RoHS

Metalized Polypropylene Film Capacitor

C7NP SERIES

HIGH PULSE CAPACITOR

OKAYA

Features

- High insulation resistance (more than 50,000MΩ at less than 0.33μF).
- Low dissipation factor (less than 0.001 at 1kHz).
- High surge withstand voltage and high current withstand capability.

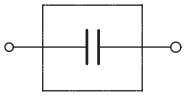
type: a

type: b

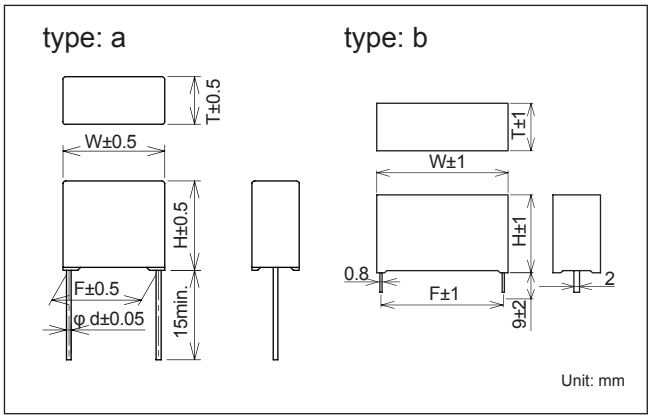
Applications

- High frequent circuit, Resonant circuit in high voltage, Snubber circuit, Protection of semiconductors, Ultra-high impedance circuit and Long time constant circuit.

- *Circuit*



- *Dimensions*



- Model numbering system

C	7	N	P	2	E	1	0	4	K

Series name | Rated Voltage | Capacitance | Tolerance of Capacitance

2E= 250VDC
2G= 400VDC
2J = 630VDC
3B=1,250VDC
3C=1,600VDC

The first two digits stands for capacitance (pF). The third digit is for the number of continuing zero.

J	±5%
K	±10%

Electrical Specifications

Rated Voltage	Model Number	Capacitance μF	Dimensions (mm) W	H	T	F	d	Type	Dissipation factor	Test voltage	Insulation resistance
2E (250VDC)	C7NP2E104☐	0.1	17.0	13.5	6.5	15.0	0.8	a	0.001max. (at 1kHz)	Rated Voltage x 1.75VDC (2~5sec)	C≤0.33μF 50,000MΩmin. (at 20°C, 100VDC) C>0.33μF 20,000Ω•Fmin. (at 20°C, 100VDC)
	C7NP2E154☐	0.15	17.0	13.5	6.5	15.0	0.8	a			
	C7NP2E224☐	0.22	17.0	15.0	8.0	15.0	0.8	a			
	C7NP2E334☐	0.33	25.0	16.0	6.5	22.5	0.8	a			
	C7NP2E474☐	0.47	25.0	17.5	8.0	22.5	0.8	a			
	C7NP2E684☐	0.68	25.0	19.5	10.0	22.5	0.8	a			
	C7NP2E105☐	1.0	30.0	22.0	11.0	27.5	0.8	a			
	C7NP2E155☐	1.5	30.0	24.5	13.5	27.5	0.8	a			
	C7NP2E225☐	2.2	30.5	28.0	16.0	27.5	1.0	a			
	C7NP2E335☐	3.3	41.0	28.0	15.5	37.5	1.0	a			
	C7NP2E475☐	4.7	41.0	28.0	15.5	37.5	1.0	a			
	C7NP2E685☐	6.8	41.0	32.5	17.5	37.5	1.0	a			
	C7NP2E106☐	10.0	59.5	35.0	21.5	55.0	-	b			
	C7NP2E156☐	15.0	59.5	43.5	30.5	55.0	-	b			
	C7NP2E226☐	22.0	59.5	43.5	30.5	55.0	-	b			
2G (400VDC)	C7NP2G473☐	0.047	17.0	13.5	6.5	15.0	0.8	a			
	C7NP2G683☐	0.068	17.0	13.5	6.5	15.0	0.8	a			
	C7NP2G104☐	0.1	17.0	15.0	8.0	15.0	0.8	a			
	C7NP2G154☐	0.15	25.0	16.0	6.5	22.5	0.8	a			
	C7NP2G224☐	0.22	25.0	17.5	8.0	22.5	0.8	a			
	C7NP2G334☐	0.33	25.0	19.5	10.0	22.5	0.8	a			
	C7NP2G474☐	0.47	30.0	22.0	11.0	27.5	0.8	a			
	C7NP2G684☐	0.68	30.0	24.5	13.5	27.5	0.8	a			
	C7NP2G105☐	1.0	30.0	24.5	13.5	27.5	0.8	a			
	C7NP2G155☐	1.5	41.0	28.0	15.5	37.5	1.0	a			
	C7NP2G225☐	2.2	41.0	28.0	17.5	37.5	1.0	a			
	C7NP2G335☐	3.3	49.5	33.0	20.5	45.0	-	b			
	C7NP2G475☐	4.7	59.5	35.5	21.5	55.0	-	b			
	C7NP2G685☐	6.8	59.5	43.5	30.5	55.0	-	b			
	C7NP2G106☐	10.0	59.5	43.5	30.5	55.0	-	b			

It is possible to use from more than 85°C to 105°C by derating of rated voltage.

