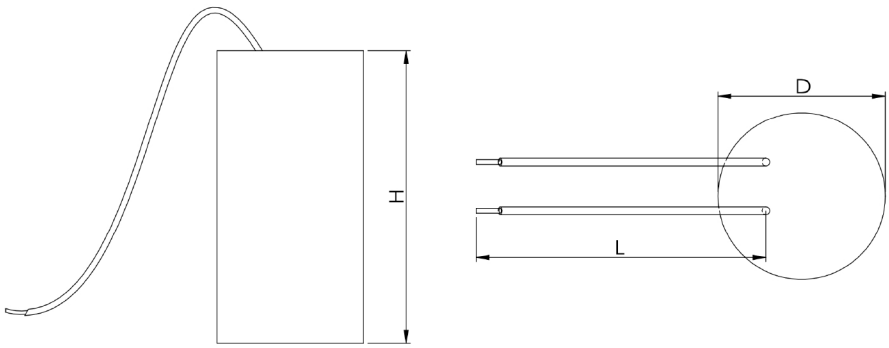
Metallized polypropylene film pulse capacitor

■ Outline Drawing



■ Features

- High energy density
- High operating current
- Long charge-discharge lifetime
- Plastic case, available with insulated leads

■ Applications

- External defibrillator
- Pulse power applications

■ Specifications

Reference standards	JB/T 8168
Rated Voltage(U_N)	1 800Vdc~2 600Vdc
Capacitance Range	54μF ~182μF
Capacitance Tolerance	±5%(J)，±10%(K)
Dielectric dissipation factor ($\tan\delta_d$)	2×10^{-4}
Operating temperature range (θ_{case})	-20℃ ~ 55℃
Storage temperature range	-40℃ ~ 85℃
Non-recurrent surge voltage(U_s)	1.1U_N (50ms every time, 1 000 times during the whole life)
Insulation Resistance(IR×C_N)	≥10 000s (20℃, 500V, 1min after charge test voltage)
Test voltage between terminals	1.1U_N(60s, 20℃±5℃)
Case	Plastic
Expected lifetime	10 000 pulses @ Max.U_N, 25℃, Rated operating current
Failure rate	100 FIT
Terminal form	UL 3239 insulated leads
Fixed style	任意方向 Any Position

C3S

■ Part number code system

The 15 digits part number is formed as follow:

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
C	3	S												

Digit 1 to 3 Series code C3S

Digit 4 to 5 D.C. rated voltage

6M=1 800V 3D=2 000V 2N=2 200V

1N=2 400V 3N=2 600V

Digit 6 to 8 Rated capacitance value

for example: 105=10×10^5pF=1.0μF

Digit 9 Capacitance tolerance

J=±5%, K=±10%

Digit 10~15 Internal use

■ Technical data

U_N (Vdc)	C_N (μF)	Joules (J)	U_s (Vdc)	Î (A)	$Î_s$ (A)	Dimension(mm)		Weight (kg)	Part number
						D±2	H±2		
1 800	115	186	1 980	540	1 620	50	118	0.33	C3S6M117-******
	134	217	1 980	850	2 550	60	93	0.37	C3S6M137-******
	182	295	1 980	850	2 550	60	118	0.44	C3S6M187-******
2 000	93	186	2 200	520	1 560	50	118	0.33	C3S3D936-******
	107	214	2 200	820	2 460	60	93	0.37	C3S3D107-******
	147	294	2 200	820	2 460	60	118	0.44	C3S3D147-******
2 200	76	184	2 420	500	1 500	50	118	0.33	C3S2N766-******
	88	213	2 420	800	2 400	60	93	0.37	C3S2N886-******
	120	290	2 420	800	2 400	60	118	0.44	C3S2N127-******
2 400	64	184	2 640	490	1 470	50	118	0.33	C3S1N646-******
	74	213	2 640	780	2 340	60	93	0.37	C3S1N746-******
	100	288	2 640	770	2 310	60	118	0.44	C3S1N107-******
2 600	54	183	2 860	480	1 440	50	118	0.33	C3S3N546-******
	62	210	2 860	760	2 280	60	93	0.37	C3S3N626-******
	85	287	2 860	760	2 280	60	118	0.44	C3S3N856-******

Note: 1. "-" =capacitance tolerance code , J=±5%, K=±10%.

2. "*******" =Internal use.

3. "U_s" means to Non-recurrent surge voltage. Generally 50ms every time, 1000 times during the whole lifetime.

4. "Î" means the Max. peak operating current at room temperature, the discharge current waveform depends on the discharge circui

5. "$Î_s$" means the Max. Surge operating current at room temperature.

6. Other values and dimensions available on request.