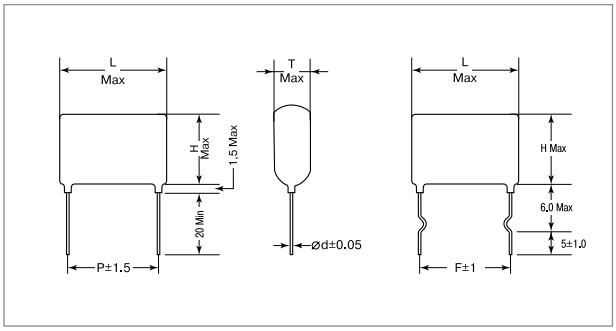
NPP (Film-Foil Polypropylene Capacitor)

Features

- NPP type capacitors are wound two polypropylene films and two aluminum foils for extended foil construction and lead wires are completely welded extended foil both sides, and then epoxy powder or dipped durez resin and satureated by micro Wax. These Capacitors have low dissipation factor, low capacitance change and high insulation resistance.



Electrical Characteristics

Rated Voltage	100 V, 200 V, 400 V, 630 V, 800 V
Capacitance Range	0.001 to 0.1 mfd
Capacitance Tolerance	±2 %, ±3 %, ±5 %, ±10 %
Tan δ	0.1 % max. (1 kHz)
Operating Temp. Range	-40□ to +85□
Test Voltage	Vr X 2.0
Insulation Resistance	30,000 MΩ mi

Explanation Of Part Number

NPP / Product Code, 100 / Voltage in DC, 102 / Normal Capacitance Code, J / Tolerance ±5 %

(mm)

Capacitance(□)	Code	100(50) VDC				200/250 VDC				400 VDC				630(50) VDC				800 VDC			
		L	H	T	P	L	H	T	P	L	H	T	P	L	H	T	P	L	H	T	P
0.001	102	11.0	10.0	5.5	7.5	15.0	12.0	5.5	10.0	15.0	12.0	5.5	10.0	15.0	12.0	5.5	10.0	15.0	12.0	5.5	10.0
0.0012	122	11.0	10.0	5.5	7.5	15.0	12.0	5.5	10.0	15.0	12.0	5.5	10.0	15.0	12.0	5.5	10.0	15.0	12.5	5.5	10.0
0.0015	152	11.0	10.0	5.5	7.5	15.0	12.0	5.5	10.0	15.0	12.0	5.5	10.0	15.0	12.0	5.5	10.0	15.0	13.0	6.0	10.0
0.0018	182	11.0	10.0	5.5	7.5	15.0	12.0	6.0	10.0	15.0	12.0	6.0	10.0	15.0	12.0	5.5	10.0	15.0	13.0	6.5	10.0
0.0022	222	11.0	10.0	5.5	7.5	15.0	12.0	6.0	10.0	15.0	12.0	6.0	10.0	15.0	12.0	5.5	10.0	20.0	12.5	6.0	16.5
0.0027	272	11.0	10.0	5.5	7.5	15.0	12.0	6.5	10.0	15.0	12.0	6.5	10.0	15.0	12.5	6.5	10.0	20.0	13.0	6.5	16.5
0.0033	332	11.0	10.0	5.5	7.5	15.0	12.0	6.5	10.0	15.0	12.0	6.5	10.0	20.0	13.0	6.5	16.5	20.0	13.5	6.5	16.5
0.0039	392	11.0	10.5	5.5	7.5	15.0	12.0	6.5	10.0	15.0	12.0	6.5	10.0	20.0	13.0	6.5	16.5	20.0	14.0	7.0	16.5
0.0047	472	11.0	10.5	5.5	7.5	15.0	12.0	6.5	10.0	15.0	12.0	6.5	10.0	20.0	13.0	6.5	16.5	20.0	14.5	7.0	16.5
0.0056	562	11.0	10.5	5.5	7.5	15.0	12.0	6.5	10.0	15.0	12.0	6.5	10.0	20.0	13.0	6.5	16.5	20.0	15.0	7.0	16.5
0.0068	682	11.0	10.5	5.5	7.5	15.0	12.0	6.5	10.0	15.0	12.0	6.5	10.0	20.0	13.0	6.5	16.5	20.0	15.5	7.5	16.5

