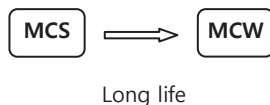


MCW series

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> <p>(at 120Hz)</p>	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

Terminal code : WO Type

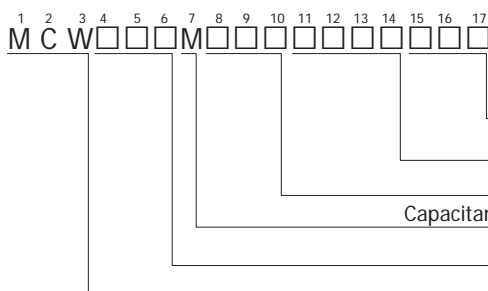
φ D=φ 51 ~ φ 100

φ D	E	K	F	J
50	32.5	37.0	22.4	14.0
63.5	38.1	43.5	28.0	14.0
76	44.5	50.0	31.5	14.0
89	50.8	56.5	31.5	16.0
100	56.5	43.4	41.5	18.0

φ 51~φ 76 : G=6
 φ 89 : G=4
 φ 100 : G=10

- Printed white color letter on black sleeve

Code numbering system



051	R
063.5	S
076	T
089	U
0100	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□102R060WOR
	1,200	51 x 70	0.20	4.2	MCW350□122R070WOR
	1,500	51 x 80	0.20	4.9	MCW350□152R080WOR
	1,800	51 x 90	0.20	5.6	MCW350□182R090WOR
	2,200	51 x 110	0.20	6.7	MCW350□222R110WOR
	2,700	51 x 130	0.20	8.0	MCW350□272R130WOR
		63.5 x 90	0.20	7.7	MCW350□272S090WOR
	3,300	51 x 150	0.20	9.2	MCW350□332R150WOR
		63.5 x 100	0.20	9.0	MCW350□332S100WOR
	3,900	63.5 x 110	0.20	10.4	MCW350□392S110WOR
		76 x 90	0.20	10.3	MCW350□392T090WOR
	4,700	63.5 x 130	0.20	12.0	MCW350□472S130WOR
		76 x 100	0.20	11.9	MCW350□472T100WOR
	5,600	63.5 x 150	0.20	14.0	MCW350□562S150WOR
		76 x 110	0.20	13.5	MCW350□562T110WOR
	6,800	63.5 x 170	0.20	16.3	MCW350□682S170WOR
		76 x 130	0.20	16.0	MCW350□682T130WOR
	8,200	76 x 150	0.20	18.7	MCW350□822T150WOR
		90 x 130	0.20	18.2	MCW350□822U130WOR
	10,000	76 x 170	0.20	21.8	MCW350□103T170WOR
90 x 150		0.20	21.3	MCW350□103U150WOR	
12,000	76 x 190	0.20	25.1	MCW350□123T190WOR	
	90 x 150	0.20	24.8	MCW350□123U150WOR	
15,000	90 x 190	0.20	29.0	MCW350□153U190WOR	
18,000	90 x 220	0.20	32.4	MCW350□183U220WOR	
22,000	100 x 220	0.20	38.0	MCW350□223V220WOR	
27,000	100 x 250	0.20	42.0	MCW350□273V250WOR	
400	1,000	51 x 70	0.20	3.8	MCW400□102R070WOR
	1,200	51 x 80	0.20	4.5	MCW400□122R080WOR
	1,500	51 x 100	0.20	5.3	MCW400□152R100WOR
	1,800	51 x 110	0.20	6.0	MCW400□182R110WOR
	2,200	51 x 130	0.20	7.0	MCW400□222R130WOR
		63.5 x 90	0.20	6.8	MCW400□222S090WOR
	2,700	63.5 x 110	0.20	8.2	MCW400□272S110WOR
		76 x 90	0.20	8.1	MCW400□272T090WOR
	3,300	63.5 x 130	0.20	9.6	MCW400□332S130WOR
		76 x 100	0.20	9.3	MCW400□332T100WOR
	3,900	63.5 x 150	0.20	11.0	MCW400□392S150WOR
		76 x 100	0.20	10.5	MCW400□392T100WOR
	4,700	63.5 x 170	0.20	12.6	MCW400□472S170WOR
		76 x 130	0.20	12.3	MCW400□472T130WOR
	5,600	63.5 x 190	0.20	14.7	MCW400□562S190WOR
		76 x 150	0.20	14.3	MCW400□562T150WOR
	6,800	76 x 170	0.20	16.7	MCW400□682T170WOR
		90 x 130	0.20	16.3	MCW400□682U130WOR
	8,200	76 x 190	0.20	19.3	MCW400□822T190WOR
		90 x 150	0.20	19.0	MCW400□822U150WOR
10,000	76 x 220	0.20	22.7	MCW400□103T220WOR	
	90 x 170	0.20	22.2	MCW400□103U170WOR	
12,000	90 x 190	0.20	25.5	MCW400□123U190WOR	
15,000	100 x 190	0.20	29.6	MCW400□153V190WOR	
18,000	100 x 220	0.20	33.0	MCW400□183V220WOR	
22,000	100 x 250	0.20	41.4	MCW400□223V250WOR	

