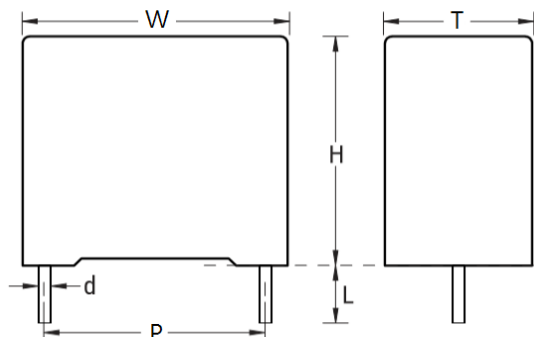


SMPC series

■ Outline Drawing



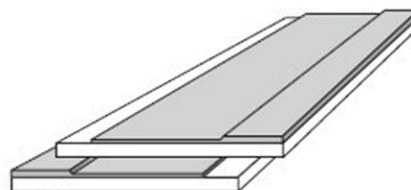
■ Typical Applications

Widely used in high frequency, DC, AC and pulse circuits
Suitable for the situation where applies high frequency
and high current pulse.

■ Features

Metalized polypropylene film,
non-inductive wound construction
Low loss at high frequency
Small inherent temperature rise
Plastic case (UL94V-0), Epoxy resin sealing.

■ Construction



■ Specifications

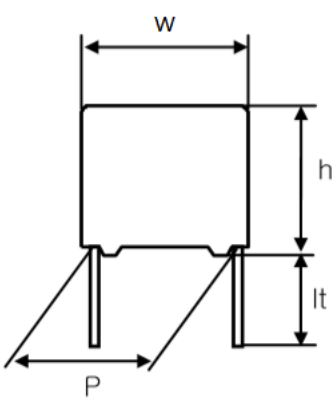
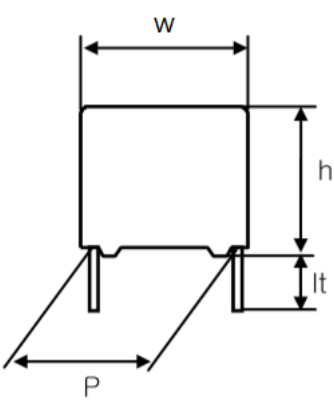
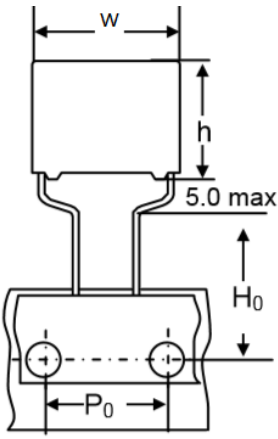
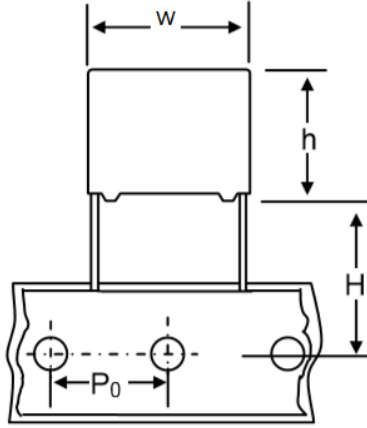
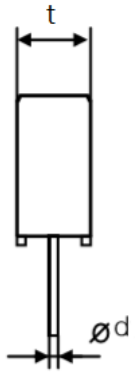
Reference Standard	GB/T 10190 (IEC 60384-16)						
Climatic Category	55/105/56						
Rated Temperature	85°C						
Operating Temperature Range	-40°C ~ +105°C (+85°C to +105°C: decreasing factor 1.25% per °C for U _R)						
Capacitance Range	0.001μF ~ 15μF						
Rated (DC) Voltage	160V	250V	400V	630V	1000V	1600V	2000V
Rated (AC) Voltage	90V	160V	220V	250V	400V	600V	700V
Capacitance Tolerance	±5%(J) 、 ±10%(K)						
Voltage Proof	1.5U _R (60s)						
Dissipation Factor	≤ 0.1% (20°C, 1kHz)						
Insulation Resistance	UR	≤	C _R ≤ 0.33uF IR ≥ 15,000MΩ				
	100V		C _R > 0.33uF IR ≥ 5,000S				

SMPC series

■ Product code system

SMPC	J	103	K	0630	D	B	10	15
Type	Internal use	Capacitance	Tolerance	Rated Voltage	Voltage	Lead forming	Lead Pitch	Lead Length
SMPC= Metallized Polypropylene Capacitor (Boxed)	--	103 =10000pF =10nF =0.01μF	J=±5% K=±10% M=±20%	0063=63V 0100=100V 0250=250V 0400=400V 0630=630V 1000=1000V	D=DC A=AC	Shown as Table I	08=7.5mm 10=10mm 15=15mm 23=22.5mm 28=27.5mm	04=3.5mm 15=15mm 23=23mm

■ Table I

Code	B (Straight 15mm)	K (Short)	U (Vertical Kink)
Lead Forming			
Code	T (Taping)	--	--
Lead Forming			--

SMPC series

■ Dimensions (mm)