Capaci-tance (□)	Code	100(50) VDC				200/250 VDC				400 VDC				630(50) VDC				800 VDC			
		L	H	T	P	L	H	T	P	L	H	T	P	L	H	T	P	L	H	T	P
0.0082	882	11.0	10.5	5.5	7.5	15.0	12.5	6.5	10.0	15.0	12.5	6.5	16.5	20.0	13.5	7.0	16.5	20.0	16.0	8.0	16.5
0.01	103	11.0	10.5	5.5	7.5	15.0	12.5	6.5	10.0	20.0	13.0	6.5	16.5	20.0	14.0	7.5	16.5	20.0	17.0	8.5	16.5
0.012	123	11.0	10.5	5.5	7.5	15.0	12.5	6.5	10.0	20.0	13.0	6.5	16.5	20.0	15.0	8.0	16.5	20.0	17.5	9.0	16.5
0.015	153	11.0	10.5	5.5	7.5	15.0	12.5	6.5	10.0	20.0	13.0	6.5	16.5	20.0	15.5	9.0	16.5	31.0	16.0	8.0	26.5
0.018	183	15.0	11.0	5.5	10.0	20.0	12.5	6.5	16.5	20.0	13.5	6.5	16.5	20.0	16.0	9.5	16.5	31.0	17.0	8.5	26.5
0.022	223	15.0	11.5	5.5	10.0	20.0	12.5	6.5	16.5	20.0	14.0	7.0	16.5	20.0	17.0	10.5	16.5	31.0	17.5	9.0	26.5
0.027	273	15.0	12.0	6.5	10.0	20.0	13.0	6.5	16.5	20.0	14.5	7.5	16.5	31.0	16.5	8.0	26.5	31.0	18.5	0.0	26.5
0.033	333	15.0	13.0	7.0	10.0	20.0	13.5	7.0	16.5	20.0	15.0	8.0	16.5	31.0	17.0	9.0	26.5	31.0	19.0	11.0	26.5
0.039	393	20.0	12.5	6.0	16.5	20.0	14.0	7.5	16.5	20.0	15.5	8.5	16.5	31.0	18.0	9.5	26.5	31.0	20.0	11.5	26.5
0.047	473	20.0	13.0	6.0	16.5	20.0	14.5	8.0	16.5	20.0	16.0	9.5	16.5	31.0	18.5	10.0	26.5	31.0	21.0	12.5	26.5
0.056	563	20.0	13.5	6.5	16.5	20.0	15.0	8.5	16.5	20.0	17.0	10.0	16.5	31.0	19.5	11.0	26.5	31.0	22.0	13.5	26.5
0.068	683	20.0	14.0	7.0	16.5	20.0	16.0	9.0	16.5	20.0	17.5	11.0	16.5	31.0	20.0	11.5	26.5	31.0	23.5	15.0	26.5
0.082	823	20.0	14.0	7.5	16.5	20.0	16.5	10.0	16.5	31.0	18.5	12.0	26.5	31.0	21.0	12.5	26.5	31.0	25.0	16.5	26.5
0.1	104	20.0	15.0	8.0	16.5	20.0	17.5	10.5	16.5	31.0	18.5	10.0	26.5	31.0	22.0	14.0	26.5	31.0	26.5	18.0	26.5
0.12	124	20.0	15.5	8.5	16.5	20.0	18.5	11.5	16.5	31.0	19.5	11.0	26.5	31.0	24.0	15.0	26.5				
0.15	154	20.0	16.5	9.5	16.5	31.0	18.0	9.5	26.5	31.0	20.5	12.0	26.5	31.0	25.5	17.0	26.5				
0.18	184	20.0	17.0	10.5	16.5	31.0	18.5	10.0	26.5	31.0	21.5	13.0	26.5	31.0	27.0	18.5	26.5				
0.22	224	20.0	18.0	11.5	16.5	31.0	19.5	11.0	26.5	31.0	23.5	14.5	26.5	31.0	29.0	20.0	26.5				
0.27	274	31.0	17.5	9.0	26.5	31.0	20.5	12.0	26.5	31.0	24.5	16.0	26.5								
0.33	334	31.0	18. 5	10.0	26.5	31.0	21.5	13.5	26.5	31.0	26.5	17.5	26.5								
0.39	394	31.0	19.0	11.0	26.5	31.0	23.0	14.5	26.5	31.0	28.0	19.0	26.5								
0.47	474	31.0	20.0	12.0	26.5	31.0	24.5	15.5	26.5												
0.56	564	31.0	21.0	12.5	26.5	31.0	26.0	17.0	26.5												
0.68	684	31.0	22.0	13.5	26.5	31.0	27.5	18.5	26.5												
0.82	824	31.0	23.5	15.0	26.5																
1.0	105	31.0	26.0	16.5	26.5																

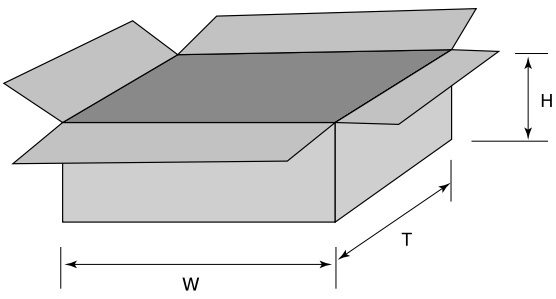
Packing Standard Spec.

(Q'ty And Weight Per Inner Carton)

CAP (☐)	100 VDC		200 / 250 VDC		400 VDC		630 VDC	
	Amount	KG	Amount	KG	Amount	KG	Amount	KG
0.001	5,000	5.5	5,000	4	5,000	3.8	5,000	4
0.0015	5,000	5.5	5,000	4	5,000	3.8	5,000	4
0.0022	5,000	5.5	5,000	4	5,000	3.8	5,000	4
0.0033	5,000	5.5	5,000	4	5,000	3.8	5,000	4
0.0047	5,000	5.5	5,000	4	5,000	3.8	5,000	4
0.0068	5,000	5.5	5,000	4	5,000	3.8	3,000	5
0.01	5,000	5.5	5,000	4.1	5,000	3.8	3,000	5
0.015	5,000	5.5	3,000	4.3	3,000	4	3,000	5.5
0.022	5,000	5.7	3,000	4.5	3,000	4.8	2,000	6
0.033	3,000	5.7	3,000	4.5	2,000	5	2,000	6.5
0.047	3,000	5.7	3,000	5.7	2,000	5.2	1,000	3
0.068	3,000	5.8	2,000	5.8	2,000	5.4	1,000	4
0.1	3,000	6.5	2,000	6.8	1,000	5	1,000	6
0.15	3,000	6.5	1,000	7	1,000	5	-	-
0.22	3,000	6.5	1,000	7.9	1,000	5.5	-	-
0.33	2,000	6	1,000	8	-	-	-	-
0.47	2,000	6	1,000	12	-	-	-	-

This standard specifies film capacitors for packing standard

[BOX TYPE]



Items	Size W(mm) X T(mm) X H(mm)
INNER BOX	280 X 175 X 100
	350 X 275 X 200
OUT BOX	580 X 370 X 220