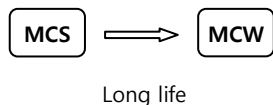




MCW series

Long life RoHS Compliant

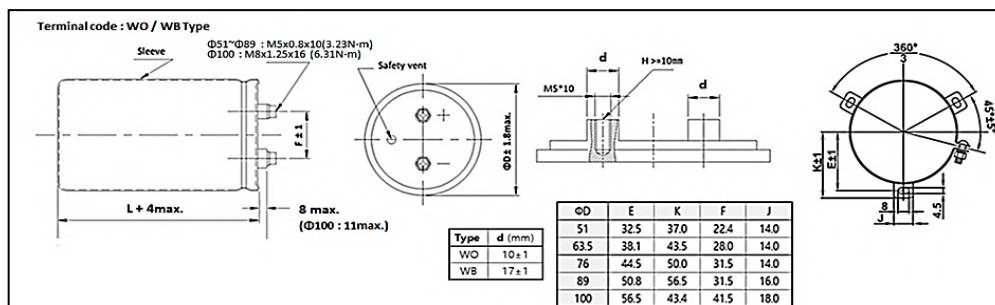
- 85°C 20,000Hrs assured.
- Long life, High ripple property suited for industrial power supplies for the inverter circuit.
- RoHS compliant
- Halogen-free capacitors are also available.



Specifications

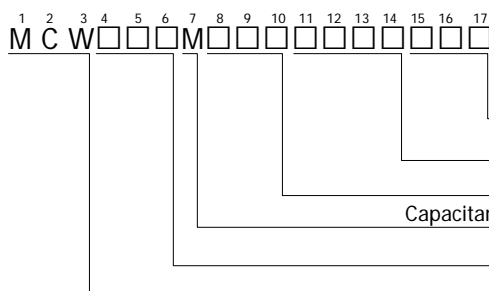
Item	Characteristics				
Rated Voltage Range	350 ~ 500 Vdc				
Operating Temperature Range	-25 ~ +85°C				
Capacitance Tolerance	±20% (M) (at 20°C, 120Hz)				
Leakage Current	After 5 minutes application of rated voltage, leakage current not more than $I=3\sqrt{CV}$ or 5mA whichever is smaller Where, I:Max. Leakage current(µA), C:Nominal capacitance(µF), V:Rated voltage(Vdc) (at 20°C, 5min)				
Dissipation Factor(Tanδ)	The dissipation factor (Tanδ) shall not exceed the values shown in the ratings. (at 20°C, 120Hz)				
Temperature characteristics (Max,impedance ratio)	<table border="1"> <tr> <td>Rated voltage (Vdc)</td> <td>350 ~ 500</td> </tr> <tr> <td>Z(-25°C)/Z(20°C)</td> <td>8</td> </tr> </table> (at 120Hz)	Rated voltage (Vdc)	350 ~ 500	Z(-25°C)/Z(20°C)	8
Rated voltage (Vdc)	350 ~ 500				
Z(-25°C)/Z(20°C)	8				
Load life	The following specifications shall be satisfied when the capacitors are restored to 20°C after the rated voltage is applied for specified life times at 85°C 20,000hrs. (5,000hrs at 85°C for the parts rated at 500V) Capacitance change ≤±20% of the initial value Tan δ ≤ 300% of the initial specified value Leakage current ≤The initial specified value				
Shelf life	The following specifications shall be satisfied when the capacitors are restored to 20°C after exposing them for 1,000 hours at 85°C without voltage applied. The rated voltage shall be applied to the capacitors for a minimum of 30 minutes at least 24 hours and not more than 48 hours before the measurements. Capacitance change ≤±20% of the initial value Tanδ ≤200% of the initial specified value Leakage current ≤The initial specified value				