160Vdc (90Vac)						
Cap. μF	W	H	T	P	d	Part number
0.027	7.2	7.5	3.5	5	0.5	SMPC_273+0160D*05**
0.033	7.2	7.5	3.5	5	0.5	SMPC_333+0160D*05**
0.039	7.2	7.5	3.5	5	0.5	SMPC_393+0160D*05**
0.047	7.2	9.5	4.5	5	0.5	SMPC_473+0160D*05**
0.056	7.2	9.5	4.5	5	0.5	SMPC_563+0160D*05**
0.068	7.2	9.5	4.5	5	0.5	SMPC_683+0160D*05**
0.082	7.2	10	5	5	0.5	SMPC_823+0160D*05**
0.10	7.2	10	5	5	0.5	SMPC_104+0160D*05**
0.12	7.2	11	6	5	0.5	SMPC_124+0160D*05**
0.15	7.2	11	6	5	0.5	SMPC_154+0160D*05**
0.068	10.5	9	4	7.5	0.6	SMPC_683+0160D*08**
0.082	10.5	9	4	7.5	0.6	SMPC_823+0160D*08**
0.10	10.5	11	5	7.5	0.6	SMPC_104+0160D*08**
0.12	10.5	11	5	7.5	0.6	SMPC_124+0160D*08**
0.15	10.5	12	6	7.5	0.6	SMPC_154+0160D*08**
0.18	10.5	12	6	7.5	0.6	SMPC_184+0160D*08**
0.082	13	9	4	10	0.6	SMPC_823+0160D*10**
0.10	13	9	4	10	0.6	SMPC_104+0160D*10**
0.12	13	11	5	10	0.6	SMPC_124+0160D*10**
0.15	13	11	5	10	0.6	SMPC_154+0160D*10**
0.18	13	11	5	10	0.6	SMPC_184+0160D*10**
0.22	13	12	6	10	0.6	SMPC_224+0160D*10**
0.27	13	12	6	10	0.6	SMPC_274+0160D*10**
0.18	18	11	5	15	0.8	SMPC_184+0160D*15**
0.22	18	11	5	15	0.8	SMPC_224+0160D*15**
0.27	18	11	5	15	0.8	SMPC_274+0160D*15**
0.33	18	11	5	15	0.8	SMPC_334+0160D*15**
0.39	18	12	6	15	0.8	SMPC_394+0160D*15**
0.47	18	12	6	15	0.8	SMPC_474+0160D*15**
0.56	18	13.5	7.5	15	0.8	SMPC_564+0160D*15**
0.68	18	13.5	7.5	15	0.8	SMPC_684+0160D*15**

160Vdc (90Vac)						
Cap. μF	W	H	T	P	d	Part number
0.82	18	14.5	8.5	15	0.8	SMPC_824+0160D*15**
1.0	18	15.5	9.5	15	0.8	SMPC_105+0160D*15**
1.2	18	15.5	9.5	15	0.8	SMPC_125+0160D*15**
1.5	18	19	11	15	0.8	SMPC_155+0160D*15**
1.8	18	19	11	15	0.8	SMPC_185+0160D*15**
0.47	25.5	15	6	22.5	0.8	SMPC_474+0160D*23**
0.56	25.5	15	6	22.5	0.8	SMPC_564+0160D*23**
0.68	25.5	15	6	22.5	0.8	SMPC_684+0160D*23**
0.82	25.5	16	7	22.5	0.8	SMPC_824+0160D*23**
1.0	25.5	16	7	22.5	0.8	SMPC_105+0160D*23**
1.2	25.5	17	8.5	22.5	0.8	SMPC_125+0160D*23**
1.5	25.5	17	8.5	22.5	0.8	SMPC_155+0160D*23**
1.8	25.5	18.5	10	22.5	0.8	SMPC_185+0160D*23**
2.2	25.5	20	11	22.5	0.8	SMPC_225+0160D*23**
2.7	25.5	22	12	22.5	0.8	SMPC_275+0160D*23**
3.3	25.5	22	12	22.5	0.8	SMPC_335+0160D*23**
1.0	25.5	18	9	22.5	0.8	SMPC_105+0160D*23**
1.2	25.5	18	9	22.5	0.8	SMPC_125+0160D*23**
1.5	25.5	18	9	22.5	0.8	SMPC_155+0160D*23**
1.8	25.5	18	9	22.5	0.8	SMPC_185+0160D*23**
2.2	25.5	18	9	22.5	0.8	SMPC_225+0160D*23**
2.7	25.5	20	11	22.5	0.8	SMPC_275+0160D*23**
3.3	25.5	20	11	22.5	0.8	SMPC_335+0160D*23**
3.9	32	22	13	27.5	0.8	SMPC_395+0160D*28**
4.7	32	28	14	27.5	0.8	SMPC_475+0160D*28**
5.6	32	24.5	15	27.5	0.8	SMPC_565+0160D*28**
6.8	32	33	18	27.5	0.8	SMPC_685+0160D*28**
8.2	32	33	18	27.5	0.8	SMPC_825+0160D*28**
10	32	33	18	27.5	0.8	SMPC_106+0160D*28**
12	32	37	22	27.5	0.8	SMPC_126+0160D*28**
15	32	37	22	27.5	0.8	SMPC_156+0160D*28**

SMPC series

■ Dimensions (mm)

250Vdc (160Vac)						
Cap. μF	W	H	T	P	d	Part number
0.012	7.2	7.5	3.5	5	0.5	SMPC_123+0250D*05**
0.015	7.2	7.5	3.5	5	0.5	SMPC_153+0250D*05**
0.022	7.2	7.5	3.5	5	0.5	SMPC_223+0250D*05**
0.027	7.2	7.5	3.5	5	0.5	SMPC_273+0250D*05**
0.033	7.2	7.5	3.5	5	0.5	SMPC_333+0250D*05**
0.047	7.2	9.5	4.5	5	0.5	SMPC_473+0250D*05**
0.068	7.2	10	5	5	0.5	SMPC_683+0250D*05**
0.082	7.2	10	5	5	0.5	SMPC_823+0250D*05**
0.10	7.2	11	6	5	0.5	SMPC_104+0250D*05**
0.12	7.2	11	6	5	0.5	SMPC_124+0250D*05**
0.027	10.5	9	4	7.5	0.6	SMPC_123+0250D*08**
0.033	10.5	9	4	7.5	0.6	SMPC_333+0250D*08**
0.047	10.5	9	4	7.5	0.6	SMPC_473+0250D*08**
0.068	10.5	9	4	7.5	0.6	SMPC_683+0250D*08**
0.082	10.5	11	5	7.5	0.6	SMPC_823+0250D*08**
0.10	10.5	11	5	7.5	0.6	SMPC_104+0250D*08**
0.12	10.5	11	5	7.5	0.6	SMPC_124+0250D*08**
0.15	10.5	12	6	7.5	0.6	SMPC_154+0250D*08**
0.18	10.5	12	6	7.5	0.6	SMPC_184+0250D*08**
0.033	13	9	4	10	0.6	SMPC_333+0250D*10**
0.047	13	9	4	10	0.6	SMPC_473+0250D*10**
0.068	13	9	4	10	0.6	SMPC_683+0250D*10**
0.082	13	9	4	10	0.6	SMPC_823+0250D*10**
0.10	13	11	5	10	0.6	SMPC_104+0250D*10**
0.12	13	11	5	10	0.6	SMPC_124+0250D*10**
0.15	13	11	5	10	0.6	SMPC_154+0250D*10**
0.18	13	12	6	10	0.6	SMPC_184+0250D*10**
0.22	13	12	6	10	0.6	SMPC_224+0250D*10**
0.10	18	11	5	15	0.8	SMPC_104+0250D*15**
0.12	18	11	5	15	0.8	SMPC_124+0250D*15**
0.15	18	11	5	15	0.8	SMPC_154+0250D*15**

