NPCAP™-PXG Series

- Super low ESR, high ripple current capability
- Rated voltage range : 16 to 25Vdc, Capacitance : 10 to 180μF
- Case size : φ 5×4.5L to φ 6.3×5.8L
- **RoHS Compliant**
- Halogen Free

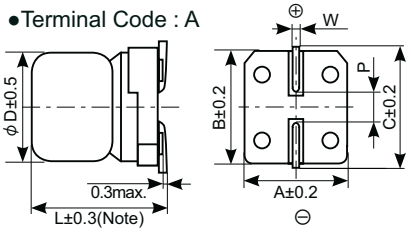
◆ SPECIFICATIONS

Items	Characteristics
Category Temperature Range	-55 to +105℃
Rated Voltage Range	16 to 25Vdc
Capacitance Tolerance	±20% (M) (at 20℃ , 120Hz)
Surge Voltage	Rated voltage×1.15 (at 105℃)
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 2,000 hours (E46, F46 : 1,000 hours) at 105℃ .
	Appearance: No significant damage
	Capacitance change: ≦ ±20% of the initial value
	DF (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 60℃ , 90 to 95% RH for 1,000 hours(E46, F46 : 500 hours) .
	Appearance: No significant damage
	Capacitance change: ≦ ±20% of the initial value
	DF (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℃ for 30 seconds through a protective resistor(R=1kΩ)and discharge for 5 minutes 30 seconds.
	Appearance: No significant damage
	Capacitance change: ≦ ±20% of the initial value
	DF (tan δ): ≦ 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 105℃)

*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℃ .

◆ DIMENSIONS [mm]

●Terminal Code : A



Note : L+0.1 / -0.2 for E46, F46

Size Code	φD	L	A	B	C	W	P
E46	5	4.5	5.3	5.3	5.9	0.5 to 0.8	1.4
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

◆ MARKING

EX) 25V47μF

◆ PART NUMBERING SYSTEM

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
A	P	X	G				A	R	A				M				G

- Supplement code
- Size code
- Capacitance tolerance code
- Capacitance code (ex. 47μF:470, 100μF:101)
- Taping code
- Terminal code
- Voltage code (ex. 16V:160, 20V:200)
- Series code
- Category

Please contact us for mass production schedule.
Specifications in this bulletin are subject to change without notice.

NPCAP™-PXG Series

◆ STANDARD RATINGS

WV (Vdc)	Cap (μF)	Size code	Leakage current (μA max/ after 2min.)	ESR (mΩmax/20℃ , 100k to 300kHz)	Rated ripple current (mArms/ 105℃ , 100kHz)	Part No.
16	39	E46	312	50	1,860	APXG160ARA390ME46G
	68	F46	544	40	2,450	APXG160ARA680MF46G
	100	E61	320	27	3,000	APXG160ARA101ME61G
	180	F61	576	22	3,300	APXG160ARA181MF61G
20	27	E46	270	55	1,770	APXG200ARA270ME46G
	47	E61	188	30	2,800	APXG200ARA470ME61G
	47	F46	470	42	2,400	APXG200ARA470MF46G
	56	E61	224	30	2,800	APXG200ARA560ME61G
	120	F61	480	25	3,200	APXG200ARA121MF61G
25	10	E46	125	60	1,700	APXG250ARA100ME46G
	22	E61	110	40	2,450	APXG250ARA220ME61G
	22	F46	275	45	2,350	APXG250ARA220MF46G
	27	E61	135	40	2,450	APXG250ARA270ME61G
	39	F61	195	30	2,800	APXG250ARA390MF61G
	47	F61	235	30	2,800	APXG250ARA470MF61G

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