

DC-Link Film Capacitors

MPDAT Series

multicompPRO



Features

- Used in DC-Link circuits as a replacement electrolytic capacitors
- Low ESR, High ripple current handling capabilities
- Self-healing.

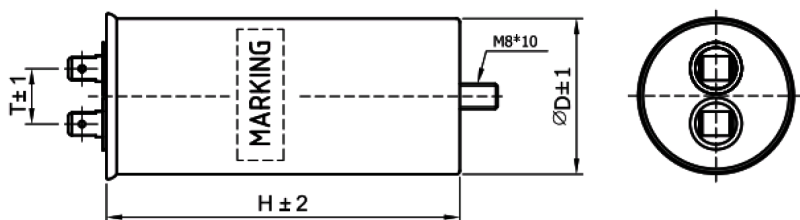
Application

- Used in wind and solar power inverters
- EV or HEV Transportation
- Welders, Elevators, Motors Driver systems

Specifications

Reference Standard	: GB/T17702 (IEC 61071)
Climatic Category	: 40/85/56
Operating Temperature Range	: -40°C to +85°C
Capacitance Range	: 10µF to 50µF
Capacitance Tolerance	: ±5%(J)
Test Voltage Between Terminals	: 1.5Un (10s, 20°C ±5°C)
Test Voltage Between Terminals and Case	: 1500V DC, 3000V AC (10s, 50Hz, 20°C ±5°C)
Rated Voltage (Urms)	: 300V, 360V and 450V
IR x CN	: 5000s (20°C, 500V DC, 1 min)
Max. Altitude	: 2000m
Install Bolts/Torque on the Bottom	: Aluminium Bolts (M8≤4.5N.m)
Leads to Electrical Extremes	: 250# (2+2) Quick insert
Rated Frequency	: 50/60Hz
Life Expectancy	: 100,000hours at Un and $\theta_{hs} \leq +70^{\circ}\text{C}$
Failure Rate	: 50FIT
Dielectric Material	: Metallized Polypropylene Film

Dimensions



Part Number	Cap µF	ΦD mm	H mm	T mm	Ipeak KA	Imax A	ESR mΩ	ESL nH
UNAC 640V UNDC 1000V Urms 450V								
MPDAT106J450VD42T4M	10	42	65	16	0.4	16	3.2	70
UNAC 420V UNDC 700V Urms 300V								
MPDAT356J300VD45T4M	35	45	85	18	0.4	16	4	90
MPDAT506J300VD50T4M	50	50	100	18	0.57	16	3.3	90
UNAC 500V UNDC 840V Urms 360V								
MPDAT356J360VD50T4M	35	50	100	18	0.5	16	4	90

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Part Number Table

Description	Part Number
DC-Link Film Capacitor, 10 μ F, 450V, $\pm$ 5%	MPDAT106J450VD42T4M
DC-Link Film Capacitor, 35 μ F, 300V, $\pm$ 5%	MPDAT356J300VD45T4M
DC-Link Film Capacitor, 50 μ F, 300V, $\pm$ 5%	MPDAT506J300VD50T4M
DC-Link Film Capacitor, 35 μ F, 360V, $\pm$ 5%	MPDAT356J360VD50T4M

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