250Vdc (160Vac)						
Cap. μF	W	H	T	P	d	Part number
0.18	18	11	5	15	0.8	SMPC_184+0250D*15**
0.22	18	11	5	15	0.8	SMPC_224+0250D*15**
0.27	18	12	6	15	0.8	SMPC_274+0250D*15**
0.33	18	12	6	15	0.8	SMPC_334+0250D*15**
0.47	18	13.5	7.5	15	0.8	SMPC_474+0250D*15**
0.68	18	14.5	8.5	15	0.8	SMPC_684+0250D*15**
0.82	18	15.5	9.5	15	0.8	SMPC_824+0250D*15**
1.0	18	15.5	9.5	15	0.8	SMPC_105+0250D*15**
1.2	18	19	11	15	0.8	SMPC_125+0250D*15**
0.47	26.5	15	6	22.5	0.8	SMPC_474+0250D*23**
0.68	26.5	15	6	22.5	0.8	SMPC_684+0250D*23**
0.82	26.5	15	6	22.5	0.8	SMPC_824+0250D*23**
1.0	26.5	16	7	22.5	0.8	SMPC_105+0250D*23**
1.2	26.5	17	8.5	22.5	0.8	SMPC_125+0250D*23**
1.5	26.5	17	8.5	22.5	0.8	SMPC_155+0250D*23**
1.8	26.5	18.5	10	22.5	0.8	SMPC_185+0250D*23**
2.2	26.5	20	11	22.5	0.8	SMPC_225+0250D*23**
2.7	26.5	22	12	22.5	0.8	SMPC_275+0250D*23**
0.82	32	18	9	27.5	0.8	SMPC_824+0250D*28**
1.0	32	18	9	27.5	0.8	SMPC_105+0250D*28**
1.5	32	18	9	27.5	0.8	SMPC_155+0250D*28**
2.2	32	18	9	27.5	0.8	SMPC_225+0250D*28**
2.7	32	20	11	27.5	0.8	SMPC_275+0250D*28**
3.3	32	20	11	27.5	0.8	SMPC_335+0250D*28**
3.9	32	22	13	27.5	0.8	SMPC_395+0250D*28**
4.7	32	28	14	27.5	0.8	SMPC_475+0250D*28**
5.6	32	24.5	15	27.5	0.8	SMPC_565+0250D*28**
6.8	32	33	18	27.5	0.8	SMPC_685+0250D*28**
8.2	32	33	18	27.5	0.8	SMPC_825+0250D*28**
10	32	33	18	27.5	0.8	SMPC_106+0250D*28**
15	32	37	22	27.5	0.8	SMPC_156+0250D*28**

SMPC series

■ Dimensions (mm)

400Vdc (220Vac)						
Cap. μF	W	H	T	P	d	Part number
0.0039	7.2	7.5	3.5	5	0.5	SMPC_392+0400D*05**
0.0047	7.2	7.5	3.5	5	0.5	SMPC_472+0400D*05**
0.0068	7.2	7.5	3.5	5	0.5	SMPC_682+0400D*05**
0.010	7.2	7.5	3.5	5	0.5	SMPC_103+0400D*05**
0.012	7.2	7.5	3.5	5	0.5	SMPC_123+0400D*05**
0.015	7.2	9.5	4.5	5	0.5	SMPC_153+0400D*05**
0.022	7.2	9.5	4.5	5	0.5	SMPC_223+0400D*05**
0.027	7.2	10	5	5	0.5	SMPC_273+0400D*05**
0.033	7.2	11	6	5	0.5	SMPC_333+0400D*05**
0.039	7.2	11	6	5	0.5	SMPC_393+0400D*05**
0.047	7.2	11	6	5	0.5	SMPC_473+0400D*05**
0.010	10.5	9	4	7.5	0.6	SMPC_103+0400D*08**
0.012	10.5	9	4	7.5	0.6	SMPC_123+0400D*08**
0.015	10.5	9	4	7.5	0.6	SMPC_153+0400D*08**
0.022	10.5	9	4	7.5	0.6	SMPC_223+0400D*08**
0.027	10.5	9	4	7.5	0.6	SMPC_273+0400D*08**
0.033	10.5	11	5	7.5	0.6	SMPC_333+0400D*08**
0.047	10.5	11	5	7.5	0.6	SMPC_473+0400D*08**
0.068	10.5	12	6	7.5	0.6	SMPC_683+0400D*08**
0.015	13	9	4	10	0.6	SMPC_153+0400D*10**
0.018	13	9	4	10	0.6	SMPC_183+0400D*10**
0.022	13	9	4	10	0.6	SMPC_223+0400D*10**
0.027	13	9	4	10	0.6	SMPC_273+0400D*10**
0.033	13	9	4	10	0.6	SMPC_333+0400D*10**
0.039	13	9	4	10	0.6	SMPC_393+0400D*10**
0.047	13	11	5	10	0.6	SMPC_473+0400D*10**
0.056	13	11	5	10	0.6	SMPC_563+0400D*10**
0.068	13	11	5	10	0.6	SMPC_683+0400D*10**
0.082	13	12	6	10	0.6	SMPC_823+0400D*10**
0.10	13	12	6	10	0.6	SMPC_104+0400D*10**

