

- Super low ESR, impedance and high heat resistance have been obtained by using conductive polymer as electrolyte.
- \blacksquare Rated voltage range : 2.5 to 16Vdc, Capacitance range : 100 to 560 μF
- Suitable for DC-DC converters, voltage regulators and decoupling applications used to computer motherboards etc.
- Solvent resistant type (see PRECAUTIONS AND GUIDELINES)
- RoHS2 Compliant
- Halogen Free

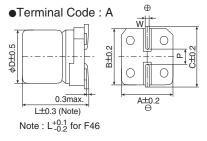
SPECIFICATIONS

Items	Characteristics					
Category Temperature Range	-55 to +105℃					
Rated Voltage Range	2.5 to 16V _{dc}					
Capacitance Tolerance	±20% (M)		(at 20℃, 120Hz)			
Leakage Current *Note	Shall not exceed values	shown in STANDARD RATINGS.	(at 20°C after 2 minutes)			
Dissipation Factor $(\tan \delta)$	0.12 max.		(at 20°C, 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°C after the rated voltage is applied for 15,000 h (F46 : 3,000 hours) at 105°C.					
	Appearance	No significant damage				
	Capacitance change	$\leq \pm 20\%$ of the initial value				
	D.F. (tan δ)	\leq 150% of the initial specified value				
	ESR	\leq 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°C after subjecting them to the DC rat 60°C, 90 to 95% RH for 1,000 hours (F46 : 500hours).					
	Appearance	No significant damage				
	Capacitance change	$\leq \pm 20\%$ 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°C for through a protective resistor($R=1k\Omega$) and discharge for 5 minutes 30 seconds.					
	Rated voltage (Vdc)	2.5 4.0 6.3 16				
	Surge voltage (Vdc)	2.9 4.6 7.2 18]			
	Appearance	No significant damage				
	Capacitance change	$\leq \pm 20\%$ of the initial value				
	D.F. (tan δ)	\leq 150% of the initial specified value				
	ESR	\leq 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 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)			
	Lounage ourient					

*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]



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
F46	6.3	4.5	6.6	6.6	7.2	0.5 to 0.8	1.9
F61	6.3	5.8	6.6	6.6	7.2	0.5 to 0.8	1.9

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.





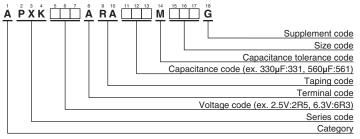
ΡΧΚ

PXE

Downsized



♦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.
	220	F46	300	19	2,780	APXK2R5ARA221MF46G
2.5	330	E61	412	16	3,500	APXK2R5ARA331ME61G
2.5	330	F46	700	16	3,500	APXK2R5ARA331MF46G
	560	F61	700	16	3,500	APXK2R5ARA561MF61G
	180	F46	360	19	2,780	APXK4R0ARA181MF46G
4	220	E61	440	17	3,390	APXK4R0ARA221ME61G
	390	F61	780	17	3,390	APXK4R0ARA391MF61G
	150	F46	472	19	2,780	APXK6R3ARA151MF46G
6.3	180	E61	567	17	3,390	APXK6R3ARA181ME61G
0.3	220	F46	700	18	3,200	APXK6R3ARA221MF46G
	330	F61	1,040	17	3,390	APXK6R3ARA331MF61G
16	100	F61	320	24	2,490	APXK160ARA101MF61G

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♦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.

- We strongly recommend our customers to purchase Nippon Chemi-Con products only through our official sales channels. We assume no responsibility for any defects or damages caused by using products purchased from outside our official sales channel or of counterfeit goods. In addition, we will ask the customer to pay the investigation cost for products purchased outside our official sales channel.
- 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
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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

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 APA0812102M006R
 APA0812122M004R
 APA0812471M016R
 APA0812561M016R
 HHXD630ARA330MJA0G

 HHXD350ARA270MF61G
 HHXD350ARA220ME61G
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 RS81C271MDN1CG
 PM101M016E058PTR
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 SPZ1EM221E10P25RAXXX
 APSE2R5ETD821MF08S
 SPZ1EM681F14000RAXXX
 SPZ1AM102F11000RAXXX

 SPV1VM471G13000RAXXX
 SPV1VM101E08000RAXXX
 SPZ1VM821G18000RAXXX
 SPV1HM331G15000RAXXX

 SPZ1HM221G12000RAXXX
 SPZ1CM471E11000RAXXX
 SVZ1EM221E09E00RAXXX
 PM101M035E077PTR
 HV1A227M0605PZ

 HV1C107M0605PZ
 HV1C227M0607PZ
 HV1H107M0810PZ
 149EC920
 149EC921
 118EC222
 118EC247
 118EC333

 118EC220
 118EC225
 118EC235
 118EC227
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