Dimensions



- Printed white color letter on black sleeve

Code numbering system



Ø51	R
Ø63.5	S
Ø76	T
Ø89	U
Ø100	V



MCW series

Standard Ratings

Note1) Ripple current = Arms/85°C, 120Hz

WV (Vdc)	Cap (uF)	Size ØxL(mm)	Tan δ	Ripple ¹⁾	Code No
350	1,000	51 x 60	0.20	3.5	MCW350□102R60WOR
	1,200	51 x 70	0.20	4.2	MCW350□122R70WOR
	1,500	51 x 80	0.20	4.9	MCW350□152R80WOR
	1,800	51 x 90	0.20	5.6	MCW350□182R90WOR
	2,200	51 x 110	0.20	6.7	MCW350□222R0WOR
	2,700	51 x 130	0.20	8.0	MCW350□272R0WOR
		63.5 x 90	0.20	7.7	MCW350□272S90WOR
	3,300	51 x 150	0.20	9.2	MCW350□332R0WOR
		63.5 x 100	0.20	9.0	MCW350□332S0WOR
	3,900	63.5 x 110	0.20	10.4	MCW350□392S0WOR
		76 x 90	0.20	10.3	MCW350□392T90WOR
	4,700	63.5 x 130	0.20	12.0	MCW350□472S0WOR
		76 x 100	0.20	11.9	MCW350□472T0WOR
	5,600	63.5 x 150	0.20	14.0	MCW350□562S0WOR
		76 x 110	0.20	13.5	MCW350□562T0WOR
	6,800	63.5 x 170	0.20	16.3	MCW350□682S0WOR
		76 x 130	0.20	16.0	MCW350□682T0WOR
	8,200	76 x 150	0.20	18.7	MCW350□822T0WOR
		90 x 130	0.20	18.2	MCW350□822U0WOR
	10,000	76 x 170	0.20	21.8	MCW350□103T0WOR
		90 x 150	0.20	21.3	MCW350□103U0WOR
	12,000	76 x 190	0.20	25.1	MCW350□123T0WOR
		90 x 150	0.20	24.8	MCW350□123U0WOR
	15,000	90 x 190	0.20	29.0	MCW350□153U0WOR
	18,000	90 x 220	0.20	32.4	MCW350□183U0WOR
	22,000	100 x 220	0.20	38.0	MCW350□223V0WOR
	27,000	100 x 250	0.20	42.0	MCW350□273V0WOR
400	1,000	51 x 70	0.20	3.8	MCW400□102R70WOR
	1,200	51 x 80	0.20	4.5	MCW400□122R80WOR
	1,500	51 x 100	0.20	5.3	MCW400□152R0WOR
	1,800	51 x 110	0.20	6.0	MCW400□182R0WOR
	2,200	51 x 130	0.20	7.0	MCW400□222R0WOR
		63.5 x 90	0.20	6.8	MCW400□222S90WOR
	2,700	63.5 x 110	0.20	8.2	MCW400□272S0WOR
		76 x 90	0.20	8.1	MCW400□272T90WOR
	3,300	63.5 x 130	0.20	9.6	MCW400□332S0WOR
		76 x 100	0.20	9.3	MCW400□332T0WOR
	3,900	63.5 x 150	0.20	11.0	MCW400□392S0WOR
		76 x 100	0.20	10.5	MCW400□392T0WOR
	4,700	63.5 x 170	0.20	12.6	MCW400□472S0WOR
		76 x 130	0.20	12.3	MCW400□472T0WOR
	5,600	63.5 x 190	0.20	14.7	MCW400□562S0WOR
		76 x 150	0.20	14.3	MCW400□562T0WOR
	6,800	76 x 170	0.20	16.7	MCW400□682T0WOR
		90 x 130	0.20	16.3	MCW400□682U0WOR
	8,200	76 x 190	0.20	19.3	MCW400□822T0WOR
		90 x 150	0.20	19.0	MCW400□822U0WOR
	10,000	76 x 220	0.20	22.7	MCW400□103T0WOR
		90 x 170	0.20	22.2	MCW400□103U0WOR
	12,000	90 x 190	0.20	25.5	MCW400□123U0WOR
	15,000	100 x 190	0.20	29.6	MCW400□153V0WOR
	18,000	100 x 220	0.20	33.0	MCW400□183V0WOR
	22,000	100 x 250	0.20	41.4	MCW400□223V0WOR

WV (Vdc)	Cap (uF)	Size ØxL(mm)	Tan δ	Ripple ¹⁾	Code No	
450	1,000	51 x 80	0.20	4.0	MCW450□102R80WOR	
	1,200	51 x 100	0.20	4.7	MCW450□122R0WOR	
	1,500	51 x 110	0.20	5.4	MCW450□152R0WOR	
	1,800	51 x 130	0.20	6.4	MCW450□182R0WOR	
		63.5 x 90	0.20	6.1	MCW450□182S90WOR	
	2,200	63.5 x 110	0.20	7.2	MCW450□222S0WOR	
		76 x 90	0.20	7.1	MCW450□222T90WOR	
	2,700	63.5 x 130	0.20	8.6	MCW450□272S0WOR	
		76 x 100	0.20	8.3	MCW450□272T0WOR	
	3,300	63.5 x 150	0.20	10.0	MCW450□332S0WOR	
		76 x 110	0.20	9.7	MCW450□332T0WOR	
	3,900	63.5 x 170	0.20	11.4	MCW450□392S0WOR	
		76 x 130	0.20	11.2	MCW450□392T0WOR	
	4,700	63.5 x 190	0.20	13.0	MCW450□472S0WOR	
		76 x 150	0.20	12.8	MCW450□472T0WOR	
	5,600	76 x 170	0.20	15.4	MCW450□562T0WOR	
		90 x 150	0.20	15.3	MCW450□562U0WOR	
	6,800	76 x 190	0.20	17.3	MCW450□682T0WOR	
		90 x 150	0.20	17.1	MCW450□682U0WOR	
	8,200	76 x 220	0.20	20.3	MCW450□822T0WOR	
		90 x 170	0.20	19.8	MCW450□822U0WOR	
	10,000	90 x 190	0.20	23.0	MCW450□103U0WOR	
	12,000	90 x 220	0.20	26.9	MCW450□123U0WOR	
	15,000	100 x 220	0.20	31.1	MCW450□153V0WOR	
	18,000	100 x 250	0.20	37.0	MCW450□183V0WOR	
	500	1,000	51 x 110	0.20	4.2	MCW500□102R0WOR
		1,200	63.5 x 90	0.20	4.8	MCW500□122S90WOR
1,500		63.5 x 90	0.20	5.5	MCW500□152S90WOR	
1,800		63.5 x 110	0.20	6.5	MCW500□182S0WOR	
2,200		63.5 x 130	0.20	7.7	MCW500□222S0WOR	
2,700		76 x 110	0.20	8.8	MCW500□272T0WOR	
3,300		76 x 130	0.20	10.4	MCW500□332T0WOR	
3,900		76 x 150	0.20	12.1	MCW500□392T0WOR	
4,700		90 x 130	0.20	13.7	MCW500□472U0WOR	
5,600		90 x 150	0.20	15.9	MCW500□562U0WOR	
6,800		90 x 170	0.20	18.5	MCW500□682U0WOR	
8,200		90 x 190	0.20	21.4	MCW500□822U0WOR	
10,000	100 x 190	0.20	23.8	MCW500□103V0WOR		
12,000	100 x 220	0.20	27.8	MCW500□123V0WOR		

Rated ripple current multipliers

Frequency (Hz)	50	60	120	1K	10K
Coefficient	0.80	0.82	1.00	1.35	1.40