ME-CZ Series

Small Standard
Wide Temperature

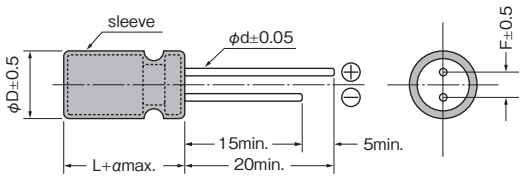
- 105℃ 1,000 to 3,000hours
- Solvent proof (within 5 minutes)

■ Specifications

Items	Condition		Specifications							
Rated voltage (V)	–		6.3	10	16	25	35	50	63	100
Surge voltage (V)	Room temperature		8.0	13	20	32	44	63	79	125
Category temperature range (℃)	–		−55 to +105							
Capacitance tolerance (%)	120Hz/20℃		M : ±20							
Dissipation Factor(tan δ)	tanδ(max.)120Hz/20℃		0.28	0.24	0.20	0.16	0.14	0.12	0.10	0.10
			Exceeding 1,000μF, +0.02 every 1,000μF							
Leakage current(LC)	μA/after 2minutes (max.), 20℃		The greater value of either 0.01CV or 3							
Impedance ratio at low temperature	Based on the value at 120Hz, +20℃	−40℃ Z/Z20℃	4	4	3	3	2	2	2	2
		−55℃ Z/Z20℃	10	8	6	5	4	3	3	3
Endurance	105℃ rated voltage applied (With the rated ripple current)	Test	φ5 to φ8 : 1,000hours, φ10 : 2,000hours, φ12.5 to φ18 : 3,000hours							
		△C/C	Within ±25% of the initial value							
		tanδ	Less than 200% of the specified value							
		LC	Less than the specified value							

■ Dimensions

(Unit : mm)



α : L<20 α=1.5, L≥20 α=2.0

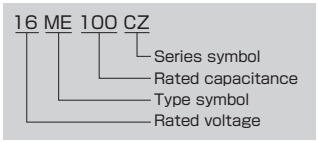
A pressure relief vent is provided for φD=6.3 or bigger

φD	5	6.3	8	10	12.5	16	18
F	2.0	2.5	3.5	5.0	5.0	7.5	7.5
φd	0.5	0.5	0.6	0.6	0.6	0.8	0.8

■ Size, Impedance, Rated Ripple Current

V / Items / Case size φD×L(mm)	6.3			10		
	Capacitance (μF)	Impedance(Ωmax.) (20℃/100kHz)	Rated ripple current(mArms) (105℃/100kHz)	Capacitance (μF)	Impedance(Ωmax.) (20℃/100kHz)	Rated ripple current(mArms) (105℃/100kHz)
5×11	220	1.4	160	100	1.4	150
6.3×11	330	0.58	240	220	0.58	240
6.3×11	470	0.55	250	330	0.55	250
8×11.5	1000	0.26	450	470	0.39	370
10×12.5				1000	0.16	560
10×16	2200	0.12	760			
10×20	3300	0.10	900	2200	0.10	900
12.5×20	4700	0.072	1100	3300	0.074	1100
12.5×25	6800	0.054	1420	4700	0.054	1420
16×25	10000	0.043	1700	6800	0.043	1700
16×31.5				10000	0.035	1950
16×35.5	15000	0.032	2100			
18×35.5				15000	0.028	2400

■ Part number



Aluminum Electrolytic Type / Radial Lead Type — RoHS compliance

■ Size, Impedance, Rated Ripple Current

V / Items / Case size φD×L(mm)	16			25		
	Capacitance (μF)	Impedance(Ωmax.) (20℃/100kHz)	Rated ripple current(mArms) (105℃/100kHz)	Capacitance (μF)	Impedance(Ωmax.) (20℃/100kHz)	Rated ripple current(mArms) (105℃/100kHz)
5×11	100	1.4	150	47	1.4	150
6.3×11	220	0.55	240	100	0.60	240
8×11.5	330	0.35	370	220	0.39	370
8×11.5	470	0.28	450	330	0.34	400
10×12.5				470	0.17	560
10×16	1000	0.13	760			
10×20				1000	0.10	900
12.5×20	2200	0.075	1100			
12.5×25	3300	0.054	1320	2200	0.062	1320
16×25	4700	0.043	1600	3300	0.043	1600
16×31.5	6800	0.035	1900	4700	0.035	1900
18×35.5	10000	0.028	2300	6800	0.028	2200

V / Items / Case size φD×L(mm)	35			50		
	Capacitance (μF)	Impedance(Ωmax.) (20℃/100kHz)	Rated ripple current(mArms) (105℃/100kHz)	Capacitance (μF)	Impedance(Ωmax.) (20℃/100kHz)	Rated ripple current(mArms) (105℃/100kHz)
5×11				2.2	5.5	40
5×11				3.3	4.0	50
5×11				4.7	2.8	80
5×11				10	2.3	90
5×11	33	2.1	120	22	2.2	110
5×11	47	2.1	140	33	2.1	120
6.3×11	100	1.1	180	47	1.1	180
8×11.5	220	0.46	360	100	0.55	310
10×12.5	330	0.26	500	220	0.30	500
10×16	470	0.18	650	330	0.20	650
10×20				470	0.13	800
12.5×20	1000	0.11	900			
12.5×25				1000	0.10	1100
16×25	2200	0.056	1400			
16×31.5				2200	0.055	1650
16×35.5	3300	0.038	1800			
18×35.5	4700 ★	0.035	2000	3300	0.035	2000

★ Available 40V(40ME4700CZ)

V / Items / Case size φD×L(mm)	63			100		
	Capacitance (μF)	Impedance(Ωmax.) (20℃/100kHz)	Rated ripple current(mArms) (105℃/100kHz)	Capacitance (μF)	Impedance(Ωmax.) (20℃/100kHz)	Rated ripple current(mArms) (105℃/100kHz)
5×11	2.2	8.3	42	2.2	11	42
5×11	3.3	6.0	58	3.3	8.0	58
5×11	4.7	4.2	64	4.7	5.6	64
5×11	10	2.8	90			
5×11	22	2.4	140			
6.3×11	33	1.4	200	10	1.7	108
6.3×11	47	1.3	240			
8×11.5				22	0.83	235
8×12.5	100	0.60	300	33	0.60	300
10×12.5				47	0.39	330
10×16	220	0.22	520			
10×20	330	0.17	765	100	0.24	450
12.5×20	470	0.14	960			
12.5×25				220	0.15	700
16×25	1000	0.065	1100	330	0.090	950
16×30				470	0.085	1100

Please refer to page 14 for ripple current frequency coefficients.