

ME-CZ Series

Small Standard

Wide Temperature

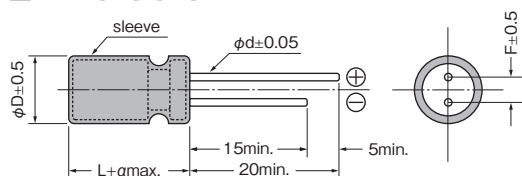


- 105°C 1,000 to 3,000hours
- Solvent proof (within 5 minutes)

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 (°C)	—		-55 to +105							
Capacitance tolerance (%)	120Hz/20°C		M : ±20							
Dissipation Factor(tan δ)	tanδ(max.) 120Hz/20°C		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°C		The greater value of either 0.01CV or 3							
Impedance ratio at low temperature	Based on the value at 120Hz, +20°C	-40°C Z/Z _{20°C}	4	4	3	3	2	2	2	2
		-55°C Z/Z _{20°C}	10	8	6	5	4	3	3	3
Endurance	105°C rated voltage applied (With the rated ripple current)	Test	φ5 to φ8 : 1,000hours, φ10 : 2,000hours, φ12.5 to φ18 : 3,000hours							
		ΔC/C	Within ±25% of the initial value							
		tanδ	Not more than 200% of the specified value							
		LC	Not more than the specified value							
Shelf Life	105°C, 1,000hours(with no voltage load)		Shall meet the endurance spec above after voltage treatment at 20deg.C per JIS C 5101-4 4.1.							

Dimensions


 $\alpha : L < 20 \quad \alpha = 1.5, L \geq 20 \quad \alpha = 2.0$

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

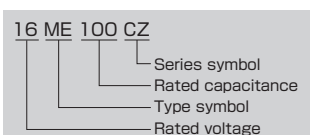
(Unit : mm)

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

Case size φD×L(mm)	Items	6.3				10			
		Capacitance (μF)	Impedance(Ωmax.) (20°C/100kHz)	Rated ripple current (mArms/105°C)		Capacitance (μF)	Impedance(Ωmax.) (20°C/100kHz)	Rated ripple current (mArms/105°C)	
				120Hz	100kHz			120Hz	100kHz
5×11		220	1.4	88	160	100	1.4	83	150
6.3×11		330	0.58	156	240	220	0.58	132	240
6.3×11		470	0.55	163	250	330	0.55	163	250
8×11.5		1000	0.26	293	450	470	0.39	241	370
10×12.5						1000	0.16	364	560
10×16		2200	0.12	570	760				
10×20		3300	0.10	675	900	2200	0.10	675	900
12.5×20		4700	0.072	825	1100	3300	0.074	825	1100
12.5×25		6800	0.054	1065	1420	4700	0.054	1065	1420
16×25		10000	0.043	1275	1700	6800	0.043	1275	1700
16×31.5						10000	0.035	1463	1950
16×35.5		15000	0.032	1575	2100				
18×35.5						15000	0.028	1800	2400

Part number



Size, Impedance, Rated Ripple Current

Case size φD×L(mm)	Items	16				25			
		Capacitance (μF)	Impedance(Ωmax.) (20°C/100kHz)	Rated ripple current (mA _{rms} /105°C)		Capacitance (μF)	Impedance(Ωmax.) (20°C/100kHz)	Rated ripple current (mA _{rms} /105°C)	
				120Hz	100kHz			120Hz	100kHz
5×11		100	1.4	83	150	47	1.4	75	150
6.3×11		220	0.55	132	240	100	0.60	132	240
8×11.5		330	0.35	241	370	220	0.39	204	370
8×11.5		470	0.28	293	450	330	0.34	260	400
10×12.5						470	0.17	364	560
10×16		1000	0.13	494	760				
10×20						1000	0.10	585	900
12.5×20		2200	0.075	825	1100				
12.5×25		3300	0.054	990	1320	2200	0.062	990	1320
16×25		4700	0.043	1200	1600	3300	0.043	1200	1600
16×31.5		6800	0.035	1425	1900	4700	0.035	1425	1900
18×35.5		10000	0.028	1725	2300	6800	0.028	1650	2200

Case size φD×L(mm)	Items	35				50			
		Capacitance (μF)	Impedance(Ωmax.) (20°C/100kHz)	Rated ripple current (mA _{rms} /105°C)		Capacitance (μF)	Impedance(Ωmax.) (20°C/100kHz)	Rated ripple current (mA _{rms} /105°C)	
				120Hz	100kHz			120Hz	100kHz
5×11						3.3	4.0	25	50
5×11						4.7	2.8	40	80
5×11						10	2.3	45	90
5×11		33	2.1	60	120	22	2.2	55	110
5×11		47	2.1	70	140	33	2.1	60	120
6.3×11		100	1.1	99	180	47	1.1	90	180
8×11.5		220	0.46	198	360	100	0.55	171	310
10×12.5		330	0.26	325	500	220	0.30	275	500
10×16		470	0.18	423	650	330	0.20	423	650
10×20						470	0.13	520	800
12.5×20		1000	0.11	585	900				
12.5×25						1000	0.10	715	1100
16×25		2200	0.056	1050	1400				
16×31.5						2200	0.055	1238	1650
16×35.5		3300	0.038	1350	1800				
18×35.5		4700 ★	0.035	1500	2000	3300	0.035	1500	2000

★ Available 40V (40ME4700CZ)

Case size φD×L(mm)	Items	63				100			
		Capacitance (μF)	Impedance(Ωmax.) (20°C/100kHz)	Rated ripple current (mA _{rms} /105°C)		Capacitance (μF)	Impedance(Ωmax.) (20°C/100kHz)	Rated ripple current (mA _{rms} /105°C)	
				120Hz	100kHz			120Hz	100kHz
5×11		3.3	6.0	29	58	3.3	8.0	29	58
5×11		4.7	4.2	32	64	4.7	5.6	32	64
5×11		10	2.8	45	90				
5×11		22	2.4	70	140				
6.3×11		33	1.4	100	200	10	1.7	54	108
6.3×11		47	1.3	120	240				
8×11.5						22	0.83	118	235
8×12.5		100	0.60	165	300	33	0.60	150	300
10×12.5						47	0.39	165	330
10×16		220	0.22	286	520				
10×20		330	0.17	498	765	100	0.24	248	450
12.5×20		470	0.14	624	960				
12.5×25						220	0.15	385	700
16×25		1000	0.065	715	1100	330	0.090	618	950
16×30						470	0.085	715	1100

Please refer to page 16 for ripple current frequency coefficients.