



- 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
- ●RoHS Compliant
- Halogen Free





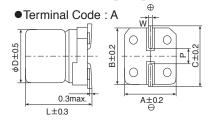
SPECIFICATIONS

Items	Characteristics								
Category Temperature Range	–55 to +125℃								
Rated Voltage Range	2.5 to 10Vdc								
Capacitance Tolerance	±20% (M)	±20% (M) (at 20℃, 120Hz)							
Surge Voltage	Rated voltage ×1.15								
Leakage Current	Shall not exceed values	shown in STANDARD RATINGS.	(at 20°C after 2 minutes)						
Dissipation Factor (tanδ)	0.12 max. (at 20°C, 120Hz)								
Low Temperature Characteristics	Z(-25°C)/Z(+20°C)≦1.15								
(Max. Impedance Ratio)	$Z(-55^{\circ}C)/Z(+20^{\circ}C) \le 1.25$								
, ,		(at 100kHz)							
Endurance		ons shall be satisfied when the capaci	tors are restored to 20℃ after the rated voltage is applied for 2,000 hours						
	at 125℃.		1						
	Appearance	No significant damage							
	Capacitance change	≦±20% of the initial value							
	DF (tanδ)	≦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							
	DF (tanδ)	≦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℃ for 30 seconds								
	through a protective resistor(R=1k Ω) and discharge for 5 minutes 30 seconds.								
	Appearance	No significant damage							
	Capacitance change	≤±20% of the initial value							
	DF (tanδ)	≦150% of the initial specified value							
	ESR	≦150% of the initial specified value							
	Leakage current	≦The initial specified value							
Failure Rate	0.5% per 1,000 hours maximum (Confidence level 60% at 125°C)								

*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℃.

♦DIMENSIONS [mm]

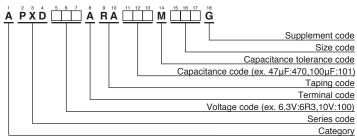


	Size code	φD	L	Α	В	С	W	Р
	E61	5	5.8	5.3	5.3	5.9	0.5 to 0.8	1.4
	F61	6.3	5.8	6.6	6.6	7.2	0.5 to 0.8	1.9
	H70	8	6.7	8.3	8.3	9.0	0.7 to 1.1	3.1
	J80	10	7.7	10.3	10.3	11.0	0.7 to 1.1	4.5

◆MARKING



◆PART NUMBERING SYSTEM



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





♦STANDARD RATINGS

WV(Vdc)	Сар(µF)	Size code	Leakage current	ESR	Rated ripp (mArms/	ole current (100kHz)	Part No.
, ,			(µAmax/after 2min.)	(mΩmax/20°C, 100k to 300kHz)	-55℃ to +105℃	+105℃ to +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