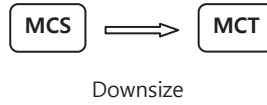


# MCT series

Small size Long life RoHS Compliant

- 85°C 5,000Hrs assured.
- Long life, High ripple
- 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 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

Terminal code : WO Type

φ D=φ 51 ~ φ 100

-φ 89=M5x0.8x10 (3.23N.m)  
 φ 100=M8x1.25x16 (6.31N.m)

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

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17

M C T □ □ M □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □

Terminal type

Size (76X100: T100)

Capacitance

Capacitance tolerance(M: ±20%, K: ±10%, V : -10~20%)

Working voltage(ex. 160V→160)

Series name

035	P
051	R
063.5	S
076	T
089	U
0100	V

MCT series

Standard Ratings

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

WV (Vdc)	Cap (uF)	Size ØxL(mm)	Tan δ	Ripple <sup>1)</sup>	Code No
350	1,000	51 x 60	0.20	4.8	MCT350□102R060WOR
	1,200	51 x 70	0.20	5.5	MCT350□122R070WOR
	1,500	51 x 75	0.20	6.5	MCT350□152R075WOR
	1,800	51 x 90	0.20	7.1	MCT350□182R090WOR
	2,200	51 x 95	0.20	8.2	MCT350□222R095WOR
	2,700	51 x 105	0.20	9.3	MCT350□272R105WOR
		63.5 x 85	0.20	9.9	MCT350□272S085WOR
	3,300	63.5 x 95	0.20	11.8	MCT350□332S095WOR
	3,900	63.5 x 100	0.20	12.8	MCT350□392S100WOR
		76 x 85	0.20	13.0	MCT350□392T085WOR
	4,700	63.5 x 115	0.20	13.8	MCT350□472S115WOR
		76 x 90	0.20	14.2	MCT350□472T090WOR
	5,600	63.5 x 130	0.20	17.3	MCT350□562S130WOR
		76 x 100	0.20	16.8	MCT350□562T100WOR
	6,800	63.5 x 155	0.20	19.6	MCT350□682S155WOR
		76 x 115	0.20	19.0	MCT350□682T115WOR
	8,200	63.5 x 190	0.20	22.6	MCT350□822S190WOR
		76 x 130	0.20	21.0	MCT350□822T130WOR
	10,000	90 x 120	0.20	24.0	MCT350□822U120WOR
		76 x 155	0.20	25.0	MCT350□103T155WOR
12,000	90 x 140	0.20	25.9	MCT350□103U140WOR	
	90 x 150	0.20	28.0	MCT350□123U150WOR	
400	1,000	51 x 65	0.20	5.0	MCT400□102R065WOR
	1,200	51 x 75	0.20	5.8	MCT400□122R075WOR
	1,500	51 x 90	0.20	6.8	MCT400□152R090WOR
	1,800	51 x 95	0.20	7.3	MCT400□182R095WOR
	2,200	51 x 105	0.20	8.8	MCT400□222R105WOR
		63.5 x 85	0.20	8.9	MCT400□222S085WOR
	2,700	51 x 115	0.20	10.0	MCT400□272R115WOR
		63.5 x 90	0.20	10.6	MCT400□272S090WOR
	3,300	76 x 75	0.20	10.5	MCT400□272T075WOR
		63.5 x 95	0.20	11.8	MCT400□332S095WOR
	3,900	76 x 90	0.20	12.0	MCT400□332T090WOR
		63.5 x 115	0.20	12.8	MCT400□392S115WOR
	4,700	76 x 95	0.20	13.0	MCT400□392T095WOR
		63.5 x 130	0.20	14.8	MCT400□472S130WOR
	5,600	76 x 110	0.20	15.0	MCT400□472T100WOR
		63.5 x 155	0.20	17.0	MCT400□562S155WOR
	6,800	76 x 115	0.20	16.5	MCT400□562T115WOR
		63.5 x 190	0.20	20.5	MCT400□682S190WOR
	8,200	76 x 130	0.20	19.2	MCT400□682T130WOR
		90 x 120	0.20	20.5	MCT400□682U120WOR
10,000	76 x 155	0.20	22.5	MCT400□822T155WOR	
	90 x 120	0.20	23.0	MCT400□822U120WOR	
12,000	76 x 170	0.20	26.1	MCT400□103T170WOR	
	90 x 130	0.20	24.2	MCT400□103U130WOR	
15,000	90 x 155	0.20	28.5	MCT400□123U155WOR	
	90 x 190	0.20	34.8	MCT400□153U190WOR	
18,000	90 x 235	0.20	41.2	MCT400□183U235WOR	
450	1,000	51 x 75	0.20	5.2	MCT450□102R075WOR
	1,200	51 x 85	0.20	6.3	MCT450□122R085WOR
	1,500	51 x 95	0.20	6.4	MCT450□152R095WOR
	1,800	51 x 105	0.20	7.6	MCT450□182R105WOR
		63.5 x 85	0.20	7.6	MCT450□182S085WOR
	2,200	63.5 x 90	0.20	9.0	MCT450□222S090WOR
		76 x 85	0.20	9.4	MCT450□222T085WOR
	2,700	63.5 x 95	0.20	10.5	MCT450□272S095WOR
		76 x 90	0.20	11.0	MCT450□272T090WOR
	3,300	63.5 x 115	0.20	12.1	MCT450□332S115WOR
76 x 100		0.20	12.8	MCT450□332T100WOR	

