

# DC-Link Film Capacitors - Radial Leaded MPDPB Series

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## Features

- Metallized polypropylene film construction
- Excellent electric property
- Plastic case (UL94 V-0), filled with resin
- High performance DC filtering applications  
(i.e. Frequency converters, Industrial and high-end power supplies and Solar inverters).

## Specifications

Reference Standard	: GB/T17702 (IEC 61071)
Climatic Category	: 40/105/56
Rated Temperature	: +85°C
Operating Temperature Range	: -40°C to +105°C (+85°C to + 105°C : decreasing factor 1.5% per °C for $U_N, 85^\circ\text{C}$ )
Rated Voltage $U_N$	: 600V DC, 700V DC, 800V DC, 1100V DC
Capacitance Range	: 8 $\mu\text{F}$ to 80 $\mu\text{F}$
Capacitance Tolerance	: $\pm 10\%$ (K)
Voltage Proof	: 1.5 $U_N$ (10s)
Insulation Resistance	: $\geq 10000\text{s}$ (20°C, 100V DC, 1min)
Self-Inductance $L_s$	: <1nH per mm of lead spacing
Max. Peak Current I (A)	: $I = C \cdot dV/dt$
Expected Lifetime	: 100,000Hrs @ $U_N, \theta_{\text{res}} = 70^\circ\text{C}$

## Specification Table

Part Number	Irms 10kHz	Peak Current	ESR 10kHz	ESL	Thermal Res	dv/dt
	A @ 70°C	A	m $\Omega$	nH	°C/W	V/us
MPDPB1K1A25K4Y050	13	625	8.2	35	8	25
MPDPB700A75K4Y050	20	1125	3.8	35	6.3	15
MPDPB1K1A30K4Y050	15	750	5	35	8.9	25
MPDPB1K1W80K4Q050	10.5	320	14	30	6.5	40
MPDPB800A20K0Q200	12	600	7	30	11.6	30
MPDPB800A50K4Y050	16	600	5	35	7.8	12
MPDPB600A80K4Y050	20	1200	4	35	6.3	15
MPDPB1K1A15K4Q050	16	600	7	30	5.4	40

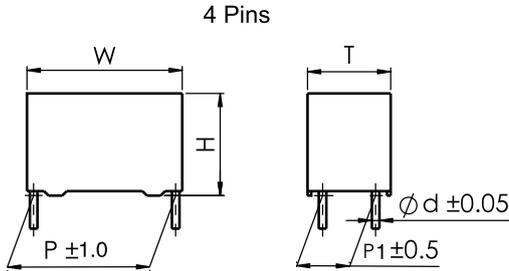
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## Dimensions



Part Number	W	H	T	P	P1	d (Lead Dia.)
MPDPB1K1A25K4Y050	58	50	35	52.5	20.3	1.2
MPDPB700A75K4Y050	58	50	35	52.5	20.3	1.2
MPDPB1K1A30K4Y050	57.5	45	30	52.5	20.3	1.2
MPDPB1K1W80K4Q050	42.5	28	19	37.5	10.2	1.2
MPDPB800A20K0Q200	42.5	37	28	37.5	10.2	1.2
MPDPB800A50K4Y050	58	50	35	52.5	20.3	1.2
MPDPB600A80K4Y050	58	50	35	52.5	20.3	1.2
MPDPB1K1A15K4Q050	42.5	45	30	37.5	20.3	1.2

Dimensions : Millimetres

## Part Number Table

Description	Part Number
DC-Link Film Capacitor, 25 $\mu$ F, 1.1kV, $\pm$ 10%, Radial Leaded	MPDPB1K1A25K4Y050
DC-Link Film Capacitor, 75 $\mu$ F, 700V, $\pm$ 10%, Radial Leaded	MPDPB700A75K4Y050
DC-Link Film Capacitor, 30 $\mu$ F, 1.1kV, $\pm$ 10%, Radial Leaded	MPDPB1K1A30K4Y050
DC-Link Film Capacitor, 8 $\mu$ F, 1.1kV, $\pm$ 10%, Radial Leaded	MPDPB1K1W80K4Q050
DC-Link Film Capacitor, 20 $\mu$ F, 800V, $\pm$ 10%, Radial Leaded	MPDPB800A20K0Q200
DC-Link Film Capacitor, 50 $\mu$ F, 800V, $\pm$ 10%, Radial Leaded	MPDPB800A50K4Y050
DC-Link Film Capacitor, 80 $\mu$ F, 600V, $\pm$ 10%, Radial Leaded	MPDPB600A80K4Y050
DC-Link Film Capacitor, 15 $\mu$ F, 1.1kV, $\pm$ 10%, Radial Leaded	MPDPB1K1A15K4Q050

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