

MCI series

RoHS Compliant

- 85°C 2,000Hrs assured.
- Suited for equipment downsizing
- RoHS compliant
- Halogen-free capacitors are also available.



Higher capacitance



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) (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 ~ 450</td> </tr> <tr> <td>Z(-25°C)/Z(20°C)</td> <td>8</td> </tr> </table> <p>(at 120Hz)</p>	Rated voltage (Vdc)	350 ~ 450	Z(-25°C)/Z(20°C)	8
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

Terminal code : WO Type

φ D=φ 51 ~ φ 100

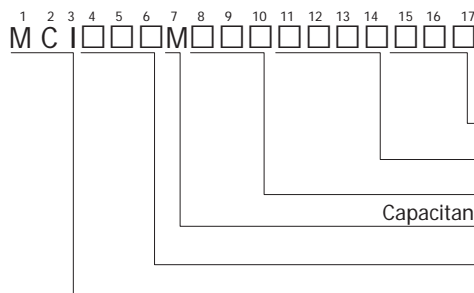
φ D	E	K	F	J
50	32.5	37.0	22.4	14.0
63.5	38.1	43.5	28.0	14.0
76	44.5	50.0	31.5	14.0
89	50.8	56.5	31.5	16.0
100	56.5	43.4	41.5	18.0

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

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

- Printed white color letter on black sleeve

Code numbering system



Terminal type
 Size (76X100: T100)
 Capacitance
 Capacitance tolerance(M: ±20%, K: ±10%, V : -10~20%)
 Working voltage(ex. 160V→160)
 Series name

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



MCI series

Standard Ratings

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

WV (Vdc)	Cap (uF)	Size ØxL(mm)	Tan δ	Ripple ¹⁾	Code No
350	1,500	51 x 60	0.25	9.3	MCI350□152R060WOR
	1,800	51 x 70	0.25	10.0	MCI350□182R070WOR
	2,200	51 x 80	0.25	11.1	MCI350□222R080WOR
		51 x 90	0.25	12.2	MCI350□272R090WOR
	2,700	63.5 x 65	0.25	11.8	MCI350□272S065WOR
		51 x 105	0.25	13.8	MCI350□332R105WOR
	3,300	63.5 x 75	0.25	13.0	MCI350□332S075WOR
		51 x 130	0.25	14.6	MCI350□392R130WOR
	3,900	63.5 x 80	0.25	14.1	MCI350□392S080WOR
		51 x 140	0.25	15.9	MCI350□472R140WOR
	4,700	63.5 x 90	0.25	15.8	MCI350□472S090WOR
		76 x 70	0.25	15.7	MCI350□472T070WOR
	5,600	63.5 x 100	0.25	17.1	MCI350□562S100WOR
		76 x 85	0.25	17.0	MCI350□562T085WOR
	6,800	63.5 x 125	0.25	19.1	MCI350□682S125WOR
		76 x 95	0.25	18.8	MCI350□682T095WOR
	8,200	63.5 x 145	0.25	20.7	MCI350□822S145WOR
		76 x 105	0.25	20.2	MCI350□822T105WOR
	10,000	63.5 x 165	0.25	23.2	MCI350□103S165WOR
		76 x 125	0.25	23.5	MCI350□103T125WOR
	12,000	90 x 95	0.25	23.5	MCI350□103U095WOR
		76 x 150	0.25	24.0	MCI350□123T150WOR
15,000	90 x 110	0.25	24.1	MCI350□123U110WOR	
	76 x 190	0.25	28.0	MCI350□153T190WOR	
18,000	90 x 140	0.25	29.2	MCI350□153U140WOR	
	76 x 210	0.25	30.2	MCI350□183T210WOR	
22,000	90 x 155	0.25	31.1	MCI350□183U155WOR	
	90 x 190	0.25	35.4	MCI350□223U190WOR	
400	1,000	51 x 60	0.25	6.4	MCI400□102R060WOR
	1,200	51 x 65	0.25	7.1	MCI400□122R065WOR
	1,500	51 x 75	0.25	8.1	MCI400□152R075WOR
	1,800	51 x 85	0.25	8.7	MCI400□182R085WOR
		63.5 x 65	0.25	9.1	MCI400□182S065WOR
	2,200	51 x 95	0.25	9.6	MCI400□222R095WOR
		63.5 x 75	0.25	10.1	MCI400□222S075WOR
	2,700	51 x 115	0.25	10.5	MCI400□272R115WOR
		63.5 x 85	0.25	11.6	MCI400□272S085WOR
	3,300	51 x 145	0.25	12.4	MCI400□332R145WOR
		63.5 x 95	0.25	13.0	MCI400□332S095WOR
	3,900	51 x 170	0.25	13.8	MCI400□392R170WOR
		63.5 x 105	0.25	14.2	MCI400□392S105WOR
	4,700	76 x 85	0.25	14.6	MCI400□392T085WOR
		63.5 x 125	0.25	16.1	MCI400□472S125WOR
	5,600	76 x 95	0.25	16.2	MCI400□472T095WOR
		63.5 x 140	0.25	16.9	MCI400□562S140WOR
	6,800	76 x 105	0.25	17.6	MCI400□562T105WOR
		63.5 x 165	0.25	19.1	MCI400□682S165WOR
	8,200	63.5 x 210	0.25	21.2	MCI400□822S210WOR
		76 x 150	0.25	21.2	MCI400□822T150WOR
	10,000	90 x 120	0.25	21.0	MCI400□822U120WOR
76 x 170		0.25	22.4	MCI400□103T170WOR	
12,000	90 x 130	0.25	22.0	MCI400□103U130WOR	
	76 x 220	0.25	26.0	MCI400□123T220WOR	
15,000	90 x 155	0.25	26.0	MCI400□123U155WOR	
	90 x 190	0.25	28.3	MCI400□153U190WOR	
18,000	90 x 230	0.25	30.6	MCI400□183U230WOR	

