

- Super 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.





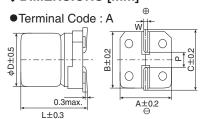
SPECIFICATIONS

SPECIFICATION								
Items	Characteristics							
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 minutes)							
Dissipation Factor (tan δ)	0.12 max. (at 20°C, 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 100kH:							
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	$\leq \pm 20\%$ 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						
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						
	≦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]



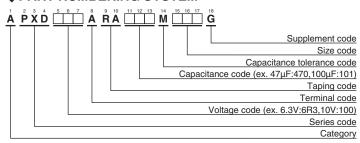
Size code	φD	L	Α	В	С	W	Р
E61	5	5.8	5.3	5.3	5.9	0.5 to 0.8	1.4
F61	6.3	5.8	6.6	6.6	7.2	0.5 to 0.8	1.9
H70	8	6.7	8.3	8.3	9.0	0.7 to 1.1	3.1
J80	10	7.7	10.3	10.3	11.0	0.7 to 1.1	4.5







◆PART NUMBERING SYSTEM



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

STANDARD RATINGS

wv	Cap (µF)	Size code	Leakage current	ESR (mΩ max./20°C, 100k to 300kHz)	Rated ripp (mArms/	Part No.	
(V _{dc})			(µA max./aiter zmin.)	(IIIsz max./20 C, Took to Sookh2)	-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 ($^{\circ}$ C)

◆RATED RIPPLE CURRENT MULTIPLIERS

Frequency Multipliers

	Frequency(Hz)	120 1k		10k	50k	100k to 500k	
ſ	SMD type	0.05	0.30	0.55	0.70	1.00	