Operating Temperature: -40~+85°C

☐:J=Tolerance of Capacitance ±5%, K=Tolerance of Capacitance ±10%

Electrical Specifications

Rated Voltage	Model Number	Capacitance μF	Dimensions (mm)						Dissipation factor	Test voltage	Insulation resistance
			W	H	T	F	d	Type			
2J (630VDC)	C7NP2J103☐	0.01	17.0	13.5	6.5	15.0	0.8	a	0.001max. (at 1kHz)	Rated Voltage x 1.75VDC (2~5sec)	C≤0.33μF 50,000MΩmin. (at 20°C, 100VDC) C>0.33μF 20,000Ω•Fmin. (at 20°C, 100VDC)
	C7NP2J153☐	0.015	17.0	13.5	6.5	15.0	0.8	a			
	C7NP2J223☐	0.022	17.0	13.5	6.5	15.0	0.8	a			
	C7NP2J333☐	0.033	17.0	13.5	6.5	15.0	0.8	a			
	C7NP2J473☐	0.047	17.0	13.5	6.5	15.0	0.8	a			
	C7NP2J683☐	0.068	17.0	15.0	8.0	15.0	0.8	a			
	C7NP2J104☐	0.1	25.0	16.0	6.5	22.5	0.8	a			
	C7NP2J154☐	0.15	25.0	17.5	8.0	22.5	0.8	a			
	C7NP2J224☐	0.22	25.0	19.5	10.0	22.5	0.8	a			
	C7NP2J334☐	0.33	30.0	22.0	11.0	27.5	0.8	a			
	C7NP2J474☐	0.47	30.0	22.0	11.0	27.5	0.8	a			
	C7NP2J684☐	0.68	30.0	24.5	13.5	27.5	0.8	a			
	C7NP2J105☐	1.0	30.5	28.0	16.0	27.5	1.0	a			
	C7NP2J155☐	1.5	41.0	28.0	15.5	37.5	1.0	a			
	C7NP2J225☐	2.2	49.5	33.0	20.5	45.0	-	b			
	C7NP2J335☐	3.3	59.5	35.5	21.5	55.0	-	b			
	C7NP2J475☐	4.7	59.5	43.5	30.5	55.0	-	b			
	C7NP2J685☐	6.8	59.5	43.5	30.5	55.0	-	b			
3B (1250VDC)	C7NP3B472☐	0.0047	17.0	13.5	6.5	15.0	0.8	a			
	C7NP3B682☐	0.0068	17.0	15.0	8.0	15.0	0.8	a			
	C7NP3B103☐	0.01	25.0	16.0	6.5	22.5	0.8	a			
	C7NP3B153☐	0.015	25.0	16.0	6.5	22.5	0.8	a			
	C7NP3B223☐	0.022	25.0	17.5	8.0	22.5	0.8	a			
	C7NP3B333☐	0.033	25.0	19.5	10.0	22.5	0.8	a			
	C7NP3B473☐	0.047	25.0	19.5	10.0	22.5	0.8	a			
	C7NP3B683☐	0.068	30.0	22.0	11.0	27.5	0.8	a			
	C7NP3B104☐	0.1	30.0	24.5	13.5	27.5	0.8	a			
	C7NP3B154☐	0.15	30.5	28.0	16.0	27.5	1.0	a			
	C7NP3B224☐	0.22	41.0	28.0	15.5	37.5	1.0	a			
	C7NP3B334☐	0.33	41.0	28.0	15.5	37.5	1.0	a			
	C7NP3B474☐	0.47	41.0	32.5	17.5	37.5	1.0	a			
	C7NP3B684☐	0.68	59.5	35.5	21.5	55.0	-	b			
	C7NP3B105☐	1.0	59.5	43.5	30.5	55.0	-	b			
3C (1600VDC)	C7NP3C102☐	0.0001	17.0	13.5	6.5	15.0	0.8	a			
	C7NP3C152☐	0.0015	17.0	13.5	6.5	15.0	0.8	a			
	C7NP3C222☐	0.0022	17.0	15.0	8.0	15.0	0.8	a			
	C7NP3C332☐	0.0033	25.0	16.0	6.5	22.5	0.8	a			
	C7NP3C472☐	0.0047	25.0	16.0	6.5	22.5	0.8	a			
	C7NP3C682☐	0.0068	25.0	17.5	8.0	22.5	0.8	a			
	C7NP3C103☐	0.01	25.0	17.5	8.0	22.5	0.8	a			
	C7NP3C153☐	0.015	25.0	19.5	10.0	22.5	0.8	a			
	C7NP3C223☐	0.022	30.0	22.5	11.0	27.5	0.8	a			
	C7NP3C333☐	0.033	30.0	24.5	13.5	27.5	0.8	a			
	C7NP3C473☐	0.047	30.0	24.5	13.5	27.5	0.8	a			

It is possible to use from more than 85°C to 105°C by derating of rated voltage.
Operating Temperature: -40~+85°C
☐:J=Tolerance of Capacitance ±5%, K=Tolerance of Capacitance ±10%

● *Permissible current data (r.m.s. value)*