

MV-CX Series

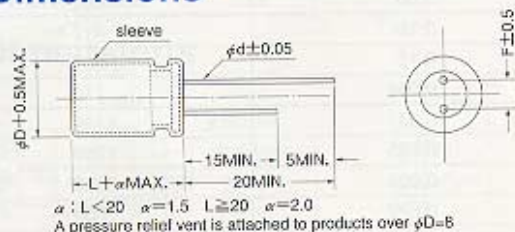
Low impedance, Smaller in size, Long life

MV-CX series is smaller than MV-AX series and low impedance, long life.
It is suitable for switching power supply, noise limiter etc.
Solvent proof (within 5 minutes).

Specifications

Items		Specifications				
Rated voltage (V)		6.3	10	16	25	35
Operating temperature range (°C)		-55 to +105				
Capacitance tolerance (%)		±20 (120Hz)				
Tangent of loss angle (tan δ) (MAX.)		0.22	0.19	0.16	0.14	0.12
Leakage current (L.C.) (μA/after 2min.) (MAX.)		0.01CV				
Impedance (120Hz) ratio at low temperature (MAX.)	Z-40°C/Z20°C	3	2	2	2	2
	Z-55°C/Z20°C	4	4	3	3	3
High-temperature load 105°C rated voltage applied.	TEST (hrs.)	φ 5 to 6.3 : 2000、φ 8 : 3000、φ 10 : 4000、φ 12.5 : 5000、φ 16 to 18 : 7000				
	ΔC/C	Within ± 25% of the initial value				
	tanδ	≤ Twice the initial standard				
	L.C.	≤ The initial standard				
Other characteristics		Conform to IEC 60384-4				

Dimensions



(Unit :mm)

φ D	5	6.3	8	10	12.5	16	18
F	2.0	2.5	3.5	5.0	5.0	7.5	7.5
φ d	0.5	0.5	0.6	0.6	0.6*	0.8	0.8

* φ 12.5×30 : φ d=0.8

Size List, Impedance, Maximum Permissible Ripple Current

Case size (φD×Lmm)	6.3			10		
	Capacitance	Impedance (ΩMAX.)	Ripple current (mArms)	Capacitance	Impedance (ΩMAX.)	Ripple current (mArms)
	(μF)	(20°C/100kHz)	(105°C/10k to 200kHz)	(μF)	(20°C/100kHz)	(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			
8×11.5	680	0.11	580	470	0.11	580
8×11.5				580	0.11	580
8×15	1000	0.080	750	680	0.080	750
8×20	※1 1200	0.060	1000	※1 1000	0.060	1000
8×20	※1 1500	0.060	1000			
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
12.5×16	※2 2200	0.049	1400	※2 1800	0.049	1400
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
18×41	18000	0.015	3800	15000	0.015	3800

※1 : Series symbol is CXL, ※2 : Series symbol is CXS

MV-CX Series

CX Low impedance mini

AX

Case size (ϕ DXLmm)	V	16			25		
		Capacitance (μ F)	Impedance (Ω MAX.) (20°C/100kHz)	Ripple current (mA rms) (105°C/10k to 200kHz)	Capacitance (μ F)	Impedance (Ω MAX.) (20°C/100kHz)	Ripple current (mA rms) (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
8×11.5		330	0.11	580	220	0.11	580
8×15		470	0.080	750	330	0.080	750
8×20		680	0.060	1000	470	0.060	1000
10×12.5		560	0.063	900	390	0.063	900
10×16		820	0.049	1200	560	0.049	1200
10×20		1000	0.036	1450	680	0.036	1450
10×20					820	0.036	1450
10×22		1200	0.036	1500	1000	0.036	1500
12.5×16	※2	1200	0.049	1400	※2 820	0.049	1400
12.5×20		1500	0.035	1660	1200	0.035	1660
12.5×20		1800	0.035	1660			
12.5×25		2200	0.027	2000	1800	0.027	2000
12.5×25		2700	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		8200	0.016	3680	5600	0.016	3680
18×41		10000	0.015	3800	6800	0.015	3800

Case size (ϕ DXLmm)	V	35		
		Capacitance (μ F)	Impedance (Ω MAX.) (20°C/100kHz)	Ripple current (mA rms) (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
8×15		220	0.080	750
8×20	※1	330	0.060	1000
10×12.5		270	0.063	900
10×16		330	0.049	1200
10×16		390	0.049	1200
10×20		470	0.036	1450
10×20		560	0.036	1450
10×22		680	0.036	1500
12.5×16	※2	560	0.049	1400
12.5×20		820	0.035	1660
12.5×25		1200	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
18×35.5		3900	0.016	3680
18×41		4700	0.015	3800

※1 : Series symbol is CXL, ※2 : Series symbol is CXS

Model No. 10MV1000CX ※1 10MV1000CXL ※2 10MV1800CXS

Capacitance symbol Capacitance symbol Capacitance symbol

Rated voltage Rated voltage Rated voltage