WV (Vdc)	Cap (uF)	Size ØxL(mm)	Tan δ	Ripple <sup>1)</sup>	Code No
450	3,900	76 x 110	0.20	14.2	MCT450□392T110WOR
	4,700	63.5 x 155	0.20	15.6	MCT450□472S155WOR
		76 x 115	0.20	15.1	MCT450□472T115WOR
	5,600	63.5 x 190	0.20	18.5	MCT450□562S190WOR
		90 x 120	0.20	18.4	MCT450□562U120WOR
	6,800	76 x 155	0.20	20.7	MCT450□682T155WOR
		90 x 125	0.20	20.0	MCT450□682U125WOR
	8,200	76 x 190	0.20	19.1	MCT450□822T190WOR
	12,000	90 x 190	0.20	29.5	MCT450□123U190WOR
	15,000	90 x 235	0.20	35.6	MCT450□153U235WOR
500	1,000	51 x 100	0.20	4.2	MCT500□102R100WOR
		63.5 x 80	0.20	4.2	MCT500□102S080WOR
	1,200	51 x 115	0.20	6.2	MCT500□122R115WOR
		63.5 x 85	0.20	6.3	MCT500□122S085WOR
	1,500	51 x 130	0.20	7.3	MCT500□152R130WOR
		63.5 x 90	0.20	7.1	MCT500□152S090WOR
	1,800	63.5 x 105	0.20	8.3	MCT500□182S105WOR
	2,200	63.5 x 120	0.20	9.6	MCT500□222S120WOR
	2,700	76 x 110	0.20	10.7	MCT500□272T110WOR
	3,300	76 x 115	0.20	12.4	MCT500□332T115WOR
		76 x 150	0.20	14.4	MCT500□392T150WOR
	3,900	90 x 120	0.20	14.4	MCT500□392U120WOR
		76 x 170	0.20	16.5	MCT500□472T170WOR
	4,700	90 x 130	0.20	15.8	MCT500□472U130WOR
		76 x 190	0.20	19.0	MCT500□562T190WOR
5,600	90 x 150	0.20	18.6	MCT500□562U150WOR	
	90 x 170	0.20	21.2	MCT500□682U170WOR	
8,200	90 x 190	0.20	24.5	MCT500□822U190WOR	
10,000	90 x 235	0.20	29.3	MCT500□103U235WOR	

Rated ripple current multipliers

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