61	126	24	2,500	APXE6R3ARA101ME61G
	120	E61	151	24	2,500	APXE6R3ARA121ME61G
	220	F61	277	15	3,160	APXE6R3ARA221MF61G
	270	F80	340	14	3,470	APXE6R3ARA271MF80G
	330	F80	415	14	3,470	APXE6R3ARA331MF80G
	330	H70	415	14	3,950	APXE6R3ARA331MH70G
6.3	390	H70	491	14	3,950	APXE6R3ARA391MH70G
0.0	470	H80	592	13	3,950	APXE6R3ARA471MH80G
	820	HA0	1,030	12	4,770	APXE6R3ARA821MHA0G
	820	HC0	1,030	10	5,150	APXE6R3ARA821MHC0G
	820	J80	1,030	14	4,300	APXE6R3ARA821MJ80G
	1,200	JA0	1,510	12	5,025	APXE6R3ARA122MJA0G
	1,500	JA0	1,890	12	5,025	APXE6R3ARA152MJA0G
	1,500	JC0	1,890	10	5,500	APXE6R3ARA152MJC0G

Production of the products shown in _____ is scheduled to be discontinued.

Product specifications in this catalog are subject to change without notice. Request our product specifications before purchase and/or use. Please use our products based on the information contained in this catalog and product specifications.



♦STANDARD RATINGS

WV (V _{dc})	Сар (µF)	Size code	Leakage current (µA max./after 2min.)	ESR (mΩ max./20°C, 100k to 300kHz)	Rated ripple current (mArms/105°C, 100kHz)	Part No.
	47	E61	94.0	28	2,310	APXE100ARA470ME61G
	56	E61	112	28	2,310	APXE100ARA560ME61G
	68	E61	136	28	2,310	APXE100ARA680ME61G
	120	F61	240	25	2,530	APXE100ARA121MF61G
	150	F80	300	21	2,880	APXE100ARA151MF80G
10	220	H70	440	21	3,220	APXE100ARA221MH70G
	270	H70	540	21	3,220	APXE100ARA271MH70G
	330	H80	660	19	3,390	APXE100ARA331MH80G
	390	HA0	780	17	4,000	APXE100ARA391MHA0G
	470	J80	940	19	3,800	APXE100ARA471MJ80G
	680	JA0	1,360	13	4,820	APXE100ARA681MJA0G
	33	E61	105	35	2,070	APXE160ARA330ME61G
	39	E61	124	35	2,070	APXE160ARA390ME61G
	68	F61	217	28	2,390	APXE160ARA680MF61G
	82	F80	262	24	2,700	APXE160ARA820MF80G
	100	F80	320	24	2,700	APXE160ARA101MF80G
16	100	H70	320	24	3,010	APXE160ARA101MH70G
10	120	H70	384	24	3,010	APXE160ARA121MH70G
	150	H80	480	22	3,150	APXE160ARA151MH80G
	180	HA0	576	18	3,890	APXE160ARA181MHA0G
	220	HA0	704	18	3,890	APXE160ARA221MHA0G
	220	J80	704	22	3,450	APXE160ARA221MJ80G
	330	JA0	1,050	16	4,350	APXE160ARA331MJA0G

Production of the products shown in _____ is scheduled to be discontinued.

♦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

CHEMI-CON CONDUCTIVE POLYMER ALUMINUM SOLID CAPACITORS Product Guide

- 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.

Please make sure that you take appropriate safety measures such as use of redundant design and malfunction prevention measures in order to prevent fatal accidents and/or fires in the event any of our products malfunction.

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- We reserve the right to discontinue production and delivery of products. We do not guarantee that all the products included in this catalog will be available in the future. The aforementioned does not apply in the case of individual agreements deviating from the foregoing for customer-specific products
- We continually strive to improve the quality and reliability of our products, but in any case that our product does not meet our published specifications, please stop using it promptly and contact us immediately. As for compensation for non-conforming goods delivered by Chemi-Con, we will limit it only to goods found in non-compliance of our published specifications. This may be accomplished by a no cost replacement of non-conforming individual products, a credit of the piece price paid per each individual non-conforming product, or in other ways deemed necessary.

In addition, we have an established system with enhanced traceability, therefore we will limit the applicable lot items for any potential compensation.

Part Numbering System Part Numbering System (Appendix) Standardization Available Items by Manufacturing Locations Environmental Measures Technical Note Precautions and Guidelines Recommended Soldering Conditions Taping, Lead-preforming, Terminal and Packaging Options 单击下面可查看定价,库存,交付和生命周期等信息

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