WV (Vdc)	Cap (uF)	Size ØxL(mm)	Tan δ	Ripple ¹⁾	Code No
450	820	51 x 60	0.25	4.9	MCI450□821R060WOR
	1,000	51 x 70	0.25	5.5	MCI450□102R070WOR
	1,200	51 x 75	0.25	6.0	MCI450□122R075WOR
		51 x 85	0.25	6.8	MCI450□152R085WOR
	1,500	63.5 x 65	0.25	7.9	MCI450□152S065WOR
		51 x 95	0.25	7.9	MCI450□182R095WOR
	1,800	63.5 x 75	0.25	8.9	MCI450□182S075WOR
		51 x 125	0.25	9.2	MCI450□222R125WOR
	2,200	63.5 x 85	0.25	9.8	MCI450□222S085WOR
		51 x 145	0.25	10.3	MCI450□272R145WOR
	2,700	76 x 90	0.25	10.5	MCI450□272T090WOR
		51 x 170	0.25	11.1	MCI450□332R170WOR
	3,300	63.5 x 105	0.25	12.0	MCI450□332S105WOR
		76 x 85	0.25	12.6	MCI450□332T085WOR
	3,900	63.5 x 125	0.25	13.5	MCI450□392S125WOR
		76 x 95	0.25	14.0	MCI450□392T095WOR
	4,700	63.5 x 145	0.25	15.2	MCI450□472S145WOR
		76 x 105	0.25	15.6	MCI450□472T105WOR
	5,600	63.5 x 165	0.25	17.0	MCI450□562S165WOR
		76 x 125	0.25	17.6	MCI450□562T125WOR
	6,800	63.5 x 210	0.25	19.1	MCI450□682S210WOR
		76 x 150	0.25	19.6	MCI450□682T150WOR
8,200	90 x 120	0.25	19.5	MCI450□682U120WOR	
	76 x 170	0.25	20.1	MCI450□822T170WOR	
10,000	90 x 130	0.25	20.1	MCI450□822U130WOR	
	76 x 210	0.25	23.0	MCI450□103T210WOR	
12,000	90 x 155	0.25	22.9	MCI450□103U155WOR	
	90 x 190	0.25	26.0	MCI450□123U190WOR	
15,000	90 x 220	0.25	29.5	MCI450□153U220WOR	

Rated ripple current multipliers

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