

CAPACITOR



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DMJ-MT
DC—Link

POWER LINKS SUCCESS

DMJ-MT series

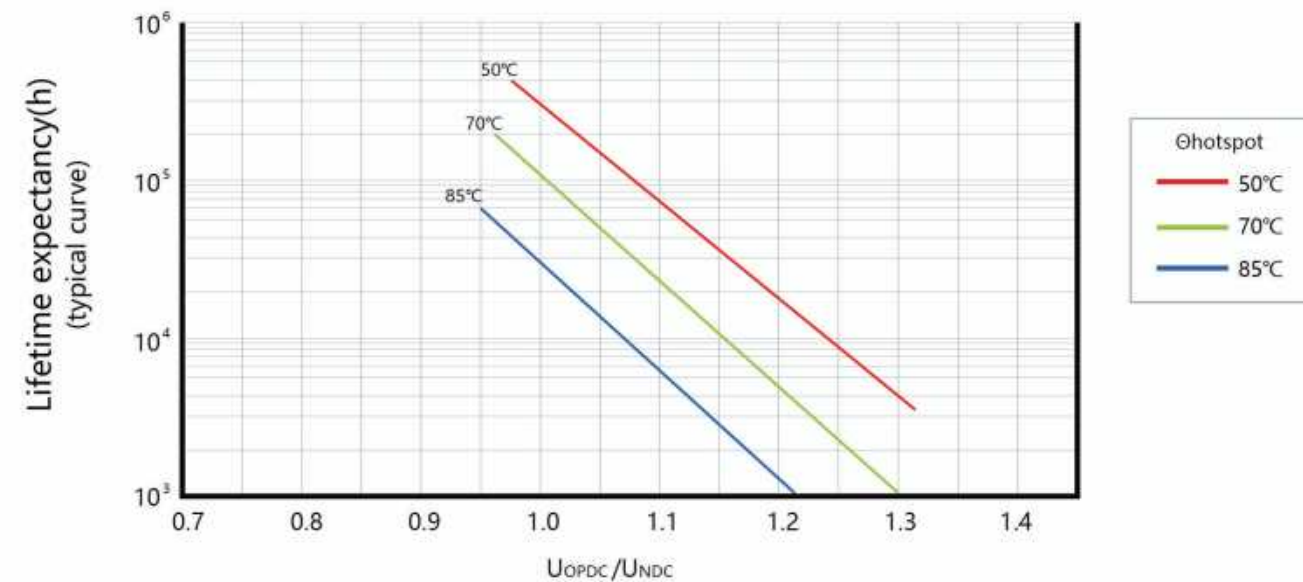
High-frequency filter/coupling metalized film capacitor



