

ME-CA Series

Small

Low Impedance

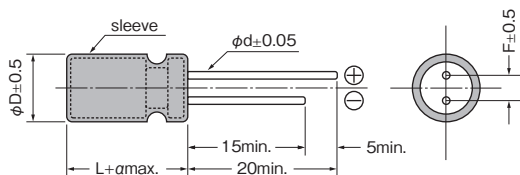


- 105°C 1,000 to 3,000hours
- Solvent proof (within 5 minutes)

Specifications

Items	Condition		Specifications					
Rated voltage (V)	—		6.3	10	16	25	35	50
Surge voltage (V)	Room temperature		8.0	13	20	32	44	63
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
			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}	3	3	2	2	2	2
		-55°C Z/Z _{20°C}	6	5	4	4	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 φ16 : 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 $\phi D = 6.3$ or bigger

(Unit : mm)

φD	5	6.3	8	10	12.5	16
F	2.0	2.5	3.5	5.0	5.0	7.5
φd	0.5	0.5	0.6	0.6	0.6	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)		Capacitance (μF)	Impedance(Ωmax.) (20°C/100kHz)	Rated ripple current (mA _{rms} /105°C)	
				120Hz	10k to 200kHz			120Hz	10k to 200kHz
5×11		220	0.50	99	180				
6.3×11		330	0.30	182	280	220	0.30	154	280
6.3×11		470	0.24	182	280	330	0.24	182	280
8×11.5		1000	0.15	364	560	470	0.16	267	410
10×12.5						1000	0.086	462	710
10×16		2200	0.066	713	950				
10×20		3300	0.047	863	1150	2200	0.047	863	1150
12.5×20		4700	0.042	1095	1460	3300	0.042	1095	1460
12.5×25		6800	0.031	1335	1780	4700	0.031	1335	1780
16×25		10000	0.026	1500	2000	6800	0.026	1500	2000
16×31.5						10000	0.022	1650	2200
16×35.5		15000	0.022	1650	2200				

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	10k to 200kHz			120Hz	10k to 200kHz
5×11		100	0.50	99	180				
6.3×11		220	0.24	154	280	100	0.30	154	280
8×11.5		330	0.16	267	410	220	0.16	226	410
8×11.5		470	0.15	364	560	330	0.15	364	560
10×12.5						470	0.086	462	710
10×16		1000	0.066	618	950				
10×20						1000	0.047	748	1150
12.5×20		2200	0.042	1095	1460				
12.5×25		3300	0.035	1335	1780	2200	0.035	1335	1780
16×25		4700	0.026	1500	2000	3300	0.026	1500	2000
16×31.5		6800	0.022	1650	2200	4700	0.022	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	10k to 200kHz			120Hz	10k to 200kHz
5×11						4.7	2.0	45	90
5×11						10	1.7	55	110
5×11		33	0.72	90	180	22	1.2	60	120
5×11		47	0.50	90	180	33	0.95	65	130
6.3×11		100	0.24	154	280	47	0.56	95	190
8×11.5		220	0.15	308	560	100	0.30	176	320
10×12.5		330	0.086	462	710	220	0.16	286	520
10×16		470	0.066	618	950	330	0.12	436	670
10×20						470	0.088	533	820
12.5×20		1000	0.042	949	1460				
12.5×25						1000	0.053	780	1200
16×25		2200	0.026	1500	2000				
16×31.5						2200	0.029	1313	1750
16×35.5		3300	0.022	1650	2200				

Please refer to page 16 for ripple current frequency coefficients.

Part number

