

MLT series

Long life RoHS compliant

- 85°C 8,000Hrs assured.
- Long Life
- Non-solvent proof.
- RoHS compliant
- Halogen-free capacitors are also available.



Specifications

Item	Characteristics		
Rated Voltage Range	400Vdc	420 ~ 500Vdc	
Operating Temperature Range	-40 ~ +85°C	-25 ~ +85°C	
Capacitance Tolerance	±20% (M) (at 20°C, 120Hz)		
Leakage Current	I=0.01CV+40(μA) at CV≤1,000, I=0.04CV+100(μA) at CV>1,000 (at 20°C, 1min)		
	I=0.03CV+15(μA) at CV≤1,000, I=0.02CV+25(μA) at CV>1,000 (at 20°C, 5min)		
	Where, C:Nominal capacitance(μF), V:Rated voltage(VDC) (at 20°C)		
Dissipation Factor (Tanδ)	Rated Voltage(VDC)	400 ~ 450	
	Tanδ(Max.)	0.24	
	(at 20°C, 120Hz)		
Temperature characteristics (Max,impedance ratio)	Rated Voltage(VDC)	400	420~500
	Z(-25°C)/Z(20°C)	5	6
	Z(-40°C)/Z(20°C)	6	-
	(at ,120Hz)		
Load life	The following specifications shall be satisfied when the capacitors are restored to 20°C after the rated voltage is applied for 8,000 hours at 85°C. Capacitance change≤±20% of the initial value Tanδ ≤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 ≤500% of the initial specified value		

Dimension

Unit (mm)

	5	6.3	8	10	12.5	16	18	22
ØD	5	6.3	8	10	12.5	16	18	22
Ød	0.5	0.5	0.5	0.6	0.6	0.6	0.8	0.8
F	2.0	2.5	3.5	5.0	5.0	7.5	7.5	10.0
ØD'	ØD+0.5 max.							
L'	L+1.5 max.				L+2.0 max.			

- Printed white color letter on PET/PVC black sleeve

Code numbering system

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18

MLT □ □ □ M □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □

Taping, Cutting (TP5:5mm Taping)

Terminal type

Size (16x40 : J40)

Capacitance

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

Working voltage(ex. 6.3V→6R3, 10V→010,50V→050)

Series name

Ø5	D
Ø6.3	E
Ø8	F
Ø10	G
Ø12.5	X
Ø16	J
Ø18	K
Ø22	M

MLT series

Standard Rating

WV (Vdc)	Cap (uF)	Size ØxL (mm)	Tanδ	Ripple Current (mA _{RMS} /85°C, 120Hz)	Code No	
400	68	16 x 31.5	0.24	591	MLT400□680J32CS□□□	
		18 x 25	0.24	571	MLT400□680K25CS□□□	
	82	16 x 35.5	0.24	683	MLT400□820J36CS□□□	
		18 x 31.5	0.24	683	MLT400□820K32CS□□□	
	100	16 x 40	0.24	819	MLT400□101J40CS□□□	
		18 x 31.5	0.24	735	MLT400□101K32CS□□□	
	120	16 x 45	0.24	933	MLT400□121J45CS□□□	
		18 x 35.5	0.24	872	MLT400□121K36CS□□□	
	150	16 x 50	0.24	1,029	MLT400□151J50CS□□□	
	420	68	16 x 31.5	0.24	578	MLT420□680J32CS□□□
			18 x 25	0.24	560	MLT420□680K25CS□□□
		82	16 x 35.5	0.24	662	MLT420□820J36CS□□□
18 x 31.5			0.24	662	MLT420□820K32CS□□□	
100		16 x 40	0.24	788	MLT420□101J40CS□□□	
		18 x 35.5	0.24	756	MLT420□101K36CS□□□	
120		16 x 45	0.24	882	MLT420□121J45CS□□□	
		18 x 40	0.24	882	MLT420□121K40CS□□□	
150		16 x 50	0.24	966	MLT420□151J50CS□□□	
450		68	16 x 35.5	0.24	607	MLT450□680J36CS□□□
	18 x 31.5		0.24	588	MLT450□680K32CS□□□	
	82	16 x 40	0.24	689	MLT450□820J40CS□□□	
		18 x 31.5	0.24	662	MLT450□820K32CS□□□	
	100	16 x 45	0.24	798	MLT450□101J45CS□□□	
		18 x 35.5	0.24	756	MLT450□101K36CS□□□	
	120	16 x 50	0.24	908	MLT450□121J50CS□□□	
		18 x 40	0.24	882	MLT450□121K40CS□□□	
	150	16 x 50	0.24	966	MLT450□151J50CS□□□	
	500	10	12.5 x 16	0.24	121	MLT500□100X16CS□□□
22		16 x 25	0.24	242	MLT500□220J25CS□□□	
47		16 x 35.5	0.24	457	MLT500□470J36CS□□□	
56		16 x 40	0.24	516	MLT500□560J40CS□□□	
68		16 x 45	0.24	591	MLT500□680J45CS□□□	
		16 x 50	0.24	662	MLT500□820J50CS□□□	
100		16 x 50	0.24	735	MLT500□101J50CS□□□	
		18 x 45	0.24	735	MLT500□101K45CS□□□	

RATED RIPPLE CURRENT MULTIPLIERS

Vdc \ Freq. (Hz)	120	1k	10k	50k	100k
400~500	1.00	1.25	1.50	1.75	2.00