

DC-Link Film Capacitors

MPDAT Series

multicomp PRO



Features

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

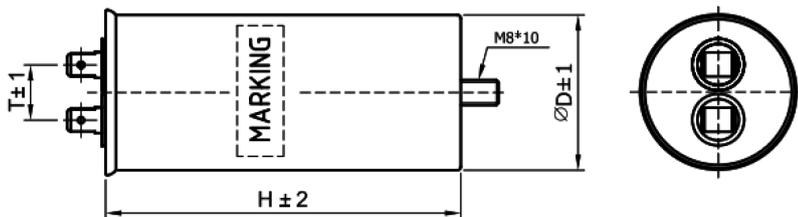
Application

- 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 θ _{hs} ≤ +70°C
Failure Rate	: 50FIT
Dielectric Material	: Metallized Polypropylene Film

Dimensions



Part Number	Cap μF	ΦD mm	H mm	T mm	I _{peak} KA	I _{max} 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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