400Vdc (220Vac)						
Cap. μF	W	H	T	P	d	Part number
0.10	18	11	5	15	0.8	SMPC_104+0400D*15**
0.12	18	11	5	15	0.8	SMPC_124+0400D*15**
0.15	18	12	6	15	0.8	SMPC_154+0400D*15**
0.18	18	12	6	15	0.8	SMPC_184+0400D*15**
0.22	18	13.5	7.5	15	0.8	SMPC_224+0400D*15**
0.33	18	14.5	8.5	15	0.8	SMPC_334+0400D*15**
0.39	18	15.5	9.5	15	0.8	SMPC_394+0400D*15**
0.47	18	15.5	9.5	15	0.8	SMPC_474+0400D*15**
0.68	18	19	11	15	0.8	SMPC_684+0400D*15**
0.18	26.5	15	6	22.5	0.8	SMPC_184+0400D*23**
0.22	26.5	15	6	22.5	0.8	SMPC_224+0400D*23**
0.33	26.5	15	6	22.5	0.8	SMPC_334+0400D*23**
0.39	26.5	16	7	22.5	0.8	SMPC_394+0400D*23**
0.47	26.5	16	7	22.5	0.8	SMPC_474+0400D*23**
0.68	26.5	17	8.5	22.5	0.8	SMPC_684+0400D*23**
0.82	26.5	18.5	10	22.5	0.8	SMPC_824+0400D*23**
1.0	26.5	20	11	22.5	0.8	SMPC_105+0400D*23**
1.2	26.5	22	12	22.5	0.8	SMPC_125+0400D*23**
1.5	26.5	22	12	22.5	0.8	SMPC_155+0400D*23**
0.68	32	18	9	27.5	0.8	SMPC_684+0400D*28**
1.0	32	18	9	27.5	0.8	SMPC_105+0400D*28**
1.2	32	20	11	27.5	0.8	SMPC_125+0400D*28**
1.5	32	20	11	27.5	0.8	SMPC_155+0400D*28**
1.8	32	22	13	27.5	0.8	SMPC_185+0400D*28**
2.2	32	24.5	15	27.5	0.8	SMPC_225+0400D*28**
2.7	32	28	14	27.5	0.8	SMPC_275+0400D*28**
3.3	32	33	18	27.5	0.8	SMPC_335+0400D*28**
3.9	32	33	18	27.5	0.8	SMPC_395+0400D*28**
4.7	32	37	22	27.5	0.8	SMPC_475+0400D*28**
5.6	32	37	22	27.5	0.8	SMPC_565+0400D*28**

SMPC series

■ Dimensions (mm)

630Vdc (250Vac)						
Cap. μF	W	H	T	P	d	Part number
0.0010	7.2	7.5	3.5	5	0.5	SMPC_102+0630D*05**
0.0033	7.2	7.5	3.5	5	0.5	SMPC_332+0630D*05**
0.0039	7.2	9.5	4.5	5	0.5	SMPC_392+0630D*05**
0.0047	7.2	9.5	4.5	5	0.5	SMPC_472+0630D*05**
0.0056	7.2	10	5	5	0.5	SMPC_562+0630D*05**
0.0068	7.2	10	5	5	0.5	SMPC_682+0630D*05**
0.0082	7.2	11	6	5	0.5	SMPC_822+0630D*05**
0.010	7.2	11	6	5	0.5	SMPC_103+0630D*05**
0.012	7.2	11	6	5	0.5	SMPC_123+0630D*05**
0.0010	10.5	9	4	7.5	0.6	SMPC_102+0630D*08**
0.0033	10.5	9	4	7.5	0.6	SMPC_332+0630D*08**
0.0068	10.5	9	4	7.5	0.6	SMPC_682+0630D*08**
0.010	10.5	9	4	7.5	0.6	SMPC_103+0630D*08**
0.012	10.5	9	4	7.5	0.6	SMPC_123+0630D*08**
0.015	10.5	11	5	7.5	0.6	SMPC_153+0630D*08**
0.018	10.5	11	5	7.5	0.6	SMPC_183+0630D*08**
0.022	10.5	11	5	7.5	0.6	SMPC_223+0630D*08**
0.027	10.5	12	6	7.5	0.6	SMPC_273+0630D*08**
0.033	10.5	12	6	7.5	0.6	SMPC_333+0630D*08**
0.001	13	9	4	10	0.6	SMPC_102+0630D*10**
0.0012	13	9	4	10	0.6	SMPC_122+0630D*10**
0.0015	13	9	4	10	0.6	SMPC_152+0630D*10**
0.0022	13	9	4	10	0.6	SMPC_222+0630D*10**
0.0033	13	9	4	10	0.6	SMPC_332+0630D*10**
0.0047	13	9	4	10	0.6	SMPC_472+0630D*10**
0.0068	13	9	4	10	0.6	SMPC_682+0630D*10**
0.010	13	9	4	10	0.6	SMPC_103+0630D*10**
0.018	13	9	4	10	0.6	SMPC_183+0630D*10**
0.022	13	11	5	10	0.6	SMPC_223+0630D*10**
0.033	13	11	5	10	0.6	SMPC_333+0630D*10**
0.047	13	12	6	10	0.6	SMPC_473+0630D*10**

630Vdc (250Vac)						
Cap. μF	W	H	T	P	d	Part number
0.033	18	11	5	15	0.8	SMPC_333+0630D*15**
0.047	18	11	5	15	0.8	SMPC_473+0630D*15**
0.068	18	12	6	15	0.8	SMPC_683+0630D*15**
0.082	18	12	6	15	0.8	SMPC_823+0630D*15**
0.10	18	13.5	7.5	15	0.8	SMPC_104+0630D*15**
0.15	18	13.5	7.5	15	0.8	SMPC_154+0630D*15**
0.18	18	14.5	8.5	15	0.8	SMPC_184+0630D*15**
0.22	18	15.5	9.5	15	0.8	SMPC_224+0630D*15**
0.27	18	19	11	15	0.8	SMPC_274+0630D*15**
0.33	18	19	11	15	0.8	SMPC_334+0630D*15**
0.10	26.5	15	6	22.5	0.8	SMPC_104+0630D*23**
0.15	26.5	15	6	22.5	0.8	SMPC_154+0630D*23**
0.22	26.5	16	7	22.5	0.8	SMPC_224+0630D*23**
0.27	26.5	17	8.5	22.5	0.8	SMPC_274+0630D*23**
0.33	26.5	17	8.5	22.5	0.8	SMPC_334+0630D*23**
0.39	26.5	19	10	22.5	0.8	SMPC_394+0630D*23**
0.47	26.5	19	10	22.5	0.8	SMPC_474+0630D*23**
0.56	26.5	20	11	22.5	0.8	SMPC_564+0630D*23**
0.68	26.5	22	12	22.5	0.8	SMPC_684+0630D*23**
0.33	32	18	9	27.5	0.8	SMPC_334+0630D*28**
0.47	32	18	9	27.5	0.8	SMPC_474+0630D*28**
0.56	32	20	11	27.5	0.8	SMPC_564+0630D*28**
0.82	32	20	11	27.5	0.8	SMPC_824+0630D*28**
1.0	32	22	13	27.5	0.8	SMPC_105+0630D*28**
1.2	32	24.5	15	27.5	0.8	SMPC_125+0630D*28**
1.5	32	28	14	27.5	0.8	SMPC_155+0630D*28**
1.8	32	33	18	27.5	0.8	SMPC_185+0630D*28**
2.2	32	33	18	27.5	0.8	SMPC_225+0630D*28**
2.7	32	37	22	27.5	0.8	SMPC_275+0630D*28**
3.3	32	37	22	27.5	0.8	SMPC_335+0630D*28**

