- OSuper low ESR, impedance and high heat resistance have been obtained by using conductive polymer as electrolyte.
- For automobile modules and other high temperature applications
- Endurance: 125°C 2,000 hours
- Rated voltage range: 2.5 to 10Vdc, Capacitance range: 47 to 470μF
- Solvent resistant type (see PRECAUTIONS AND GUIDELINES)
- RoHS2 Compliant
- Halogen Free
- AEC-Q200 compliant : Please contact Chemi-Con for more details, test data, information.



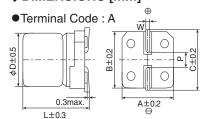


SPECIFICATIONS

Items	Characteristics						
	Cital acteristics						
Category Temperature Range	-55 to +125℃						
Rated Voltage Range	2.5 to 10V _{dc}						
Capacitance Tolerance	±20% (M) (at 20°C, 120Hz)						
Leakage Current *Note	Shall not exceed values shown in STANDARD RATINGS. (at 20°C after 2 minute						
Dissipation Factor (tan δ)	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						
Endurance	The following specifications shall be satisfied when the capacitors are restored to 20°C after the rated voltage is applied for 2,000 hours at 125°C.						
	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°C after subjecting them to the DC rated voltage at 60°C, 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°C for 30 seconds through a protective resistor(R=1kΩ) and discharge for 5 minutes 30 seconds.						
	Rated voltage (Vdc)	2.5 6.3 10					
	Surge voltage (V _{dc})	2.9 7.2 12					
	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 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)						

*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]



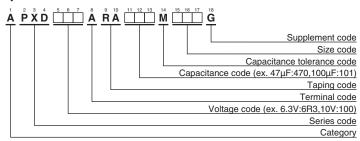
Size code	φD	L	Α	В	С	W	Р
E61	5	5.8	5.3	5.3	5.9	0.5 to 0.8	1.4
F61	6.3	5.8	6.6	6.6	7.2	0.5 to 0.8	1.9
H70	8	6.7	8.3	8.3	9.0	0.7 to 1.1	3.1
J80	10	7.7	10.3	10.3	11.0	0.7 to 1.1	4.5







◆PART NUMBERING SYSTEM



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

STANDARD RATINGS

WV (V _{dc})	Cap (µF)	Size code	Leakage current	ESR (mΩ max./20°C, 100k to 300kHz)	Rated ripp (mArms/	Part No.	
(Vdc)			(µA max./aiter zimii.)	(IIIsz IIIax./20 C, TOOK to SOOKHZ)	-55°C≦Tx≦+105°C ^{*1}	+105℃ <tx≦+125℃< th=""><th></th></tx≦+125℃<>	
2.5	120	E61	60.0	40	1,450	650	APXD2R5ARA121ME61G
2.5	220	F61	110	30	2,500	770	APXD2R5ARA221MF61G
	56	E61	70.5	45	1,380	600	APXD6R3ARA560ME61G
6.3	100	F61	126	35	2,400	720	APXD6R3ARA101MF61G
0.3	220	H70	277	30	3,020	960	APXD6R3ARA221MH70G
	470	J80	592	25	3,500	1,100	APXD6R3ARA471MJ80G
	47	E61	94.0	50	1,270	550	APXD100ARA470ME61G
10	56	F61	112	40	2,250	680	APXD100ARA560MF61G
10	150	H70	300	35	2,800	880	APXD100ARA151MH70G
	330	J80	660	25	3,500	1,100	APXD100ARA331MJ80G

^{*1} Tx : Ambient temperature (°C)

◆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.

 Please make sure that you take appropriate safety measures such as use of redundant design and malfunction prevention
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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
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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