

## MV-WX Series Super low impedance • ESR

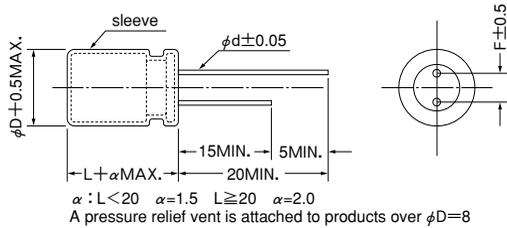


MV-WX series is super low impedance and high ripple current at high frequency.  
 MV-WX series reduced high-frequency impedance to 40% as compared with MV-AX series (same size series).

### Specifications

Items	Specifications					
Rated voltage (V)	6.3	10	16	25	35	50
Operating temperature range (°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 <sub>-25°C</sub> /Z <sub>20°C</sub>	2	2	2	2	2
	Z <sub>-40°C</sub> /Z <sub>20°C</sub>	3	3	3	3	3
High-temperature load rated voltage applied	Test (hrs.)	105°C 4000hrs. (φ D≤6.3, 2000hrs. φ D=8, 3000hrs.)				
	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					

### Dimensions

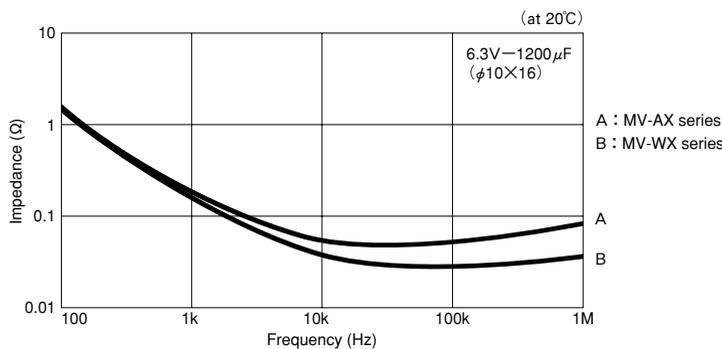


(Unit : mm)

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

\* φ 12.5×30 : φ d=0.8

### Impedance vs. Frequency



## MV-WX Series

WX Ultra low impedance mini ← AX

### Size List, Impedance, Maximum Permissible Ripple Current

Case Size (φ D × Lmm)	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	680※1	0.056	995
8 × 20	1200※1	0.041	1250	1000※1	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
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

Case Size (φ D × Lmm)	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	470※1	0.056	995	330	0.056	995
8 × 20	680※1	0.041	1250	470※1	0.041	1250
10 × 12.5	470	0.053	1030	330※2	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
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

Case Size (φ D × Lmm)	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	150※3	0.072	760	100	0.074	724
8 × 15	220	0.056	995	120	0.061	950
8 × 20	270※1	0.041	1250	180	0.046	1190
10 × 12.5	220※2	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	560※3	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

※1 ; Series symbol is WXL

※2 ; Series symbol is WXS

※3 ; Series symbol is WXV

Model No.

10MV1000WX

Capacitance symbol  
Rated voltage

※1 10MV1000WXL

Capacitance symbol  
Rated voltage

※2 25MV330WXS

Capacitance symbol  
Rated voltage

※3 35MV560WXV

Capacitance symbol  
Rated voltage