



- Super low ESR, high ripple current capability
- Case size : ϕ 5×5.8L to ϕ 10×12.2L
- Solvent resistant type (see PRECAUTIONS AND GUIDELINES)
- RoHS2 Compliant
- Halogen Free



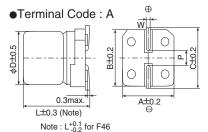


SPECIFICATIONS

Items	Characteristics						
Category Temperature Range	-55 to +105℃						
Rated Voltage Range	16 to 25V _{dc}						
Capacitance Tolerance	±20% (M)		(at 20°C, 120Hz)				
Leakage Current	` '	shown in STANDARD RATINGS.	(4:200) 12012				
*Note		Shall not exceed values shown in STANDARD RATINGS. (at 20°C after 2 minutes)					
Dissipation Factor (tan δ)	0.12 max.	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 the rated voltage is applied for 15,000 hours (F46 : 3,000 hours) at 105°C.						
	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					
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 (F46: 500 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 105°C for 30 seconds through a protective resistor(R=1kΩ) and discharge for 5 minutes 30 seconds.						
	Rated voltage (Vdc)	16 20 25					
	Surge voltage (Vdc)	18 23 29					
	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					
Soldering Heat		tions shall be satisfied when the soldentions shall be satisfied when the soldering conditions.	er temperature is reduced back to 20°C after soldering has been				
	Appearance	No significant damage					
	Capacitance value	Within the specified tolerance range					
	D.F. (tan δ)	≦The initial specified value					
	ESR	≦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 105°C.

◆DIMENSIONS [mm]



L±0.5 for JC0

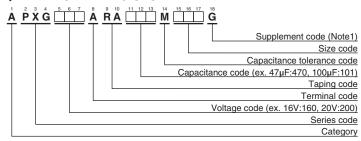
Size Code	φD	L	Α	В	С	W	Р
E61	5	5.8	5.3	5.3	5.9	0.5 to 0.8	1.4
F46	6.3	4.5	6.6	6.6	7.2	0.5 to 0.8	1.9
F61	6.3	5.8	6.6	6.6	7.2	0.5 to 0.8	1.9
F80	6.3	7.7	6.6	6.6	7.2	0.5 to 0.8	1.9
H70	8	6.7	8.3	8.3	9.0	0.7 to 1.1	3.1
J80	10	7.7	10.3	10.3	11.0	0.7 to 1.1	4.5
JC0	10	12.2	10.3	10.3	11.0	0.7 to 1.1	4.5







◆PART NUMBERING SYSTEM



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

(Note1) : PXG Series $16V68\mu F$ (ESR $20m\Omega$ max.) and $16V82\mu F$ (ESR $20m\Omega$ max.) have supplement code "J". Terminal and terminal plating are the same as all other in PXG 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.
	68	F46	544	20	3,200	APXG160ARA680MF46J
	68	F46	544	40	2,450	APXG160ARA680MF46G
	82	F46	656	20	3,200	APXG160ARA820MF46J
	82	F46	656	40	2,450	APXG160ARA820MF46G
	100	E61	320	27	3,000	APXG160ARA101ME61G
16	180	F61	576	22	3,300	APXG160ARA181MF61G
16	220	F80	704	22	3,300	APXG160ARA221MF80G
	270	H70	864	22	3,300	APXG160ARA271MH70G
	330	H70	1,050	22	3,300	APXG160ARA331MH70G
	560	J80	1,790	20	3,800	APXG160ARA561MJ80G
	820	JC0	2,620	12	5,400	APXG160ARA821MJC0G
	1,000	JC0	3,200	12	5,400	APXG160ARA102MJC0G
	47	E61	188	30	2,800	APXG200ARA470ME61G
	47	F46	470	42	2,400	APXG200ARA470MF46G
	56	E61	224	30	2,800	APXG200ARA560ME61G
20	120	F61	480	25	3,200	APXG200ARA121MF61G
	150	F80	600	25	3,200	APXG200ARA151MF80G
	180	H70	720	25	3,200	APXG200ARA181MH70G
	390	J80	1,560	22	3,650	APXG200ARA391MJ80G
	22	E61	110	40	2,450	APXG250ARA220ME61G
	22	F46	275	45	2,350	APXG250ARA220MF46G
	27	E61	135	40	2,450	APXG250ARA270ME61G
	27	F46	337	45	2,350	APXG250ARA270MF46G
	39	F61	195	30	2,800	APXG250ARA390MF61G
	47	F61	235	30	2,800	APXG250ARA470MF61G
0.5	56	F61	280	30	2,800	APXG250ARA560MF61G
25	56	F80	280	28	2,800	APXG250ARA560MF80G
	68	F61	340	30	2,800	APXG250ARA680MF61G
	68	H70	340	28	3,000	APXG250ARA680MH70G
	120	F80	600	28	2,800	APXG250ARA121MF80G
	150	H70	750	28	3,000	APXG250ARA151MH70G
	150	J80	750	25	3,400	APXG250ARA151MJ80G
	180	J80	900	25	3,400	APXG250ARA181MJ80G

New products are indicated in red text.

PRATED 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



- 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.
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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

Product specifications in this catalog are subject to change without notice. Request our product specifications before purchase and/or use. Please use our products based on the information contained in this catalog and product specifications.

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