SMPC series

■ Dimensions (mm)

1000Vdc (400Vac)						
Cap. μF	W	H	T	P	d	Part number
0.0010	13	9	4	10	0.6	SMPC_102+1000D*10**
0.0022	13	9	4	10	0.6	SMPC_222+1000D*10**
0.0033	13	9	4	10	0.6	SMPC_332+1000D*10**
0.0039	13	9	4	10	0.6	SMPC_392+1000D*10**
0.0047	13	11	5	10	0.6	SMPC_472+1000D*10**
0.0068	13	11	5	10	0.6	SMPC_682+1000D*10**
0.0082	13	12	6	10	0.6	SMPC_822+1000D*10**
0.010	13	12	6	10	0.6	SMPC_103+1000D*10**
0.0022	18	11	5	15	0.8	SMPC_222+1000D*15**
0.0033	18	11	5	15	0.8	SMPC_332+1000D*15**
0.0047	18	11	5	15	0.8	SMPC_472+1000D*15**
0.0068	18	11	5	15	0.8	SMPC_682+1000D*15**
0.010	18	11	5	15	0.8	SMPC_103+1000D*15**
0.015	18	12	6	15	0.8	SMPC_153+1000D*15**
0.022	18	13.5	7.5	15	0.8	SMPC_223+1000D*15**
0.027	18	13.5	7.5	15	0.8	SMPC_273+1000D*15**
0.033	18	14.5	8.5	15	0.8	SMPC_333+1000D*15**
0.039	18	15.5	9.5	15	0.8	SMPC_393+1000D*15**
0.047	18	15.5	9.5	15	0.8	SMPC_473+1000D*15**
0.056	18	19	11	15	0.8	SMPC_563+1000D*15**
0.068	18	19	11	15	0.8	SMPC_683+1000D*15**
0.022	26.5	15	6	22.5	0.8	SMPC_223+1000D*23**
0.033	26.5	15	6	22.5	0.8	SMPC_333+1000D*23**
0.047	26.5	16	7	22.5	0.8	SMPC_473+1000D*23**
0.056	26.5	16	7	22.5	0.8	SMPC_563+1000D*23**
0.068	26.5	17	8.5	22.5	0.8	SMPC_683+1000D*23**
0.082	26.5	17	8.5	22.5	0.8	SMPC_823+1000D*23**
0.10	26.5	19	10	22.5	0.8	SMPC_104+1000D*23**
0.12	26.5	22	12	22.5	0.8	SMPC_124+1000D*23**
0.15	26.5	22	12	22.5	0.8	SMPC_154+1000D*23**

1600Vdc (600Vac)						
Cap. μF	W	H	T	P	d	Part number
0.00056	18	11	5	15	0.8	SMPC_561+1600D*15**
0.00068	18	11	5	15	0.8	SMPC_681+1600D*15**
0.0010	18	11	5	15	0.8	SMPC_102+1600D*15**
0.0015	18	11	5	15	0.8	SMPC_152+1600D*15**
0.0022	18	11	5	15	0.8	SMPC_222+1600D*15**
0.0033	18	11	5	15	0.8	SMPC_332+1600D*15**
0.0039	18	11	5	15	0.8	SMPC_392+1600D*15**
0.0047	18	11	5	15	0.8	SMPC_472+1600D*15**
0.0056	18	11	5	15	0.8	SMPC_562+1600D*15**
0.0068	18	11	5	15	0.8	SMPC_682+1600D*15**
0.0082	18	12	6	15	0.8	SMPC_822+1600D*15**
0.010	18	12	6	15	0.8	SMPC_103+1600D*15**
0.015	18	13.5	7.5	15	0.8	SMPC_153+1600D*15**
0.018	18	13.5	7.5	15	0.8	SMPC_183+1600D*15**
0.022	18	14.5	8.5	15	0.8	SMPC_223+1600D*15**
0.027	18	15.5	9.5	15	0.8	SMPC_273+1600D*15**
0.033	18	15.5	9.5	15	0.8	SMPC_333+1600D*15**
0.039	18	19	10	15	0.8	SMPC_393+1600D*15**
0.047	18	19	10	15	0.8	SMPC_473+1600D*15**
0.015	26.5	15	6	22.5	0.8	SMPC_153+1600D*23**
0.018	26.5	15	6	22.5	0.8	SMPC_183+1600D*23**
0.022	26.5	15	6	22.5	0.8	SMPC_223+1600D*23**
0.027	26.5	16	7	22.5	0.8	SMPC_273+1600D*23**
0.033	26.5	16	7	22.5	0.8	SMPC_333+1600D*23**
0.039	26.5	17	8.5	22.5	0.8	SMPC_393+1600D*23**
0.047	26.5	19	10	22.5	0.8	SMPC_473+1600D*23**
0.056	26.5	19	10	22.5	0.8	SMPC_563+1600D*23**
0.068	26.5	22	12	22.5	0.8	SMPC_683+1600D*23**
0.082	26.5	22	12	22.5	0.8	SMPC_823+1600D*23**
0.10	26.5	22	12	22.5	0.8	SMPC_104+1600D*23**

SMPC series

■ Dimensions (mm)

