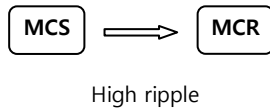


MCR series

High ripple RoHS Compliant

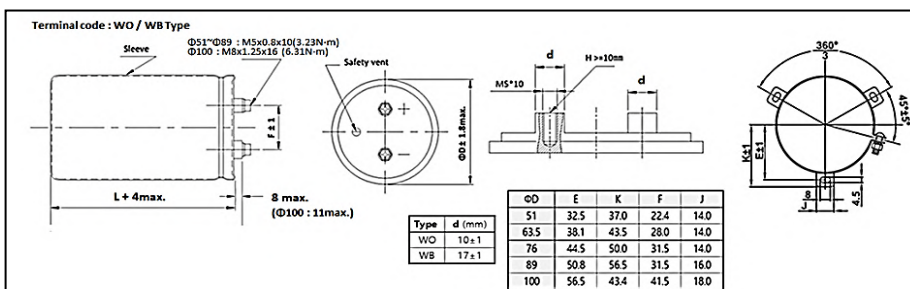
- 85 °C 1,000Hrs assured.
- High ripple properties suited for use at voltage fluctuating area
- Suited for high frequency regenerative voltage for AC servomotor, general inverter.
- RoHS compliant
- Halogen-free capacitors are also available.



Specifications

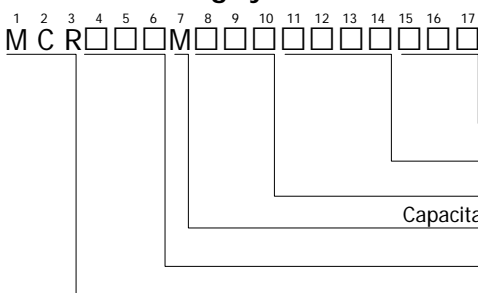
Item	Characteristics	
Rated Voltage Range	350 ~ 450 Vdc	
Operating Temperature Range	-25 ~ +85 °C	
Capacitance Tolerance	±20% (M)	(at 20°C, 120Hz)
Leakage Current	After 5 minutes application of rated voltage, leakage current not more than $I=3\sqrt{CV}$ or 5mA whichever is smaller Where, I:Max. Leakage current(μA), C:Nominal capacitance(μF), V:Rated voltage(Vdc)	
Dissipation Factor(Tanδ)	The dissipation factor (Tanδ) shall not exceed the values shown in the ratings.	
Temperature characteristics (Max,impedance ratio)	Rated voltage (Vdc)	350 ~ 450
	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 5,000hrs. Capacitance change ≤±20%of the initial value Tan δ ≤200% 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



