



- Super low ESR, impedance and high heat resistance have been obtained by using conductive polymer as electrolyte.
- Rated voltage range: 2.5 to 25Vdc, Capacitance range: 56 to 1,200μF
- **©** Case size range : ϕ 6.3×5.8L to ϕ 8×6.7L
- 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





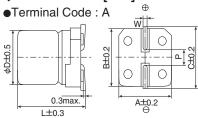
SPECIFICATIONS

Items	Characteristics									
Category Temperature Range	-55 to +105℃									
Rated Voltage Range	2.5 to 25V _{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 100kHz)									
Endurance	The following specifications shall be satisfied when the capacitors are restored to 20°C after at 105°C.								iter the rated voltage is applied for 15,000 hours	
	Appearance	No signi	ficant dam	age						
	Capacitance change	≤±20%	of the ini	tial value						
	D.F. (tan δ)	≦150%	of the initi	al specified	d value					
	ESR	≦150%	of the initi	al specified	d value					
	Leakage current	≦The in	itial specif	ied value						
Bias Humidity	The following specifications shall be satisfied when the capacitors are restored to 20°C after subjecting th 60°C, 90 to 95% RH for 1,000 hours.								after subjecting them to the DC rated voltage at	
	Appearance	arance No significant damage								
	Capacitance change									
	D.F. (tan δ)	≦150%	of the initi	al specified	d value	1				
	ESR	≦150% of the initial specified value								
	Leakage current	≦The in	itial specif	ied value		1				
Surge Voltage	The capacitors shall be subjected to 1,000 cycles each consisting through a protective resistor(R=1kΩ) and discharge for 5 minutes								urge voltage specified at 105℃ for 30 seconds	
	Rated voltage (Vdc)	2.5	6.3	10	16	20		25		
	Surge voltage (V _{dc})			12	18	23		29		
	Appearance No significant damage									
	Capacitance change	9 9								
	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 after							uced back to 20°C after soldering has been		
	performed under the recommended soldering conditions.									
	Appearance	o significant damage								
	Capacitance value Within the specified tolerance range									
	D.F. (tan δ)	≦The in	itial specif	ied value						
	ESR	≦The in	itial specif	ied 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 105°C.

◆DIMENSIONS [mm]



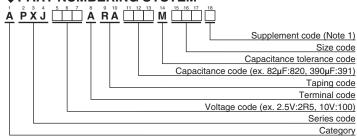
Size Code	φD	L	Α	В	С	W	Р
F61	6.3	5.8	6.6	6.6	7.2	0.5 to 0.8	1.9
F80	6.3	7.7	6.6	6.6	7.2	0.5 to 0.8	1.9
H70	8	6.7	8.3	8.3	9.0	0.7 to 1.1	3.1







◆PART NUMBERING SYSTEM



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

(Note1) :PXJ series, $16V270\,\mu\,\text{F}$ (ESR $10m\,\Omega$ max.) has supplement code "J", and (ESR $8m\,\Omega$ max.) has supplement code "X". Terminal and terminal plating are the same as all other in PXJ series.

♦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.
	820	F61	1,020	10	4,900	APXJ2R5ARA821MF61G
2.5	820	F80	1,020	7	5,000	APXJ2R5ARA821MF80G
	1,200	H70	1,500	10	4,500	APXJ2R5ARA122MH70G
	390	F61	1,220	10	4,900	APXJ6R3ARA391MF61G
6.3	560	F80	1,760	8	5,000	APXJ6R3ARA561MF80G
	680	H70	2,140	10	4,500	APXJ6R3ARA681MH70G
	270	F61	1,350	15	4,000	APXJ100ARA271MF61G
10	390	F80	1,950	13	4,460	APXJ100ARA391MF80G
	470	H70	2,350	15	4,000	APXJ100ARA471MH70G
	220	F61	704	20	3,500	APXJ160ARA221MF61G
	270	F80	864	8	5,800	APXJ160ARA271MF80X
16	270	F80	864	10	5,080	APXJ160ARA271MF80J
	270	F80	864	13	4,460	APXJ160ARA271MF80G
	390	H70	1,240	25	3,600	APXJ160ARA391MH70G
	150	F61	600	23	3,300	APXJ200ARA151MF61G
20	150	F80	600	18	3,790	APXJ200ARA151MF80G
	220	H70	880	28	3,300	APXJ200ARA221MH70G
	56	F61	280	28	3,000	APXJ250ARA560MF61G
25	82	F80	410	28	3,040	APXJ250ARA820MF80G
	120	H70	600	38	3,200	APXJ250ARA121MH70G

New products are indicated in red text.

◆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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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

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