Application

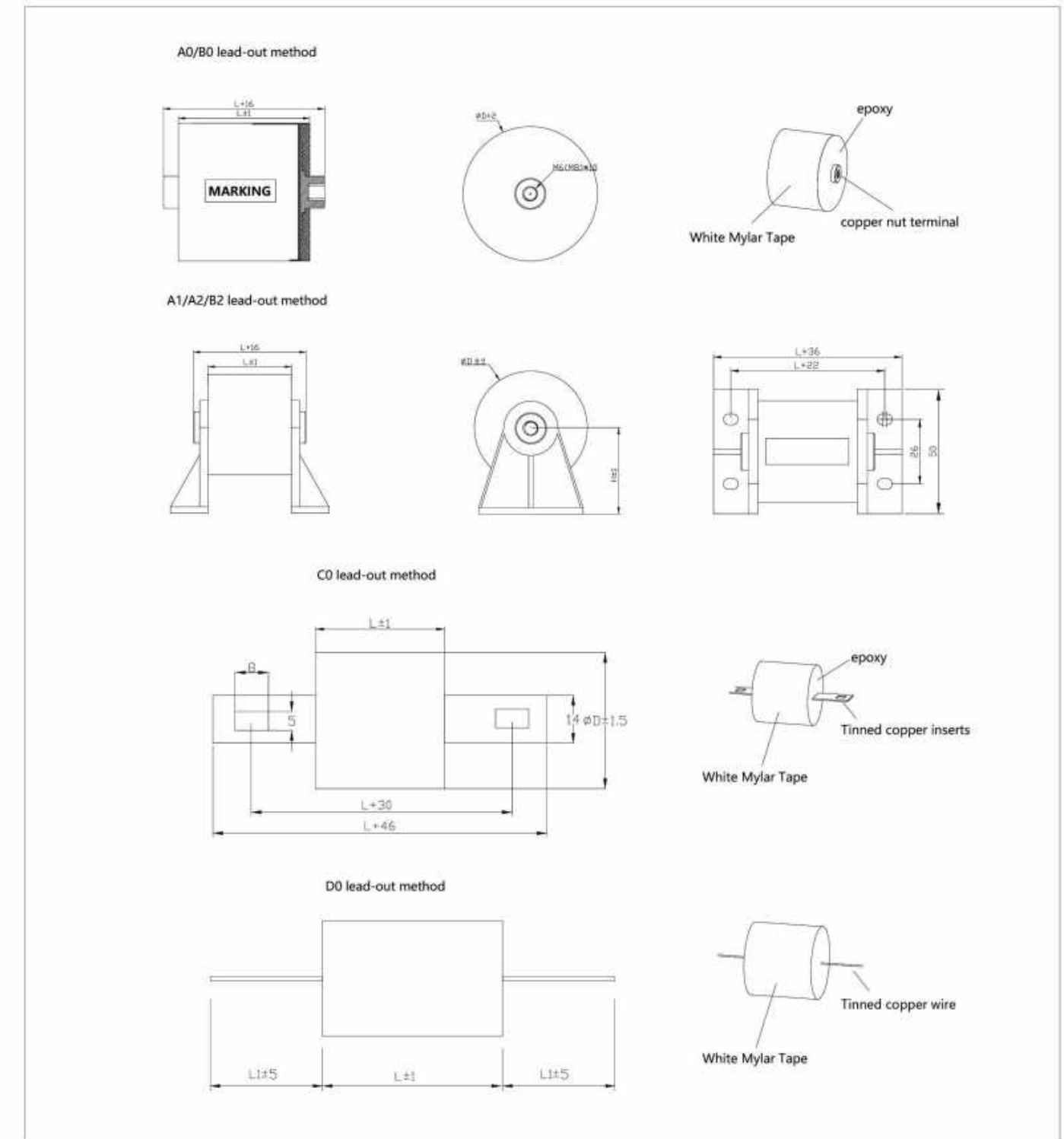
- Widely used in DC-Link circuit for high-frequency filtering and decoupling
- Widely used in power electronic circuits, for coupling purposes

Life expectancy in the graph



01

The contour map



02



DMJ-MT series

High-frequency filter/coupling metalized film capacitor

Technical data

Operating temperature range	Max.Operating temperature.,Top,max : + 85°C Upper category temperature : + 70°C Lower category temperature : - 40°C
(C _N) / Capacitance range	10μF - 100μF
(U _N) / Rated voltage	350V.DC - 1100V.DC
Cap.tol	±5%(J): ±10%(K)
Withstand voltage	1.5U _N DC / 60s
Over voltage	1.1U _N (30% of on - load - dur.)
	1.15U _N (30min / day)
	1.2U _N (5min / day)
	1.3U _N (1min / day)
	1.5U _N (100ms every time,1000times during the lifetime)
Dissipation factor	tgδ≤0.0015 f = 1kHz
Insulation resistance	R _s ×C ≥ 10000s (at 20°C 100V.DC 60s)
Withstand strike current	see attached table
I _{rms}	see attached table
Reference standard	IEC61071

Part number system

Model			Capacitance			U _N (DC)				Cap. tol	Length		Lead	Bottom mounted	Internal feature code	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
D	M	T	4	0	6	0	8	0	0	J	4	0	A	0	0	1
1	~	3	digits: Model													
4	~	6	digits: Nominal Capacity													
e.g. 406 = 40×10 ⁶ pF = 40μF																
7	~	10	digits: U _N (DC)													
e.g. 0800= 800V. DC																
11 digits: Capacitance Tolerance																
±5%(J): ±10%(K)																
12	~	13	digits: Length													
e.g. 40= 40mm																
14 digits: Lead																
A: M6x10 screw nut																



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Part number system

Model			Capacitance			U _N (DC)				Cap. tol	Length		Lead	Bottom mounted	Internal feature code	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
D	M	T	4	0	6	0	8	0	0	J	4	0	A	0	0	1
B: M8x10 screw nut																
C: Plated lead																
D: Pin lead(φ1.2)																
15 digits: Bottom mounted type																
0: Non-bracket																
1: Class 1 bracket (H=35mm)																
2: Class 1 bracket (H=41mm)																
16	~	17	digits: Internal feature code													

