

CME Series

Features

- $\phi 6.3 \sim \phi 10$, 105°C, 20000 hours assured
- Ultra low ESR and high ripple current
- Solid Electrolytic Capacitors of SMD type
- RoHS compliant, REACH & SVHC compliant



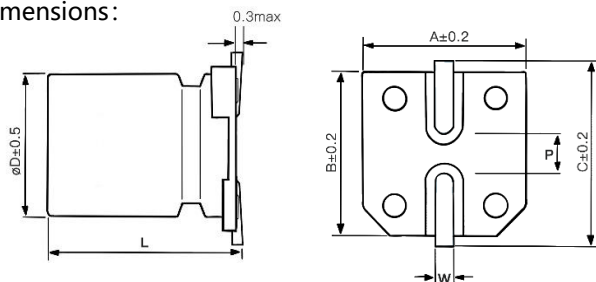
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Specifications					
Category temp. range	-55°C to +105°C				
Capacitance tolerance	±20% (120 Hz / +20 °C)				
Leakage current	Rated voltage applied, after 2 minutes at 20°C. Please see the attached characteristics list				
Tan δ	Please see the attached characteristics list				
ESR	Please see the attached characteristics list				
Characteristics at low temperature	Z (-25 °C) / Z (+20 °C) ≤1.15			Max. Impedance ratio at 100 kHz	
	Z (-55 °C) / Z (+20 °C) ≤1.25				
Endurance	Test Time	20000H			
	Capacitance change	Within ±20% of the initial value			
	Dissipation factor (tan δ)	Less than 150% of the initial value			
	ESR	Less than 150% of the initial value			
	Leakage current	Within the initial limit			
	The above specifications shall be satisfied when the capacitors are restored to 20°C after the rated voltage applied for 2,000hours at 105°C.				
Moisture Resistance	Test Time	1000H			
	Capacitance change	Within ±20% of the initial value			
	Dissipation factor (tan δ)	Less than 150% of the initial value			
	ESR	Less than 150% of the initial value			
	Leakage current	Within the initial limit			
	The above specifications shall be satisfied when the capacitors are restored to 20°C after subjecting them at 60°C, 90 ~ 95%RH for 1,000 hours. Leakage current should be tested after voltage treatment*.				
Resistance to soldering heat	After reflow soldering and then being stabilized at +20 °C, capacitors shall meet the following limits.				
	Capacitance change	Within ±10% of the initial value			
	Dissipation factor (tan δ)	Within the initial limit			
	ESR	Within the initial limit			
	Leakage current	Within the initial limit			
Ripple Current and Frequency Multipliers	Frequency	120≤ f <1k	1k≤ f <10k	10k≤ f <100k	100k≤ f <500k
	Multiplier	0.05	0.3	0.7	1.0

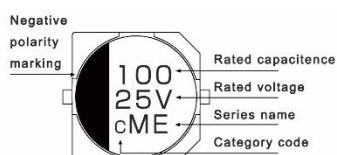
* For any doubt about measured values, measure the leakage current again after the following voltage treatment.

Voltage treatment: DC rated voltage is applied to the capacitors for 2 hours at 105 °C.

Dimensions:



Marking:



Dimensions						Unit: mm
ϕD	L	A	B	C	W	P ± 0.2
6.3	6 ± 0.5	6.6	6.6	7.3	0.5~0.8	2.0
6.3	7.7 ± 0.5	6.6	6.6	7.3	0.5~0.8	2.0
8	10 ± 0.5	8.3	8.3	9.1	0.7~1.3	3.1
8	12.5 ± 0.5	8.3	8.3	9.1	0.7~1.3	3.1
10	10.5 ± 0.5	10.3	10.3	11.1	0.7~1.3	4.4
10	12.5 ± 0.5	10.3	10.3	11.1	0.7~1.3	4.4

