

MV-CA Series Low impedance, Smaller in size

MV-CA series is 1 rank smaller than standard low impedance series (30%).

MV-CA series has an effect on high performance, miniaturization for any products, and solvent proof (within 5 minutes).

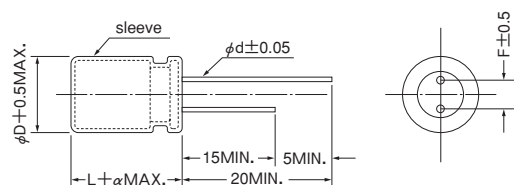
CA ← low impedance CZ



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 (tan δ) (MAX.)		0.28	0.24	0.20	0.16	0.14	0.12
		When nominal capacitance exceeds 1000 µF, add 0.02 to the value above for each 1000 µF increase. (120Hz/20°C)					
Leakage current (L.C.) (µA/after 2 min.) (MAX.)		The greater value of either 0.01CV or 3					
Impedance (120Hz) ratio at low temperature (MAX.)	Z-40°C/Z20°C	3	3	2	2	2	2
	Z-55°C/Z20°C	6	5	4	4	3	3
Endurance rated voltage applied	Test	105°C 3000 hrs. (φD ≤ 8, 1000hrs. φD = 10, 2000hrs.)					
	ΔC/C	Within ±25% of the initial value					
	tan δ	≤ Twice the initial standard					
	L.C.	≤ The initial standard					

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, Maximum Permissible Ripple Current

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

Impedance ; (Ω) MAX. at 100kHz, 20°C

Maximum Permissible Ripple Current ; (mA r.m.s.) at 100kHz, 105°C

MV-CA Series

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

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

Model No. 16 MV 2200 CA

└─ Series code
 └─ Capacitance symbol
 └─ Type code※
 └─ Rated voltage

※Type code

Environment-friendly capacitors	Sn-Pb lead finishing
Pb free lead finishing	PVC sleeve
Pb free PET sleeve	
ME	MV