

MV-WX Series Low impedance and high ripple current

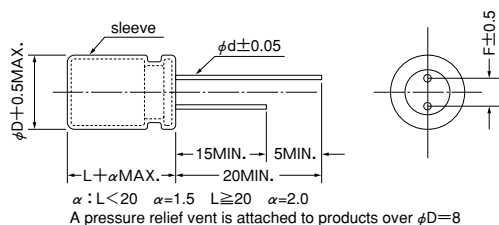


MV-WX series is low impedance and high ripple current at high frequency.
MV-WX series reduced high-frequency impedance to 40% as compared with MV-AX series (same size series).

Specifications

Items		Specifications					
Rated voltage (V)		6.3	10	16	25	35	50
Operating temperature (°C)		-40~+105					
Capacitance tolerance (%)		±20 (120Hz)					
Tangent of loss angle (tanδ) (MAX.)		0.22	0.19	0.16	0.14	0.12	0.10
		0.02 to be added to the above value every time nominal capacitance exceeds 1000 μF. (120Hz)					
Leakage current (L.C.) (μA/after 2 min.) (MAX.)		0.01CV					
Impedance (120Hz) ratio at low temperature (MAX.)	Z-25℃/Z20℃	2	2	2	2	2	2
	Z-40℃/Z20℃	3	3	3	3	3	3
High-temperature load rated voltage applied	Test (hrs.)	φ D=5, φ 6.3; 2000hrs、φ D=8; 3000hrs、φ D=10, 12.5; 4000hrs、φ D=16; 5000hrs					
	ΔC/C	Within ±25% of the initial value					
	tan δ	≤ Twice the initial standard					
	L.C.	≤ The initial standard					
Other characteristics		Conform to IEC 60384-4					

Dimension

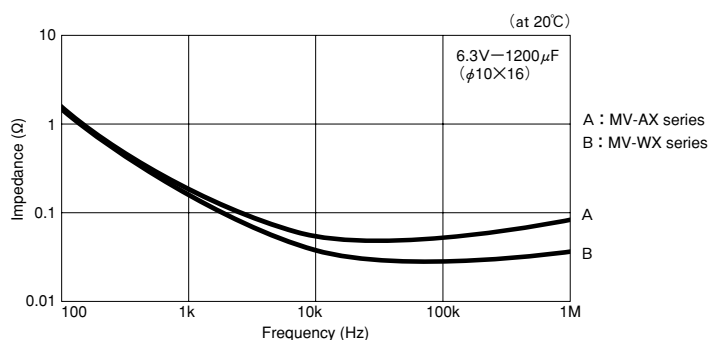


(Unit : mm)

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

* φ 12.5×30 : φ d=0.8

Impedance vs. Frequency



MV-WX Series

WX



Low impedance
mini

AX

Specifications

	6.3			10		
	Capacitance	Impedance and ESR (ΩMAX.)	Ripple current (mArms)	Capacitance	Impedance and ESR (ΩMAX.)	Ripple current (mArms)
	(μF)	(20°C/100kHz)	(105°C/100kHz)	(μF)	(20°C/100kHz)	(105°C/100kHz)
5×11	150	0.30	250	100	0.30	250
6.3×11	330	0.13	405	220	0.13	405
8×11.5	560	0.072	760	470	0.072	760
8×15	820	0.056	995	※1 680	0.056	995
8×20	※1 1200	0.041	1250	※1 1000	0.041	1250
10×12.5	1000	0.053	1030	680	0.053	1030
10×16	1200	0.038	1430	1000	0.038	1430
10×20	1500	0.023	1820	1200	0.023	1820
10×20	2200	0.023	1820	1500	0.023	1820
10×23	※3 2200	0.022	2150	※3 1500	0.022	2150
12.5×20	3300	0.021	2360	2200	0.021	2360
12.5×25	3900	0.018	2770	3300	0.018	2770
12.5×30	4700	0.016	3290	3900	0.016	3290
16×21	5600	0.018	3140	3900	0.018	3140
16×25	6800	0.016	3460	5600	0.016	3460

	16			25		
	Capacitance	Impedance and ESR (ΩMAX.)	Ripple current (mArms)	Capacitance	Impedance and ESR (ΩMAX.)	Ripple current (mArms)
	(μF)	(20°C/100kHz)	(105°C/100kHz)	(μF)	(20°C/100kHz)	(105°C/100kHz)
5×11	56	0.30	250	47	0.30	250
6.3×11	120	0.13	405	100	0.13	405
8×11.5	330	0.072	760	220	0.072	760
8×15	※1 470	0.056	995	330	0.056	995
8×20	※1 680	0.041	1250	※1 470	0.041	1250
10×12.5	470	0.053	1030	※2 330	0.053	1030
10×16	680	0.038	1430	470	0.038	1430
10×20	1000	0.023	1820	680	0.023	1820
10×20	1200	0.023	1820	820	0.023	1820
10×23	※3 1200	0.022	2150	※3 820	0.022	2150
12.5×20	1500	0.021	2360	1000	0.021	2360
12.5×25	2200	0.018	2770	1500	0.018	2770
12.5×30	2700	0.016	3290	1800	0.016	3290
16×21	※2 2700	0.018	3140	※2 1800	0.018	3140
16×25	3900	0.016	3460	2700	0.016	3460

	35			50		
	Capacitance	Impedance and ESR (ΩMAX.)	Ripple current (mArms)	Capacitance	Impedance and ESR (ΩMAX.)	Ripple current (mArms)
	(μF)	(20°C/100kHz)	(105°C/100kHz)	(μF)	(20°C/100kHz)	(105°C/100kHz)
5×11	33	0.30	250	22	0.34	238
6.3×11	56	0.13	405	47	0.14	385
8×12.5	※3 150	0.072	760	100	0.074	724
8×15	220	0.056	995	120	0.061	950
8×20	※1 270	0.041	1250	180	0.046	1190
10×12.5	※2 220	0.053	1030	150	0.061	979
10×16	330	0.038	1430	220	0.042	1370
10×20	470	0.023	1820	270	0.030	1580
10×23	※3 560	0.022	2150	330	0.028	1870
12.5×20	680	0.021	2360	470	0.027	2050
12.5×25	1000	0.018	2770	560	0.023	2410
12.5×30	1200	0.016	3290	680	0.021	2860
16×21	※2 1200	0.018	3140	820	0.023	2730
16×25	1800	0.016	3460	1000	0.021	3010

Model No.

10MV1000WX

※1 10MV1000WXL

※2 25MV330WXS

※3 35MV560WXV

※1 ; Series symbol is WXL

※2 ; Series symbol is WXS

※3 ; Series symbol is WXV

Capacitance symbol
Rated voltage

Capacitance symbol
Rated voltage

Capacitance symbol
Rated voltage

Capacitance symbol
Rated voltage