

# ME-CX Series

Small, Long Life

Low Impedance

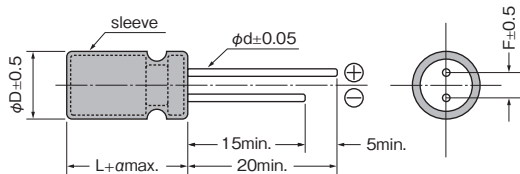


- 105°C 2,000 to 7,000hours
- Solvent proof (within 5 minutes)

## Specifications

Items	Condition	Specifications					
Rated voltage (V)	—	6.3	10	16	25	35	
Surge voltage (V)	Room temperature	8.0	13	20	32	44	
Category temperature range (°C)	—	-55 to +105					
Capacitance tolerance (%)	120Hz/20°C	M: ±20					
Dissipation Factor (tan δ)	tanδ (max.) 120Hz/20°C	0.22	0.19	0.16	0.14	0.12	
		Exceeding 1,000μF, +0.02 every 1,000μF					
Leakage current (LC)	μA/after 2minutes (max.), 20°C	0.01CV					
Impedance ratio at low temperature	Based on the value at 120Hz, +20°C	-40°C   Z/Z <sub>20°C</sub>	3	2	2	2	2
		-55°C   Z/Z <sub>20°C</sub>	4	4	3	3	3
Endurance	105°C rated voltage applied (With the rated ripple current)	Test	φ5 to φ6.3 : 2,000hours, φ8 : 3,000hours, φ10 : 4,000hours, φ12.5 : 5,000hours, φ16 to φ18 : 7,000hours				
		ΔC/C	Within ±25% of the initial value				
		tanδ	Less than 200% of the specified value				
		LC	Less than the specified value				

## 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

★φ12.5×30:φd=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 (mA rms) (105°C/10k to 200kHz)	Capacitance (μF)	Impedance (Ωmax.) (20°C/100kHz)	Rated ripple current (mA rms) (105°C/10k to 200kHz)
5×11		180	0.34	205	150	0.34	205
6.3×11		330	0.17	330	270	0.17	330
6.3×11		390	0.17	330	330	0.17	330
8×11.5		680	0.11	580	470	0.11	580
8×11.5					560	0.11	580
10×12.5		1200	0.063	900	820	0.063	900
10×16		1500	0.049	1200	1000	0.049	1200
10×16					1200	0.049	1200
10×20		2200	0.036	1450	1500	0.036	1450
10×22		2700	0.036	1500	1800	0.036	1500
12.5×20		3900	0.035	1660	2700	0.035	1660
12.5×25		4700	0.027	2000	3900	0.027	2000
12.5×25		5600	0.027	2000			
12.5×30	★1	6800	0.024	2450	★1 4700	0.024	2450
16×21	★2	5600	0.032	2000	★2 3900	0.032	2000
16×25		6800	0.022	2560	4700	0.022	2560
16×25		8200	0.022	2560	5600	0.022	2560
16×31.5		10000	0.017	3010	6800	0.017	3010
16×31.5					8200	0.017	3010
16×35.5		12000	0.016	3150	10000	0.016	3150
18×21	★2	6800	0.030	2490	★2 5600	0.030	2490
18×25	★2	10000	0.022	2740	★2 6800	0.022	2740
18×30.5	★2	12000	0.017	3330	★2 10000	0.017	3330
18×35.5		15000	0.016	3680	12000	0.016	3680

★1 CXL ★2 CXS

- ME-SZ
- ME-SAX
- ME-SWG
- ME-LS
- ME-CZ
- ME-CA
- ME-CX**
- ME-AX
- ME-WX
- ME-WA
- ME-WL
- ME-WG
- ME-FX
- ME-FC-FD
- ME-FH
- ME-SWN
- ME-HWN

■ Size, Impedance, Rated Ripple Current

Case size φD×L(mm)	Items	16			25		
		Capacitance (μF)	Impedance(Ωmax.) (20°C/100kHz)	Rated ripple current(mArms) (105°C/10k to 200kHz)	Capacitance (μF)	Impedance(Ωmax.) (20°C/100kHz)	Rated ripple current(mArms) (105°C/10k to 200kHz)
5×11		100	0.34	205	68	0.34	205
6.3×11		180	0.17	330	120	0.17	330
6.3×11		220	0.17	330	150	0.17	330
8×11.5		330	0.11	580	220	0.11	580
10×12.5		560	0.063	900	390	0.063	900
10×12.5					★2 470	0.063	900
10×16		820	0.049	1200	560	0.049	1200
10×16					★2 680	0.049	1200
10×20		1000	0.036	1450	680	0.036	1450
10×20					820	0.036	1450
10×20					★2 1000	0.036	1450
10×22		1200	0.036	1500	1000	0.036	1500
12.5×20		1500	0.035	1660	1200	0.035	1660
12.5×20		1800	0.035	1660	1500	0.035	1660
12.5×25		2200	0.027	2000	1800	0.027	2000
12.5×25		2700	0.027	2000	2200	0.027	2000
12.5×30	★1	3300	0.024	2450	★1 2200	0.024	2450
16×21	★2	2700	0.032	2000	★2 1800	0.032	2000
16×25		3300	0.022	2560	2700	0.022	2560
16×25		3900	0.022	2560			
16×31.5		4700	0.017	3010	3300	0.017	3010
16×31.5		5600	0.017	3010			
16×35.5		6800	0.016	3150	3900	0.016	3150
18×21	★2	3300	0.030	2490	★2 2200	0.030	2490
18×25	★2	4700	0.022	2740	★2 3300	0.022	2740
18×30.5					★2 3900	0.017	3330
18×35.5					4700	0.016	3680
18×35.5		8200	0.016	3680	5600	0.016	3680

Case size φD×L(mm)	Items	35		
		Capacitance (μF)	Impedance(Ωmax.) (20°C/100kHz)	Rated ripple current(mArms) (105°C/10k to 200kHz)
5×11		47	0.34	205
6.3×11		100	0.17	330
8×11.5		150	0.11	580
10×12.5		270	0.063	900
10×12.5	★2	330	0.063	900
10×16		330	0.049	1200
10×16		390	0.049	1200
10×16	★2	470	0.049	1200
10×20		470	0.036	1450
10×20		560	0.036	1450
10×20	★2	680	0.036	1450
10×22		680	0.036	1500
12.5×20		820	0.035	1660
12.5×20		1000	0.035	1660
12.5×25		1200	0.027	2000
12.5×25		1500	0.027	2000
12.5×30	★1	1500	0.024	2450
16×21	★2	1200	0.032	2000
16×25		1800	0.022	2560
16×31.5		2700	0.017	3010
16×35.5		3300	0.016	3150
18×21	★2	1500	0.030	2490
18×25		2200	0.022	2740
18×30.5	★2	3300	0.017	3330
18×35.5		3900	0.016	3680

★1 CXL  
★2 CXS

Please refer to page 14 for ripple current frequency coefficients.

■ Part number

