

## Sub-miniature Metallized Polyester Film Capacitor - ZZEC



### CL21X(MSF)

#### FEATURES

- Ultra-small, low noise, good appearance consistency.
- Metallized polyester film, small inherent temperature rise.
- High voltage resistance, high temperature wax sealed, flame retardant epoxy powder coating.
- Moisture-proof, flame retardant.
- Low dissipation factor.
- Good self-healing property, good stability and reliability.

#### APPLICATIONS

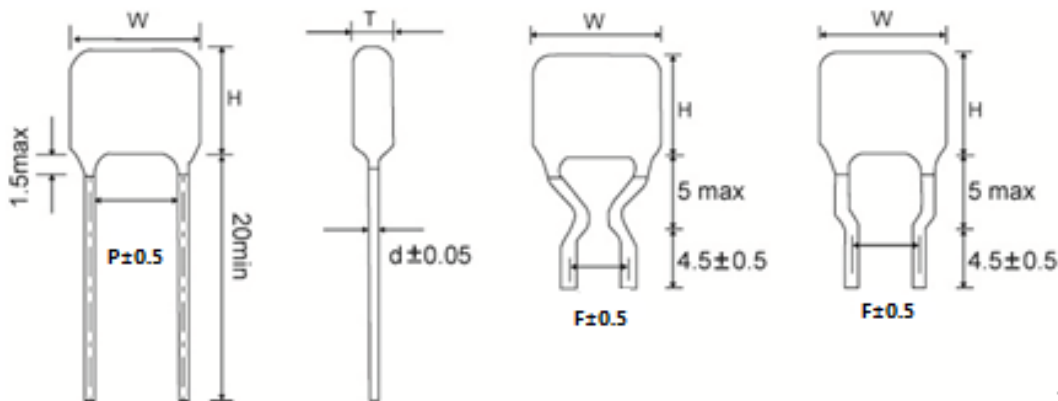
Widely used in various DC and low pulse occasions, for the amplifier, TV, communications, power supply, LED drivers and other requirements of the small size of capacitors.



#### SPECIFICATIONS

Climatic Category	55/085/21
Rated Voltage	63V、100V、250V、400V、630
Capacitance Range	0.0010Mf ~5.6μF
Capacitance Tolerance	±5%(J), ±10%(K),
Voltage Proof	1.6U <sub>R</sub>
Insulation resistance	≥3000MΩ, CR≤0.33μF(20℃、1min)
	≥10 000S, CR>0.33 μF (20℃, 1min)
Tangent of loss angle	≤0.008 %(20℃、1KHZ)

#### DRAWING: (mm)



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## STANDARD SIZE

Dimensions(mm) and special specifications can product according to your demand.

