

- 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

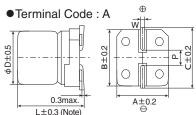
Items	Characteristics							
Category Temperature Range	-55 to +105℃							
Rated Voltage Range	2.5 to 16V _{dc}							
Capacitance Tolerance	±20% (M)					(at 20℃, 120Hz)		
Leakage Current *Note	Shall not exceed values	shown in STANDA	RD RATING	S.		(at 20°C after 2 minutes)		
Dissipation Factor (tan δ)	0.12 max.					(at 20℃, 120Hz)		
Low Temperature Characteristics (Max. Impedance Ratio)	Z(-25°C)/Z(+20°C)≦1.15 Z(-55°C)/Z(+20°C)≦1.25					(at 100kHz)		
Endurance	The following specificatio at 105℃.			pacitors a	re restore	ed to 20°C after the rated voltage is applied for 15,000 hours		
	Appearance	No significant d	amage					
	Capacitance change	$\leq \pm 20\%$ of the	initial value					
	D.F. (tan δ)	≤150% of the initial specified value						
	ESR	≦150% of the i	nitial specifie	d value				
	Leakage current	≦The initial spe	cified 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		1			
	D.F. (tan δ)	≦150% of the initial specified value						
	ESR	≦150% of the i	nitial specifie	d value	1			
	Leakage current	≦The initial spe	cified value		1			
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 seconds							
	through a protective resistor($R=1k\Omega$) and discharge for 5 minutes 30 seconds.							
	Rated voltage (Vdc)	2.5 4.0	6.3	10	16			
	Surge voltage (V _{dc})	2.9 4.6	7.2	12	18			
					7			
	Appearance No significant damage							
	Capacitance change	$\leq \pm 20\%$ of the			_			
	D.F. (tan δ)	≦150% of the i			_			
	ESR	≦150% of the i		d 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 d						
	Capacitance value	Within the spec		e range				
	D.F. (tan δ)	≦The initial specified value						
	ESR	≦The initial spe						
	Leakage current	≦The initial s treatment)	pecified val	ue (Volta	ige			

*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]

(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

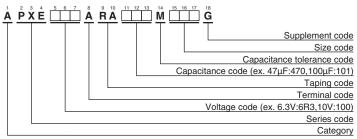
◆MARKING







◆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
	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	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

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