

- 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.
- Solvent resistant type (see PRECAUTIONS AND GUIDELINES)
- RoHS2 Compliant
- Halogen Free





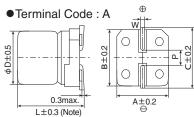
SPECIFICATIONS

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 δ)	0.12 max.							(at 20℃, 120Hz)	
Low Temperature Characteristics (Max. Impedance Ratio)	$Z(-25^{\circ}C)/Z(+20^{\circ}C) \le 1.15$ $Z(-55^{\circ}C)/Z(+20^{\circ}C) \le 1.25$							(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 hours at 105°C.								
	Appearance No significant damage								
	Capacitance change								
	D.F. (tan δ)	≦150% of the initial specified value							
	ESR	≤150% of the initial specified value							
	Leakage current	≦The initia	al speci	fied 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								with the surge voltage specified at 105℃ for 30 seconds	
	through a protective res	T - T -		1 -		7		ds.	
	Rated voltage (Vdc)	2.5	4.0	6.3	10	1			
	Surge voltage (V _{dc})	2.9	4.6	7.2	12	1	8		
						7			
	Appearance No significant damage								
	Capacitance change ≤±20% of the initial value								
	D.F. (tan δ)	≦150% of the initial specified value							
	ESR								
	Leakage current	≦The initia							
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	9 9							
	Capacitance value	·							
	D.F. (tan δ)	≦The initial specified value							
	ESR	≦The initial specified value							
	Leakage current	≦The initial specified value (Volta 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]

(Note) L±0.5 for HC0, JC0



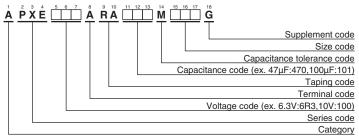
Size Code	φD	L	Α	В	С	W	Р
E61	5	5.8	5.3	5.3	5.9	0.5 to 0.8	1.4
F61	6.3	5.8	6.6	6.6	7.2	0.5 to 0.8	1.9
F80	6.3	7.7	6.6	6.6	7.2	0.5 to 0.8	1.9
H70	8	6.7	8.3	8.3	9.0	0.7 to 1.1	3.1
HC0	8	12.0	8.3	8.3	9.0	0.7 to 1.1	3.1
J80	10	7.7	10.3	10.3	11.0	0.7 to 1.1	4.5
JC0	10	12.2	10.3	10.3	11.0	0.7 to 1.1	4.5







◆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℃, 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
2.5	560	H70	280	13	4,100	APXE2R5ARA561MH70G
2.5	680	H70	340	13	4,100	APXE2R5ARA681MH70G
	820	HC0	410	9	5,400	APXE2R5ARA821MHC0G
	1,200	J80	600	13	4,450	APXE2R5ARA122MJ80G
	1,500	HC0	750	9	5,400	APXE2R5ARA152MHC0G
	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
4	390	F80	312	14	3,470	APXE4R0ARA391MF80G
4	470	H70	376	14	3,950	APXE4R0ARA471MH70G
	560	H70	448	14	3,950	APXE4R0ARA561MH70G
	1,000	J80	800	14	4,300	APXE4R0ARA102MJ80G
	1,200	HC0	960	9	5,400	APXE4R0ARA122MHC0G
	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
6.3	330	F80	415	14	3,470	APXE6R3ARA331MF80G
0.3	330	H70	415	14	3,950	APXE6R3ARA331MH70G
	390	H70	491	14	3,950	APXE6R3ARA391MH70G
	820	HC0	1,030	10	5,150	APXE6R3ARA821MHC0G
	820	J80	1,030	14	4,300	APXE6R3ARA821MJ80G
	1,500	JC0	1,890	10	5,500	APXE6R3ARA152MJC0G





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℃, 100kHz)	Part No.
	47	E61	94.0	28	2,310	APXE100ARA470ME61G
	56 E6	E61	112	28	2,310	APXE100ARA560ME61G
	68	E61	136	28	2,310	APXE100ARA680ME61G
10	120	F61	240	25	2,530	APXE100ARA121MF61G
10	150	F80	300	21	2,880	APXE100ARA151MF80G
	220	H70	440	21	3,220	APXE100ARA221MH70G
	270	H70	540	21	3,220	APXE100ARA271MH70G
	470	J80	940	19	3,800	APXE100ARA471MJ80G
	33	E61	105	35	2,070	APXE160ARA330ME61G
	39	E61	124	35	2,070	APXE160ARA390ME61G
	68	F61	217	28	2,390	APXE160ARA680MF61G
16	82	F80	262	24	2,700	APXE160ARA820MF80G
16	100	F80	320	24	2,700	APXE160ARA101MF80G
	100	H70	320	24	3,010	APXE160ARA101MH70G
	120	H70	384	24	3,010	APXE160ARA121MH70G
	220	J80	704	22	3,450	APXE160ARA221MJ80G

♦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



- **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.
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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

products

Mouser Electronics

Authorized Distributor

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