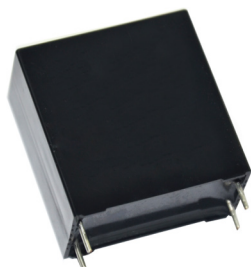


# DC-Link Film Capacitors - Radial Leaded MPDPB Series

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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 <sub>N</sub> ,85°C)
Rated Voltage U <sub>N</sub>	: 600V DC, 700V DC, 800V DC, 1100V DC
Capacitance Range	: 8μF to 80μF
Capacitance Tolerance	: ±10% (K)
Voltage Proof	: 1.5U <sub>N</sub> (10s)
Insulation Resistance	: ≥10000s (20°C, 100V DC, 1min)
Self-Inductance L <sub>s</sub>	: <1nH per mm of lead spacing
Max. Peak Current I (A)	: I=C.dV/dt
Expected Lifetime	: 100,000Hrs @ U <sub>N</sub> , θ <sub>res</sub> =70°C

## Specification Table

Part Number	Irms 10kHz	Peak Current	ESR 10kHz	ESL	Thermal Res	dv/dt
	A @ 70°C	A	mΩ	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

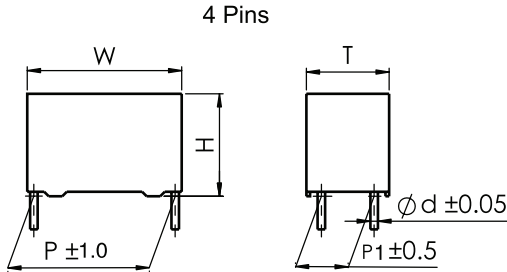
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## Dimensions



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
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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