Characteristics list

Rated voltage (V)	Capacitance (±20%) (μF)	Case size		Specification				Part Number④	Taping&Reel
		øD (mm)	L (mm)	Rated ripple current① (mA rms)	ESR② (mΩ)	tan δ③	L.C. (μA)		MPQ (pcs/reel)
2.5	680	6.3	7.7	3800	10	0.12	340	CME0E681M0607	1000
	1000	8	10	4300	10	0.12	500	CME0E102M0810	500
	1200	8	12.5	5400	9	0.12	600	CME0E122M0813	400
	1500	10	10.5	5500	10	0.12	750	CME0E152M1010	500
	2700	10	12.5	5600	9	0.12	1350	CME0E272M1013	400
4	470	6.3	7.7	3800	15	0.12	376	CME0G471M0607	1000
	820	8	10	4000	12	0.12	656	CME0G821M0810	500
	1000	8	12.5	4300	11	0.12	800	CME0G102M0813	400
	1500	10	10.5	5000	10	0.12	1200	CME0G152M1010	500
	2200	10	12.5	5300	10	0.12	1760	CME0G222M1013	400
6.3	470	6.3	7.7	4000	13	0.12	592	CME0J471M0607	1000
	680	8	10	4500	12	0.12	857	CME0J681M0810	500
	820	8	12.5	4800	11	0.12	1033	CME0J821M0813	400
	1000	10	10.5	5000	12	0.12	1260	CME0J102M1010	500
	1500	10	12.5	5400	10	0.12	1890	CME0J152M1013	400
10	330	6.3	7.7	3400	15	0.12	660	CME1A331M0607	1000
	470	8	10	3800	13	0.12	940	CME1A471M0810	500
	680	8	12.5	4200	14	0.12	1360	CME1A681M0813	400
	820	10	10.5	4300	15	0.12	1640	CME1A821M1010	500
	1000	10	12.5	4800	13	0.12	2000	CME1A102M1013	400
16	150	6.3	6	2400	30	0.12	480	CME1C151M0606	1000
	220	6.3	7.7	4100	15	0.12	704	CME1C221M0607	1000
	470	8	10	3500	18	0.12	1504	CME1C471M0810	500
	560	8	12.5	4100	17	0.12	1792	CME1C561M0813	400
	820	10	10.5	4200	16	0.12	2624	CME1C821M1010	500
	1000	10	12.5	5200	12	0.12	3200	CME1C102M1013	400
25	68	6.3	6	2200	35	0.12	340	CME1E680M0606	1000
	100	6.3	7.7	2900	26	0.12	500	CME1E101M0607	1000
	220	8	10	2500	30	0.12	1100	CME1E221M0810	500
	330	8	12.5	3600	20	0.12	1650	CME1E331M0813	400
	470	10	10.5	2100	40	0.12	2350	CME1E471M1010	500
	680	10	12.5	4300	20	0.12	3400	CME1E681M1013	400
35	47	6.3	6	800	85	0.12	329	CME1V470M0606	1000
	68	6.3	7.7	1100	60	0.12	476	CME1V680M0607	1000
	120	8	10	3800	25	0.12	840	CME1V121M0810	500
	150	8	12.5	4000	20	0.12	1050	CME1V151M0813	400
	220	10	10.5	4100	22	0.12	1540	CME1V221M1010	500
	330	10	12.5	4400	18	0.12	2310	CME1V331M1013	400
50	10	6.3	6	700	95	0.12	100	CME1H100M0606	1000
	22	6.3	7.7	1000	70	0.12	220	CME1H220M0607	1000
	33	8	10	3800	25	0.12	330	CME1H330M0810	500
	47	8	12.5	3900	24	0.12	470	CME1H470M0813	400
	68	10	10.5	4000	23	0.12	680	CME1H680M1010	500
	100	10	12.5	4300	20	0.12	1000	CME1H101M1013	400

① Rated ripple current (100kHz / +105°C) ② ESR (100kHz / +20°C) ③ tan δ (120Hz / +20°C)

※Please refer to the page of reflow conditions for reflow profile.

Part Number System:

Polymer E-cap	CME series	25V	100μF	±20 %	6.3 φ x7.7L	
C	ME	1E	101	M	0607	
Category	Series name	Rated voltage	Capacitance	Tolerance	Case Size	Supplement

④ Note: For more details, please refer to "Part Number System - Conductive Polymer Solid Capacitors"