NPCAP™-PXY Series

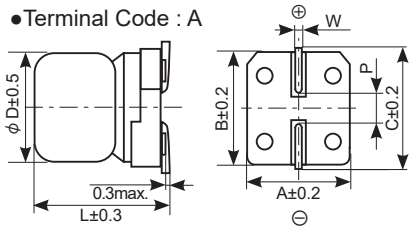
- Super low ESR, impedance and high heat resistance have been obtained by using conductive polymer as electrolyte.
- Guaranteed LC after reflow
- For automobile modules and other high temperature applications
- Endurance : 125℃ 3,000 hours
- Rated voltage range : 6.3 to 16Vdc, Capacitance range : 56 to 270μF
- 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

Items	Characteristics			
Category Temperature Range	-55 to +125℃			
Rated Voltage Range	6.3 to 16Vdc			
Capacitance Tolerance	±20%（M） (at 20℃ , 120Hz)			
Leakage Current	Shall not exceed values shown in STANDARD RATINGS. (at 20℃ after 2 minutes)			
Dissipation Factor (tan δ)	0.12 max. (at 20℃ , 120Hz)			
Low Temperature Characteristics (Max. Impedance Ratio)	Z(-25℃) / Z(+20℃) ≦ 1.15 Z(-55℃) / Z(+20℃) ≦ 1.25 (at 100kHz)			
Endurance	The following specifications shall be satisfied when the capacitors are restored to 20℃ after the rated voltage is applied for 3,000 hours at 125℃ .			
	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℃ after subjecting them to the DC rated voltage at at 60℃ ,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℃ for 30 seconds through a protective resistor(R=1kΩ)and discharge for 5 minutes 30 seconds.			
	Rated voltage (Vdc)	6.3	10	16
	Surge voltage (Vdc)	7.2	12	18
	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	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 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		

◆ DIMENSIONS ［mm］

●Terminal Code : A



Size Code	φD	L	A	B	C	W	P
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

◆ MARKING

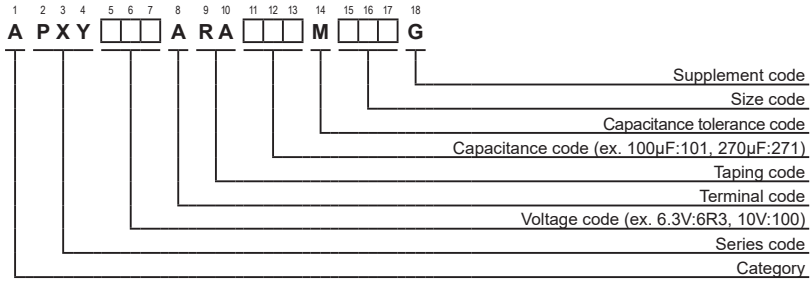
EX) 6.3V220μF



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◆ PART NUMBERING SYSTEM



◆ STANDARD RATINGS

WV (V_{dc})	Cap (μF)	Size code	Leakage current *2 (μA max./ after 2min.)	ESR (mΩ max./20℃, 100k to 300kHz)	Rated ripple current (mArms/ 100kHz)		Part No.
					-55℃≦ Tx ≦ 105℃ *1	105℃ <Tx ≦ 125℃ *1	
6.3	150	E61	189	23	2,800	1,400	APXY6R3ARA151ME61G
	220	F61	277	18	3,000	1,500	APXY6R3ARA221MF61G
	270	F61	340	16	3,160	1,550	APXY6R3ARA271MF61G
10	120	E61	240	25	2,800	1,400	APXY100ARA121ME61G
	220	F61	440	20	3,000	1,500	APXY100ARA221MF61G
16	56	E61	179	32	2,500	1,250	APXY160ARA560ME61G
	100	F61	320	24	2,800	1,400	APXY160ARA101MF61G

*1 TX : Ambient Temperature(℃)

*2 After soldering has been performed under the recommended soldering conditions.

◆ RATED RIPPLE CURRENT MULTIPLIERS

●Frequency Multipliers

Frequency (Hz)	120	1k	10k	50k	100k to 300k
SMD type	0.05	0.30	0.55	0.70	1.00

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