



Specifications

Items	Condition	Specifications				
Rated voltage (V)	—	16	20	25	32	35
Surge voltage (V)	Room temperature	18	23	29	37	40
Category temperature range (°C)	—	-55 to +105				
Capacitance tolerance (%)	120Hz/20°C	M : ±20				
Dissipation Factor (DF)	120Hz/20°C	Please see the attached characteristics list				
Leakage current※1	Rated voltage applied, after 2 minutes	Please see the attached characteristics list				
Equivalent series resistance (ESR)	100kHz to 300kHz/20°C	Please see the attached characteristics list				
Characteristics of impedance ratio at high temp. and low temp.	Based the value at 100kHz, +20°C	-55°C	Z/Z20°C	0.75 to 1.25		
		+105°C	Z/Z20°C	0.75 to 1.25		
Endurance	105°C, 5,000h, Rated voltage applied	ΔC/C	Within ±20% of the initial value			
		DF	Within 1.5 times of the initial limit			
		ESR	Within 1.5 times of the initial limit			
		LC	Within the initial limit			
Damp heat(Steady state)	60°C, 90 to 95%RH, 1,000h, No-applied voltage	ΔC/C	Within ±20% of the initial value			
		DF	Within 1.5 times of the initial limit			
		ESR	Within 1.5 times of the initial limit			
		LC	Within the initial limit (after voltage processing)			
Resistance to soldering heat※2	Flow method (260±5°C X 10s)	ΔC/C	Within ±5% of the initial value			
		DF	Within the initial limit			
		ESR	Within the initial limit			
		LC	Within the initial limit (after voltage processing)			

※1 In case of some problems for measured values, measure after applying rated voltage for 120 minutes at 105°C.

※2 Please refer to page 25 for flow soldering conditions.

Marking and dimensions

Polarity marking
(Cathode)

223
SEPF
68
32

Case No.

Series

(SEPF)

Rated capacitance

Rated voltage

(unit : mm)

Size code	$\phi D \pm 0.5$	L max	F	$\phi d \pm 0.05$
C55	6.3	5.5	2.5 ± 0.5	0.45
C6	6.3	6.0	2.5 ± 0.5	0.5
E7	8.0	7.0	3.5 ± 0.5	0.5※
E12	8.0	12.0	3.5 ± 0.5	0.6
F13	10.0	13.0	5.0 ± 0.5	0.6

※3 32SEPF68M is 0.6 ± 0.05