Ø35	P
Ø51	R
Ø63.5	S
Ø76	T
Ø89	U
Ø100	V

MCR series

Standard Ratings

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

WV (Vdc)	Cap (uF)	Size ØxL(mm)	Tan δ	Ripple ¹⁾	Code No
350	820	35 x 80	0.15	3.3	MCR350□821P80WOR
	1,000	35 x 100	0.15	4.3	MCR350□102PA0WOR
	1,800	51 x 80	0.15	7.2	MCR350□182R80WOR
	2,200	51 x 100	0.15	9.1	MCR350□222RA0WOR
	2,700	51 x 110	0.15	10.8	MCR350□272RB0WOR
		63.5 x 80	0.15	10.6	MCR350□272S80WOR
	3,300	51 x 130	0.15	12.4	MCR350□332RD0WOR
		63.5 x 90	0.15	11.9	MCR350□332S90WOR
	3,900	63.5 x 110	0.15	14.6	MCR350□392SB0WOR
		76 x 80	0.15	14.1	MCR350□392T80WOR
	4,700	63.5 x 130	0.15	17.0	MCR350□472SD0WOR
		76 x 90	0.15	16.4	MCR350□472T90WOR
	5,600	63.5 x 150	0.15	20.4	MCR350□562SF0WOR
		76 x 110	0.15	19.7	MCR350□562TB0WOR
	6,800	63.5 x 170	0.15	23.5	MCR350□682SH0WOR
		76 x 130	0.15	22.9	MCR350□682TD0WOR
	8,200	63.5 x 190	0.15	27.1	MCR350□822SJ0WOR
		76 x 150	0.15	26.4	MCR350□822TF0WOR
	10,000	76 x 170	0.15	31.1	MCR350□103TH0WOR
		90 x 130	0.15	30.2	MCR350□103UD0WOR
12,000	76 x 190	0.15	35.7	MCR350□123TJ0WOR	
15,000	90 x 190	0.15	40.5	MCR350□153UJ0WOR	
400	680	35 x 80	0.15	3.2	MCR400□681P80WOR
	820	35 x 100	0.15	4.1	MCR400□821PA0WOR
	1,500	51 x 80	0.15	7.5	MCR400□152R80WOR
	1,800	51 x 90	0.15	9.1	MCR400□182R90WOR
	2,200	51 x 110	0.15	10.4	MCR400□222RB0WOR
	2,700	63.5 x 90	0.15	11.5	MCR400□272S90WOR
	3,300	51 x 150	0.15	13.7	MCR400□332RF0WOR
		63.5 x 110	0.15	13.2	MCR400□332SB0WOR
	3,900	63.5 x 130	0.15	16.0	MCR400□392SD0WOR
		76 x 90	0.15	15.3	MCR400□392T90WOR
	4,700	63.5 x 150	0.15	18.7	MCR400□472SF0WOR
		76 x 110	0.15	18.3	MCR400□472TB0WOR
	5,600	63.5 x 170	0.15	22.0	MCR400□562SH0WOR
		76 x 130	0.15	21.4	MCR400□562TD0WOR
	6,800	76 x 150	0.15	25.4	MCR400□682TF0WOR
	8,200	76 x 170	0.15	28.6	MCR400□822TH0WOR
		90 x 130	0.15	27.8	MCR400□822UD0WOR
	10,000	90 x 150	0.15	32.7	MCR400□103UF0WOR
	12,000	90 x 170	0.15	37.6	MCR400□123UH0WOR
	15,000	90 x 220	0.15	43.0	MCR400□153UM0WOR

WV (Vdc)	Cap (uF)	Size ØxL(mm)	Tan δ	Ripple ¹⁾	Code No
450	680	35 x 100	0.15	3.5	MCR450□681PA0WOR
	820	35 x 110	0.15	3.9	MCR450□821PB0WOR
	1,200	51 x 80	0.15	5.2	MCR450□122R80WOR
	1,500	51 x 100	0.15	6.3	MCR450□152RA0WOR
	1,800	51 x 110	0.15	7.4	MCR450□182RB0WOR
		63.5 x 80	0.15	7.9	MCR450□182S80WOR
	2,200	51 x 130	0.15	8.7	MCR450□222RD0WOR
		63.5 x 100	0.15	8.6	MCR450□222SA0WOR
	2,700	51 x 150	0.15	10.2	MCR450□272RF0WOR
		76 x 80	0.15	10.0	MCR450□272T80WOR
	3,300	63.5 x 130	0.15	12.4	MCR450□332SD0WOR
		76 x 100	0.15	11.8	MCR450□332TA0WOR
	3,900	63.5 x 150	0.15	13.7	MCR450□392SF0WOR
		76 x 110	0.15	14.0	MCR450□392TB0WOR
	4,700	90 x 90	0.15	13.6	MCR450□392U90WOR
		63.5 x 145	0.15	16.5	MCR450□472SE5WOR
	4,700	76 x 110	0.15	16.3	MCR450□472TB0WOR
		90 x 110	0.15	15.8	MCR450□472UB0WOR
	5,600	63.5 x 190	0.15	19.4	MCR450□562SJ0WOR
		90 x 130	0.15	19.1	MCR450□562UD0WOR
6,800	76 x 170	0.15	23.2	MCR450□682TH0WOR	
8,200	90 x 150	0.15	26.0	MCR450□822UF0WOR	
10,000	90 x 190	0.15	31.3	MCR450□103UJ0WOR	
12,000	90 x 220	0.15	35.5	MCR450□123UM0WOR	

Rated ripple current multipliers

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