2000Vdc (700Vac)						
Cap. μF	W	H	T	P	d	Part number
0.00056	18	11	5	15	0.8	SMPC_561+2000D*15**
0.00068	18	11	5	15	0.8	SMPC_681+2000D*15**
0.00082	18	11	5	15	0.8	SMPC_821+2000D*15**
0.0010	18	11	5	15	0.8	SMPC_102+2000D*15**
0.0015	18	11	5	15	0.8	SMPC_152+2000D*15**
0.0018	18	11	5	15	0.8	SMPC_182+2000D*15**
0.0022	18	11	5	15	0.8	SMPC_222+2000D*15**
0.0027	18	11	5	15	0.8	SMPC_272+2000D*15**
0.0033	18	11	5	15	0.8	SMPC_332+2000D*15**
0.0039	18	11	5	15	0.8	SMPC_392+2000D*15**
0.0047	18	11	5	15	0.8	SMPC_472+2000D*15**
0.0056	18	12	6	15	0.8	SMPC_562+2000D*15**
0.0068	18	12	6	15	0.8	SMPC_682+2000D*15**
0.0082	18	13.5	7.5	15	0.8	SMPC_822+2000D*15**
0.010	18	13.5	7.5	15	0.8	SMPC_103+2000D*15**
0.015	18	14.5	8.5	15	0.8	SMPC_153+2000D*15**
0.018	18	15.5	9.5	15	0.8	SMPC_183+2000D*15**
0.022	18	19	11	15	0.8	SMPC_223+2000D*15**
0.0068	26.5	15	6	22.5	0.8	SMPC_682+2000D*23**
0.0082	26.5	15	6	22.5	0.8	SMPC_822+2000D*23**
0.010	26.5	15	6	22.5	0.8	SMPC_103+2000D*23**
0.012	26.5	15	6	22.5	0.8	SMPC_123+2000D*23**
0.015	26.5	15	6	22.5	0.8	SMPC_153+2000D*23**
0.018	26.5	16.5	7	22.5	0.8	SMPC_183+2000D*23**
0.022	26.5	17	8.5	22.5	0.8	SMPC_223+2000D*23**
0.027	26.5	17	8.5	22.5	0.8	SMPC_273+2000D*23**
0.033	26.5	19	10	22.5	0.8	SMPC_333+2000D*23**
0.039	26.5	19	10	22.5	0.8	SMPC_393+2000D*23**
0.047	26.5	22	12	22.5	0.8	SMPC_473+2000D*23**
0.056	26.5	22	12	22.5	0.8	SMPC_563+2000D*23**

+ = Capacitance tolerance: K=±10% , J=±5%

* = Lead forming

** = Lead length

SMPC series

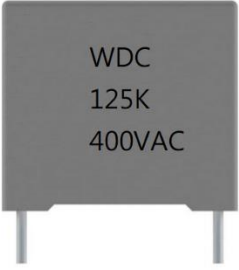
■ Specifications

Test items	Performance	Test Method
Withstand voltage (Between Terminals)	Shall be no abnormality	150% of rated voltage, 60sec
Between terminal and Enclosure	Shall be no abnormality	UR×200%+1000Vac, 60sec.
Insulation resistance (Between Terminals)	$C_R \leq 0.33\mu F$, $IR \geq 15000M\Omega$ $C_R > 0.33\mu F$, $IR \geq 5000S$	Measured at $100 \pm 15Vdc$, For 60sec / $25^\circ C$
Capacitance	Within the tolerance specified	1KHz, 1Vrms Max. at $25^\circ C$
Dissipation Factor	0.001 (0.1%) Max.	1Vrms Max. at $25^\circ C$
Tense Strength of Terminal	No wire breakage and no damage of capacitor	1. Load Force : 1.0 Kg 2. Holding Time : 10 ± 1 sec
Bending Strength of Terminal	No wire breakage and no damage of capacitor	1. Load Force : 0.5 Kg 2. Bending Time : $4 \times 90^\circ$ in 5sec
Solderability	(1) Appearance : No visible damage (2) Covering an area of > solder 95%	1. Solder Temperature : $240 \pm 5^\circ C$ 2. Solder Time : 3 ± 0.5 sec
Heat Shock test	(1) Appearance : No visible damage (2) $\Delta C/C : \leq 3\%$ of the initial value (3) DF (tg δ) : Growth less than ≤ 0.004	The terminal of capacitor shall be immersed in the melting solder. a. Solder Temperature: $260 \pm 5^\circ C$ b. Solder Time: 10 ± 1 sec
Cold Resistance	(1) Appearance : No visible damage (2) $\Delta C/C : \leq 5\%$ of the initial value	a. Test Temperature: $-40^\circ C$ b. Test Times: 2Hrs
Dry Heat Resistance	(3) DF (tg δ) : Growth less than ≤ 0.005 (4) IR : $\geq 50\%$ of clause shall be satisfied	a. Test Temperature: $85^\circ C$ b. Test Times: 16Hrs

SMPC series

Test items	Performance	Test Method
Humidity Resistance	(1) Appearance : No visible damage (2) $\Delta C/C$: $\leq 5\%$ of the initial value (3) DF (tg δ) : Growth less than ≤ 0.002 (4) IR : $\geq 50\%$ of clause shall be satisfied	a. Test Temperature: 40°C $\pm$ 2°C b. Relative Humidity: 90 ~ 95% c. Test Times: 500 $\pm$ 8Hrs d. Applied voltage: R.V Then recovery at ordinary condition at least 6Hrs
Charge & Discharge	(1) Appearance : No visible damage (2) $\Delta C/C$: $\leq 5\%$ of the initial value (3) DF (tg δ) : Growth less than ≤ 0.005 (4) IR : $\geq 50\%$ of clause shall be satisfied	a. Test Voltage : Rated voltage charge for 0.5 sec. Discharge for 0.5 sec. b. Repeated for 10000 cycles
High Temp Loading test (Continuous)	(1) Appearance : No visible damage (2) DF (tg δ) : Growth less than ≤ 0.004 (3) $\Delta C/C$: $\leq 5\%$ of the initial value (4) IR : $\geq 50\%$ of clause shall be satisfied	a. Test Temperature: 85°C $\pm$ 2°C b. Test Times: 1000 $\pm$ 24Hrs c. Apply 125% of the rated voltage Then recovery at ordinary condition at least 6Hrs

■ Mark

DC Marking		AC Marking	
Pitch 5 or 7.5mm	Pitch ≥ 10 mm	Pitch 5 or 7.5mm	Pitch ≥ 10 mm
			
1. WDC is a registered trademark of WINDAY		2. Capacitance: 125 indicates 1.2 μ F or 1200nF	
3. Capacitors Tolerance: K= $\pm 10\%$		4. Rated Voltage: 400Vdc, Indicates 400	
5. Rated Voltage: 400Vac, Indicates 400VAC		6. P or MP for Metallized polypropylene film capacitor	

