

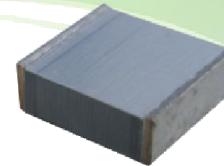
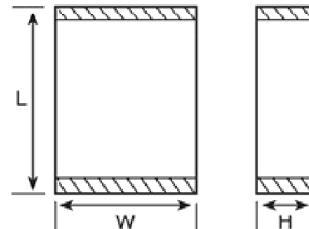
# SMD METALLIZED PEN FILM CAPACITOR

## FEATURES

- SF1
- Use non over case stacked technic. Small size.
  - Stable performance. Good temperature and voltage characteristic. Time reliability and showerproof.
  - High reliability
  - Non-piezoelectric effect, non-polar, non-nonlinear distortion
  - Low ESR, Low Noise Level
  - Strong ability of anti-Pulse

## USE

- Telecommunications, base stations, distributor
- Automotive (engine control systems, security systems, car radios, navigation systems, air-conditioning)
- Lighting (electronic ballast)
- DC/DC switch
- Electrical appliance (LCD, PDP TV)



## DIMENSIONS

Size Code	1206	1210	1812	2220	2824	4030	5040	(mm)
L	3.2±0.2	3.2±0.2	4.5±0.5	5.7±0.5	7.1±0.5	10.2±0.6	12.7±0.6	15.2±0.6
W	1.6±0.2	2.5±0.2	3.2±0.5	5.0±0.5	6.1±0.5	7.6±0.8	10.2±0.8	13.7±0.8
H			±0.2				±0.4	

## SPECIFICATIONS

Standard	IEC60384-19	
Environment	55/125/56	
Rated temperature	105°C	
Temperature	55°C~125°C (+105°C to +125°C: decreasing factor 1.25% per °C for V <sub>R</sub> (DC))	
Rated Voltage	50/63V、100V、250V、400V、630V	
Capacitance	0.001μF~12μF	
Tolerance	±5%(J), ±10%(K), ±20%(M)	
Voltage	1.40U <sub>R</sub> (5s)	
DF	≤0.008(1KHz)	
Insulation Resistance	≥1000MΩ, C <sub>R</sub> 0.33μF	U <sub>R</sub> <100, 充电电压 10V
	≥400s, C <sub>R</sub> >0.33μF	U <sub>R</sub> ≥100, 充电电压 100V (20°C, 1min)
Max. speed of pulse up.	100 resolder	
Solder		

## PATTERN I

Cap (μF)	50/63VDC			100VDC			250VDC			400VDC			630VDC		
	Size	.H	Tape Code	Size	.H	Tape Code	Size	.H	Tape Code	Size	.H	Tape Code	Size	.H	Tape Code
0.001	1812	1.4	a	1812	1.4	a	1812	1.4	a	1812	1.4	a	2220	1.4	a
0.0012	1812	1.4	a	1812	1.4	a	1812	1.4	a	1812	1.4	a	2220	1.4	a
0.0015	1812	1.4	a	1812	1.4	a	1812	1.4	a	1812	1.4	a	2220	1.4	a
0.0018	1812	1.4	a	1812	1.4	a	1812	1.4	a	1812	1.4	a	2220	1.4	a
0.0022	1812	1.4	a	1812	1.4	a	1812	1.4	a	1812	1.4	a	2220	1.4	a
0.0027	1812	1.4	a	1812	1.4	a	1812	1.4	a	1812	1.4	a	2220	1.4	a
0.0033	1812	1.4	a	1812	1.4	a	1812	1.4	a	1812	1.4	a	2220	1.4	a
0.0039	1812	1.4	a	1812	1.4	a	1812	1.4	a	1812	1.4	a	2220	1.4	a
0.0047	1812	1.4	a	1812	1.4	a	1812	1.4	a	1812	1.4	a	2220	1.4	a
0.0056	1812	1.4	a	1812	1.4	a	1812	1.4	a	1812	1.4	a	2220	1.4	a
0.0068	1812	1.4	a	1812	1.4	a	1812	1.4	a	1812	1.4	a	2220	1.4	a
0.0082	1812	1.4	a	1812	1.4	a	1812	1.4	a	1812	1.4	a	2220	1.8	a
0.010	1812	1.4	a	1812	1.4	a	1812	1.4	a	1812	2.0	a	2220	2.0	a
0.012	1812	1.4	a	1812	1.4	a	1812	1.4	a	1812	2.0	b	2220	2.4	b
0.015	1812	1.4	a	1812	1.4	a	1812	1.4	a	1812	1.4	b	2220	3.6	c
0.018	1812	1.4	a	1812	1.4	a	2220	1.4	a	1812	1.4	a	2220	4.0	c
0.022	1812	1.4	a	1812	1.4	a	2220	1.8	a	2220	2.0	a	2824	2.8	a
0.027	1812	1.4	a	1812	1.4	a	2220	2.0	a	2220	2.4	a	2824	3.2	a
0.033	1812	1.4	a	1812	1.4	a	2220	1.4	a	2220	2.8	a	2824	4.0	b
0.039	1812	1.8	b	1812	1.8	b	2220	1.4	a	2220	3.2	b	2824	4.8	c
0.047	1812	2.0	b	1812	2.0	b	2220	1.8	a	2220	3.6	b	4030	2.8	a
0.056	1812	1.4	a	1812	1.4	a	2220	1.8	a	2824	2.8	c	4030	3.6	b