Specification table

C _N (μF)	ΦD (mm)	L (mm)	ESR @1kHz (mΩ)	ESL (nH)	dv/dt (V/μS)	I _p (A)	I _{rms} @10kHz40°C (A)	Part number
U _N 350V.DC U _s 525V U _r 100V								
20	38	40	3.3	25	60	1200	30	DMT2060350*40****
30	45	40	3.2	25	60	1800	40	DMT3060350*40****
30	38	50	3.2	25	50	1500	30	DMT3060350*50****
40	45	50	3	25	50	2000	35	DMT4060350*50****
50	49	50	3	25	50	2500	40	DMT5060350*50****
60	54	50	3	25	50	3000	45	DMT6060350*50****
70	58	50	3	25	50	3500	50	DM17060350*50****
80	55	60	3	25	40	3200	50	DMT8060350*60****
100	61	60	2.9	25	40	4000	55	DMT1070350*60****
U _N 700V.DC U _s 1050V U _r 200V								
20	38	40	3.3	25	60	1200	30	DMT2060700*40****
30	45	40	3.2	25	60	1800	40	DMT3060700*40****
30	38	50	3.2	25	50	1500	30	DMT3060700*50****
40	45	50	3	25	50	2000	35	DMT4060700*50****



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DMJ-MT series

High-frequency filter/coupling metalized film capacitor

Specification table

	φD (mm)	L (mm)		ESL (nH)	dv/dt (V/μS)	I _p (A)	I _{rms} @10kHz40°C (A)	Part number
U _N 700V.DC U _s 1050V U _r 200V								
50	49	50	3	25	50	2500	40	DMT5060700*50****
60	54	50	3	25	50	3000	45	DMT6060700*50****
70	58	50	3	25	50	3500	50	DMT7060700*50****
80	55	60	3	25	40	3200	50	DMT8060700*60****
100	61	60	2.9	25	40	4000	55	DMT1070700*60****
U _N 800V.DC U _s 1200V U _r 250V								
20	44	40	2.9	25	60	1200	40	DMT2060800*40****
30	54	40	2.7	25	80	2400	45	DMT3060800*40****
30	45	50	2.6	25	60	1800	40	DMT3060800*50****
30	40	60	2.8	25	50	1500	35	DMT3060800*60****
40	62	40	2.5	25	80	3200	55	DMT4060800*40****
40	52	50	2.7	25	60	2400	45	DMT4060800*50****
40	46	60	3.2	25	60	2400	40	DMT4060800*60****
50	69	40	2.1	25	80	4000	60	DMT5060800*40****
50	59	50	2.4	25	60	3000	50	DMT5060800*50****
50	52	60	2.5	25	60	3000	45	DMT5060800*60****
60	64	50	2.3	25	60	3600	55	DMT6060800*50****
60	56	60	2.4	25	60	3600	50	DMT6060800*60****
70	70	50	2	25	60	4200	60	DMT7060800*50****
70	62	60	2.2	25	60	4200	55	DMT7060800*60****
80	73	50	2.1	25	60	4800	60	DMT8060800*50****
80	65	60	2.5	25	60	4800	60	DMT8060800*60****
100	82	50	1.8	25	60	6000	75	DMT1070800*50****
100	72	60	2.2	25	50	5000	65	DMT1070800*60****
U _N 1100V.DC U _s 1650V U _r 300V								
10	42	40	3.4	25	60	600	35	DMT1061100*40****
20	50	50	3.1	25	60	1200	40	DMT2061100*50****
20	65	40	3	25	60	1200	60	DMT2061100*40****
30	60	50	3.1	25	60	1800	55	DMT3061100*50****
40	69	50	2.7	25	60	2400	60	DMT4061100*50****
40	61	60	2.9	25	50	2000	55	DMT4061100*60****
50	68	60	2.6	25	50	2500	60	DMT5061100*60****
60	75	60	2.2	25	50	3000	70	DMT6061100*60****
70	81	60	1.9	25	50	3500	70	DM17061100*60****
80	86	60	1.6	25	50	4000	75	DMT8061100*60****