SMPC series

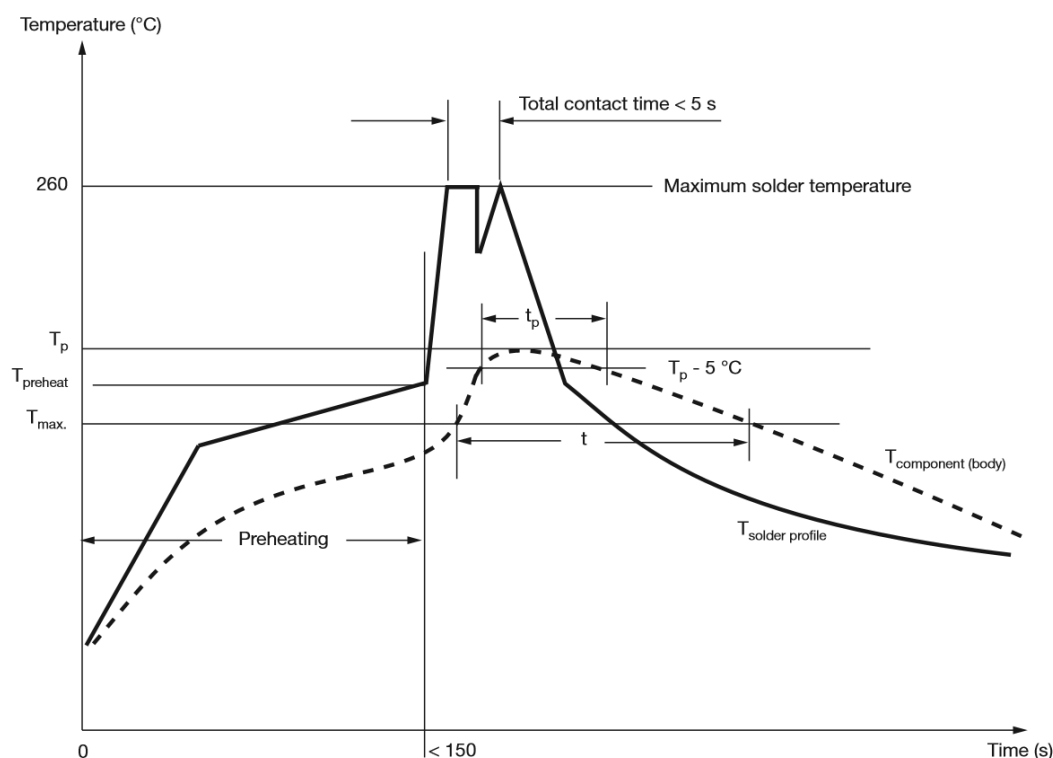
■ Soldering Guidelines for Film Capacitors

WDC recommends that users observe the following guidelines for soldering our film capacitors. Adherence to these recommendations will help to safeguard product specifications and reliability while preventing damage to the capacitors during soldering.

SOLDERING GUIDELINES AND RECOMMENDED WAVE SOLDERING PROFILE

With regard to the resistance to soldering heat and the solderability, our products comply with “IEC 60384-1” and the additional type specifications. The recommended wave soldering profile for our leaded components is defined as follows:

■ Wave Soldering Recommendations



T_p : Peak temperature of the component body (top)

T_{max} : Maximum application temperature of the component

The PSL (Process Sensitivity Level) is classified according JEDEC standard J-STD-075 “Classification of Non-IC Electronic Components for Assembly Processes” and summarized in following tables per product family and pitch size of the component:

SERIES	PRODUCT PITCH SIZE							
	5 mm	7.5 mm	10 mm	15 mm	20/22.5 mm	27.5 mm	31.5 mm	37.5 mm
SMPC	--	(3),(5)	(2),(5)	(1),(6)	(1),(6)	(1),(6)	(1),(6)	(1),(6)

(1) No risk

During soldering: $T_p \leq 110^\circ\text{C}$, $t_p \leq 20\text{ s}$, $t \leq 30\text{ s}$

(2) Risk for parameter change if PSL is not strictly followed

(5) Temperature is measured at the body top and must be kept as follows:

(3) Risk for product damage if PSL is not strictly followed

During preheating: $T_{max.} \leq 110^\circ\text{C}$

(4) Temperature is measured at the body top and must be kept as follows:

