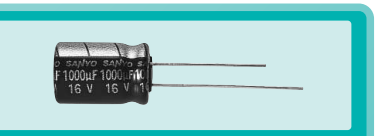
ME-CA Series

Low Impedance
Miniature

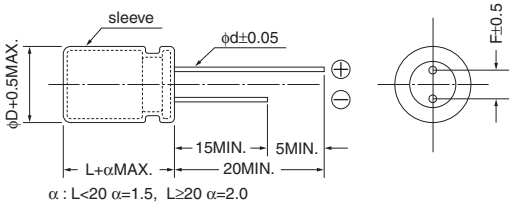


- 105°C, 1000 to 3000hrs.
- Solvent proof (within 5 minutes)

Specifications

Items		Specifications					
Rated voltage (V)		6.3	10	16	25	35	50
Category temperature range (°C)		–55 to +105					
Capacitance tolerance (%)		±20 (120Hz/20°C)					
Tangent of loss angle (tanδ) (MAX.) (120Hz/20°C)		0.28	0.24	0.20	0.16	0.14	0.12
		When rated capacitance exceeds 1000μF, add 0.02 to the value above for each 1000μF increase.					
Leakage current (L.C.) (μA/after 2min.) (MAX.)		The greater value of either 0.01CV or 3					
Impedance (120Hz) ratio at low temperature (MAX.)	$Z_{-40°C}/Z_{20°C}$	3	3	2	2	2	2
	$Z_{-55°C}/Z_{20°C}$	6	5	4	4	3	3
Endurance 105°C rated voltage applied (With the rated ripple current)	Test	φ5 to φ8 :1000hrs., φ10 : 2000hrs., φ12.5 to φ16 : 3000hrs.					
	ΔC/C	Within ±25% of the initial value					
	tanδ	≤ Twice the initial specified value					
	L.C.	≤ The initial specified value					

Dimensions



α : L<20 α=1.5, L≥20 α=2.0

A pressure relief vent is attached to products over φD=6.3

(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 List, Impedance, Rated Ripple Current

V / Items / Case size φD x L (mm)	6.3			10		
	Capacitance (μF)	Impedance (ΩMAX.) (20°C/100kHz)	Ripple current (mAr.m.s.) (105°C/10k to 200kHz)	Capacitance (μF)	Impedance (ΩMAX.) (20°C/100kHz)	Ripple current (mAr.m.s.) (105°C/10k to 200kHz)
5 x 11	220	0.50	180			
6.3 x 11	330	0.30	280	220	0.30	280
6.3 x 11	470	0.24	280	330	0.24	280
8 x 11.5	1000	0.15	560	470	0.16	410
10 x 12.5				1000	0.086	710
10 x 16	2200	0.066	950			
10 x 20	3300	0.047	1150	2200	0.047	1150
12.5 x 20	4700	0.042	1460	3300	0.042	1460
12.5 x 25	6800	0.031	1780	4700	0.031	1780
16 x 25	10000	0.026	2000	6800	0.026	2000
16 x 31.5				10000	0.022	2200
16 x 35.5	15000	0.022	2200			

■Size List, Impedance, Rated Ripple Current

V / Items / Case size φD x L (mm)	16			25		
	Capacitance (μF)	Impedance (ΩMAX.) (20°C/100kHz)	Ripple current (mAr.m.s.) (105°C/10k to 200kHz)	Capacitance (μF)	Impedance (ΩMAX.) (20°C/100kHz)	Ripple current (mAr.m.s.) (105°C/10k to 200kHz)
5 x 11	100	0.50	180			
6.3 x 11	220	0.24	280	100	0.30	280
8 x 11.5	330	0.16	410	220	0.16	410
8 x 11.5	470	0.15	560	330	0.15	560
10 x 12.5				470	0.086	710
10 x 16	1000	0.066	950			
10 x 20				1000	0.047	1150
12.5 x 20	2200	0.042	1460			
12.5 x 25	3300	0.035	1780	2200	0.035	1780
16 x 25	4700	0.026	2000	3300	0.026	2000
16 x 31.5	6800	0.022	2200	4700	0.022	2200

V / Items / Case size φD x L (mm)	35			50		
	Capacitance (μF)	Impedance (ΩMAX.) (20°C/100kHz)	Ripple current (mAr.m.s.) (105°C/10k to 200kHz)	Capacitance (μF)	Impedance (ΩMAX.) (20°C/100kHz)	Ripple current (mAr.m.s.) (105°C/10k to 200kHz)
5 x 11				0.47	5.5	20
5 x 11				1.0	3.3	30
5 x 11				2.2	3.0	45
5 x 11				3.3	2.7	55
5 x 11				4.7	2.0	90
5 x 11				10	1.7	110
5 x 11	33	0.72	180	22	1.2	120
5 x 11	47	0.50	180	33	0.95	130
6.3 x 11	100	0.24	280	47	0.56	190
8 x 11.5	220	0.15	560	100	0.30	320
10 x 12.5	330	0.086	710	220	0.16	520
10 x 16	470	0.066	950	330	0.12	670
10 x 20				470	0.088	820
12.5 x 20	1000	0.042	1460			
12.5 x 25				1000	0.053	1200
16 x 25	2200	0.026	2000			
16 x 31.5				2200	0.029	1750
16 x 35.5	3300	0.022	2200			

■Model No. 16 ME 2200 CA
- CA: Series code
- 2200: Rated capacitance symbol
- ME: Type code
- 16: Rated voltage