0.068	1812	1.4	a	1812	1.4	a	2220	2.4	a	2824	3.2	a	4030	4.0	b
0.082	1812	1.4	a	1812	1.4	a	2824	1.8	a	2824	4.0	b	4030	4.8	c
0.10	1812	2.0	b	1812	1.4	b	2824	2.0	a	2824	4.8	c	5040	3.6	b
0.12	1812	1.4	a	2220	2.0	a	2824	2.4	a	4030	2.8	a	5040	4.0	b
0.15	1812	1.4	a	2220	1.4	a	2824	3.2	a	4030	3.6	b	5040	5.2	c
0.18	1812	2.0	b	2220	1.4	a	4030	2.0	a	4030	4.4	c	6054	3.6	a
0.22	1812	2.0	b	2220	1.4	a	4030	2.4	a	5040	3.2	a	6054	4.4	b
0.27	2220	1.4	a	2220	1.8	a	4030	2.8	a	5040	4.0	b	6054	5.2	c
0.33	2220	1.4	a	2220	2.4	b	4030	3.6	b	5040	4.8	c			
0.39	2220	1.8	a	2824	2.8	a	5040				4.6	a			
0.47	2220	1.8	a	2824	2.0	a	5040	2.8	a	6054	4.0	b			
0.56	2220	2.4	a	2824	2.4	a	5040	3.6	b	6054	4.8	c			
0.68	2220	2.8	b	2824	2.8	a	6054	2.4	a						
0.82	2824	2.0	a	4030	3.6	a	6054	3.2	a						
1.0	2824	2.4	a	4030	2.4	a	6054	3.6	a						
1.2	2824	3.2	a	5040	2.8	a									
1.5	5040	2.4	a	5040	2.4	a									
1.8	5040	2.8	a	5040	2.4	a									
2.2	5040	3.2	a	5040	3.2	a									
2.7	5040	4.0	b	6054	2.8	a									
3.3	6054	3.2	a	6054	3.2	a									
3.9	6054	3.6	a	6054	3.6	a									
4.7	6054	4.4	b	6054	4.4	b									

## PATTERN II

Cap ( $\mu\text{F}$ )	50/63VDC			100VDC			250VDC		
	Size	.H	Tape Code	Size	.H	Tape Code	Size	.H	Tape Code
0.001	1206	1.1	a	1206	1.1	a	1206	1.1	a
0.0012	1206	1.1	a	1206	1.1	a	1206	1.1	a
0.0015	1206	1.1	a	1206	1.1	a	1206	1.1	a
0.0018	1206	1.1	a	1206	1.1	a	1206	1.1	a
0.0022	1206	1.1	a	1206	1.1	a	1206	1.1	a
0.0027	1206	1.1	a	1206	1.1	a	1206	1.1	a
0.0033	1206	1.1	a	1206	1.1	a	1206	1.1	a
0.0039	1206	1.1	a	1206	1.1	a	1206	1.5	b
0.0047	1206	1.1	a	1206	1.1	a	1206	1.5	b
0.0056	1206	1.1	a	1206	1.1	a	1210	1.5	b
0.0068	1206	1.1	a	1206	1.1	a	1210	1.5	b
0.0082	1206	1.1	a	1206	1.1	a	1210	1.5	b
0.010	1206	1.1	a	1206	1.1	a	1210	2.1	c
0.012	1206	1.1	a	1206	1.1	a	1210	2.2	c
0.015	1206	1.1	a	1206	1.1	a	*	*	*
0.018	1206	1.1	a	1210	1.1	a	1812	1.4	a
0.022	1206	1.1	a	1210	1.1	a	1812	1.8	b
0.027	1206	1.1	a	1210	1.5	b	1812	2.0	b
0.033	1206	1.5	b	1210	1.5	b	1812	2.4	b
0.039	1210	2.1	c	1210	2.1	c	*	*	*
0.047	1210	2.1	c	1210	2.1	c	*	*	*
0.056	1210	1.5	b	*	*	*	*	*	*
0.068	1210	1.5	b	*	*	*	*	*	*
0.082	1210	2.1	c	*	*	*	2220	2.8	b
0.10	1210	2.1	c	*	*	*	2220	3.2	b
0.12	*	*	*	1812	2.4	b	2220	4.0	c
0.15	*	*	*	*	*	*	*	*	*
0.18	*	*	*	*	*	*	2824	3.6	b
0.22	*	*	*	*	*	*	2824	4.6	b
0.27	*	*	*	*	*	*	2824	5.2	c
0.33	*	*	*	*	*	*	*	*	*
0.39	*	*	*	2220	3.2	b	4030	4.0	b
0.47	*	*	*	2220	4.0	c	4030	4.8	c
0.56	*	*	*	2220	4.4	c	4030	5.6	c
0.68	*	*	*	*	*	*	5040	4.0	b
0.82	2220	3.2	b	2824	4.0	c	5040	4.8	c
1.0	2220	4.0	c	2824	5.2	c	*	*	*
1.2	*	*	*	4030	3.2	a	6054	4.4	b
1.5	2824	3.6	b	4030	4.0	b	6054	5.2	c
1.8	2824	4.4	c	4030	4.8	c			
2.2	2824	5.2	c	4030	5.6	c			
2.7	4030	3.6	b	5040	4.0	b			
3.3	4030	4.4	c	5040	5.0	c			
3.9	4030	4.8	c	5040	5.6	c			
4.7	5040	3.6	b	*	*	*			
5.6	5040	4.0	b	6054	5.0	c			
6.8	5040	5.0	c						
8.2	6054	3.6	a						
10.0	6054	4.4	b						
12	6054	5.2	c						