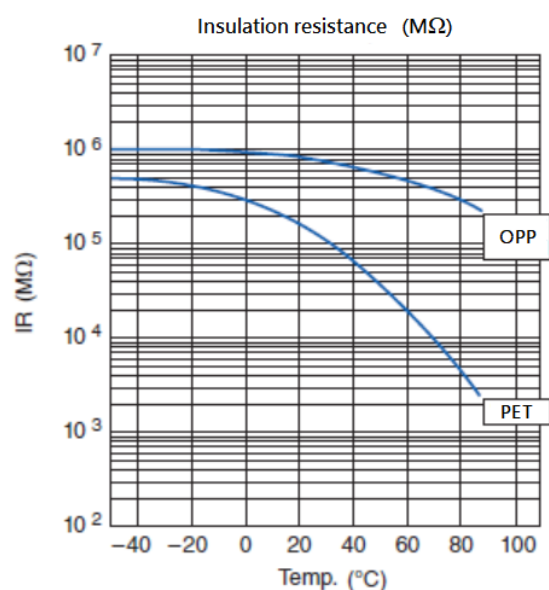
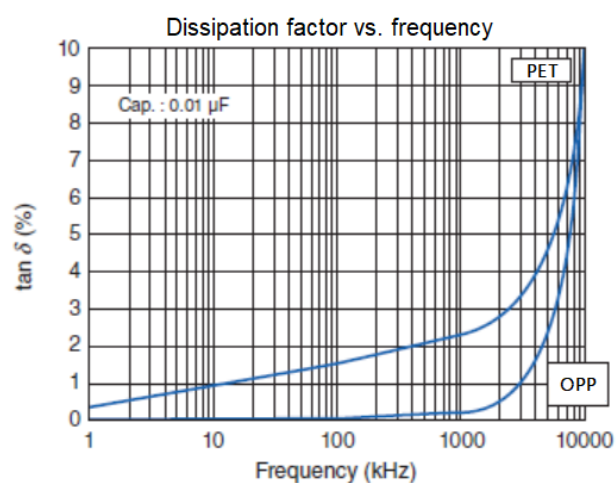
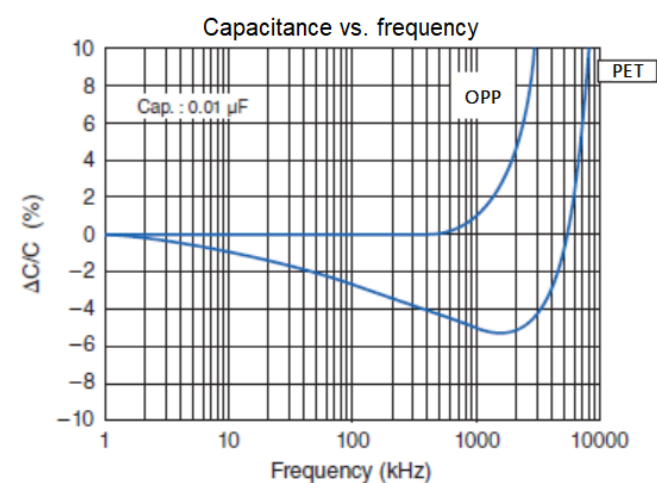
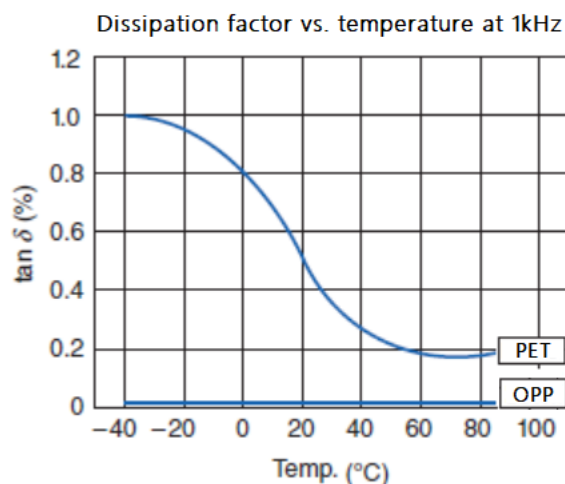
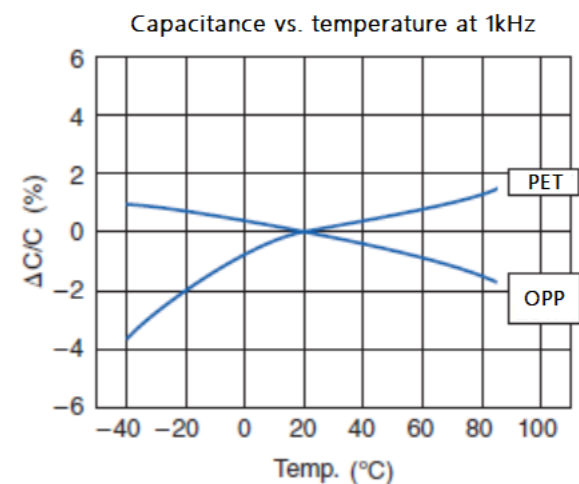
During soldering: $T_p \leq 120^\circ\text{C}$, $t_p \leq 20\text{ s}$, $t \leq 30\text{ s}$

During preheating: $T_{max.} \leq 100^\circ\text{C}$

(6) The component has a preheat limitation of 150 °C

SMPC series

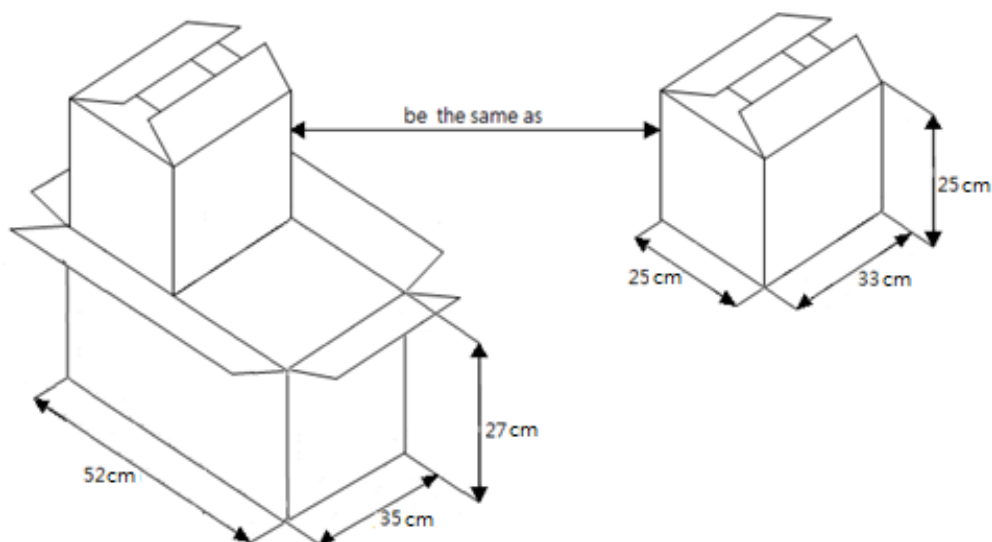
■ Typical graphs



PET :	Metallized Polyester film capacitor
OPP :	Metallized Polypropylene film capacitor

SMPC series

■ Packaging



Size (mm)	Pcs / Bag	Pcs / Inner carton (L33:cm XH:25cm X T:25cm)	Pcs / Out box (L52:cm XH:27cm X T:35cm)
13 * 12 * 6	500	5000	10000
18 * 12 * 6	500	5000	10000
18 * 13.5 * 7.5	300	3000	6000
18 * 15.5 * 9.5	300	3000	6000
18 * 19 * 10.8	200	2000	4000
26.5 * 15 * 6	200	2000	4000
26.5 * 17 * 8.5	200	2000	4000
26.5 * 19 * 10	200	1600	3200
26 * 20 * 11	200	1400	2800
26 * 21.5 * 12	200	1200	2400
26.5 * 23 * 13	200	1200	2400

■ Storage conditions and duration

Packaged capacitors should be kept in clean, ventilated, dry coffers, not near the heat source, not subject to direct sunlight, is strictly prohibited and chemical reagents, acid and harmful gas storage together.

Capacitor at a temperature within the range 20 ~ 25 °C, humidity less than 50% of the state of storage for one year.