WV (Vdc)	Cap (uF)	Size ØxL(mm)	Tan δ	Ripple ¹⁾	Code No
450	1,000	51 x 80	0.20	4.0	MCW450□102R080WOR
	1,200	51 x 100	0.20	4.7	MCW450□122R100WOR
	1,500	51 x 110	0.20	5.4	MCW450□152R110WOR
	1,800	51 x 130	0.20	6.4	MCW450□182R130WOR
		63.5 x 90	0.20	6.1	MCW450□182S090WOR
	2,200	63.5 x 110	0.20	7.2	MCW450□222S110WOR
		76 x 90	0.20	7.1	MCW450□222T090WOR
	2,700	63.5 x 130	0.20	8.6	MCW450□272S130WOR
		76 x 100	0.20	8.3	MCW450□272T100WOR
	3,300	63.5 x 150	0.20	10.0	MCW450□332S150WOR
		76 x 110	0.20	9.7	MCW450□332T110WOR
	3,900	63.5 x 170	0.20	11.4	MCW450□392S170WOR
		76 x 130	0.20	11.2	MCW450□392T130WOR
	4,700	63.5 x 190	0.20	13.0	MCW450□472S190WOR
		76 x 150	0.20	12.8	MCW450□472T150WOR
	5,600	76 x 170	0.20	15.4	MCW450□562T170WOR
		90 x 150	0.20	15.3	MCW450□562U150WOR
	6,800	76 x 190	0.20	17.3	MCW450□682T190WOR
		90 x 150	0.20	17.1	MCW450□682U150WOR
	8,200	76 x 220	0.20	20.3	MCW450□822T220WOR
90 x 170		0.20	19.8	MCW450□822U170WOR	
10,000	90 x 190	0.20	23.0	MCW450□103U190WOR	
12,000	90 x 220	0.20	26.9	MCW450□123U220WOR	
15,000	100 x 220	0.20	31.1	MCW450□153V220WOR	
18,000	100 x 250	0.20	37.0	MCW450□183V250WOR	
500	1,000	51 x 110	0.20	4.2	MCW500□102R110WOR
	1,200	63.5 x 90	0.20	4.8	MCW500□122S090WOR
	1,500	63.5 x 90	0.20	5.5	MCW500□152S090WOR
	1,800	63.5 x 110	0.20	6.5	MCW500□182S110WOR
	2,200	63.5 x 130	0.20	7.7	MCW500□222S130WOR
	2,700	76 x 110	0.20	8.8	MCW500□272T110WOR
	3,300	76 x 130	0.20	10.4	MCW500□332T130WOR
	3,900	76 x 150	0.20	12.1	MCW500□392T150WOR
	4,700	90 x 130	0.20	13.7	MCW500□472U130WOR
	5,600	90 x 150	0.20	15.9	MCW500□562U150WOR
	6,800	90 x 170	0.20	18.5	MCW500□682U170WOR
	8,200	90 x 190	0.20	21.4	MCW500□822U190WOR
10,000	100 x 190	0.20	23.8	MCW500□103V190WOR	
12,000	100 x 220	0.20	27.8	MCW500□123V220WOR	

Rated ripple current multipliers

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