CAP (μF)	50/63/100VDC					250 VDC					400VDC					630VDC				
	W	H	T	P	D	W	H	T	P	D	W	H	T	P	D	W	H	T	P	D
	Max	max	max			max	max	max			max	Max	max			max	Max	max		
0.001	7.2	7.2	4	5	0.5	7.2	7.2	4	5	0.5	7.2	7.2	4	5	0.5	7.2	7.2	4	5	0.5
0.0012	7.2	7.2	4	5	0.5	7.2	7.2	4	5	0.5	7.2	7.2	4	5	0.5	7.2	7.2	4	5	0.5
0.0015	7.2	7.2	4	5	0.5	7.2	7.2	4	5	0.5	7.2	7.2	4	5	0.5	7.2	7.2	4	5	0.5
0.0018	7.2	7.2	4	5	0.5	7.2	7.2	4	5	0.5	7.2	7.2	4	5	0.5	7.2	7.2	4	5	0.5
0.0022	7.2	7.2	4	5	0.5	7.2	7.2	4	5	0.5	7.2	7.2	4	5	0.5	7.2	7.2	4	5	0.5
0.0027	7.2	7.2	4	5	0.5	7.2	7.2	4	5	0.5	7.2	7.2	4	5	0.5	7.2	7.2	4	5	0.5
0.0033	7.2	7.2	4	5	0.5	7.2	7.2	4	5	0.5	7.2	7.2	4	5	0.5	7.2	7.2	4	5	0.5
0.0039	7.2	7.2	4	5	0.5	7.2	7.2	4	5	0.5	7.2	7.2	4	5	0.5	7.2	7.2	4	5	0.5
0.0047	7.2	7.2	4	5	0.5	7.2	7.2	4	5	0.5	7.2	7.2	4	5	0.5	7.2	7.2	4	5	0.5
0.0056	7.2	7.2	4	5	0.5	7.2	7.2	4	5	0.5	7.2	7.2	4	5	0.5	7.2	7.2	4	5	0.5
0.0068	7.2	7.2	4	5	0.5	7.2	7.2	4	5	0.5	7.2	7.2	4	5	0.5	7.2	7.2	4	5	0.5
0.0082	7.2	7.2	4	5	0.5	7.2	7.2	4	5	0.5	7.2	7.2	4	5	0.5	7.2	7.5	4.5	5	0.5
0.01	7.2	7.2	4	5	0.5	7.2	7.2	4	5	0.5	7.2	7.2	4	5	0.5	7.2	8	4.8	5	0.5
0.012	7.2	7.2	4	5	0.5	7.2	7.2	4	5	0.5	7.2	7.2	4	5	0.5	7.2	8.5	5	5	0.5
0.015	7.2	7.2	4	5	0.5	7.2	7.2	4	5	0.5	7.2	7.2	4	5	0.5	7.2	8.8	5.2	5	0.5
0.018	7.2	7.2	4	5	0.5	7.2	7.2	4	5	0.5	7.2	7.2	4	5	0.5	7.2	9	5.3	5	0.5
0.022	7.2	7.2	4	5	0.5	7.2	7.2	4	5	0.5	7.2	7.2	4	5	0.5	7.2	9.3	5.5	5	0.5
0.027	7.2	7.2	4	5	0.5	7.2	7.2	4	5	0.5	7.2	7.2	4	5	0.5	7.2	9.5	5.6	5	0.5
0.033	7.2	7.2	4	5	0.5	7.2	7.2	4	5	0.5	7.2	7.2	4	5	0.5	7.2	9.8	5.8	5	0.5
0.039	7.2	7.2	4	5	0.5	7.2	7.2	4	5	0.5	7.2	7.2	4	5	0.5	7.2	10.2	6	5	0.5
0.047	7.2	7.2	4	5	0.5	7.2	7.2	4	5	0.5	7.2	7.2	4	5	0.5	7.2	11.5	6.5	5	0.5
0.056	7.2	7.2	4	5	0.5	7.2	7.5	4.5	5	0.5	7.2	8.5	4.5	5	0.5					
0.068	7.2	7.2	4	5	0.5	7.2	7.5	4.5	5	0.5	7.2	9	5	5	0.5					
0.082	7.2	7.2	4	5	0.5	7.2	8.5	4.5	5	0.5	7.2	9	5	5	0.5					
0.1	7.2	7.2	4	5	0.5	7.2	8.5	4.5	5	0.5	7.2	10	5.5	5	0.5					
0.12	7.2	7.5	4.5	5	0.5	7.2	9	5	5	0.5	7.2	10	5.5	5	0.5					
0.15	7.2	7.5	4.5	5	0.5	7.2	9	5	5	0.5	7.2	11	6	5	0.5					
0.18	7.2	7.5	4.5	5	0.5	7.2	10	5.5	5	0.5	7.2	11.5	6.5	5	0.5					
0.22	7.2	7.5	4.5	5	0.5	7.2	10	5.5	5	0.5	7.2	12	7	5	0.5					
0.27	7.2	7.5	4.5	5	0.5	7.2	11	6	5	0.5										
0.33	7.2	8.5	4.5	5	0.5	7.2	12	7	5	0.5										

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### STANDARD SIZE

CAP ( $\mu$ F)	50/63/100VDC					250 VDC					400VDC					630VDC						
	W	H	T	P	D	W	H	T	P	D	W	H	T	P	D	W	H	T	P	D		
	Max	max	max			max	max	max			max	Max	max			max	Max	max			max	
0.39	7.2	8.5	4.5	5	0.5	7.2	12	7	5	0.5												
0.47	7.2	9	5	5	0.5																	
0.56	7.2	9	5	5	0.5																	
0.68	7.2	10.0	5	5	0.5																	
0.82	7.2	11.5	5.2	5	0.5																	
1	7.2	12.0	5.6	5	0.5																	
1.5	7.2	12.5	6.5	5	0.5																	
2.2	7.2	12.5	7	5	0.5																	
3.3	9.5	13.5	8	7.5	0.5																	
4.7	12	14.5	8	10	0.6																	
5.6	12	15.5	8.5	10	0.6																	



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