

Type MEC-DL DC Filter Capacitor

Shizuki™ MEC-DL capacitors are designed with PCB board mounting in mind. Their lead spacing and compact size are conducive for low inductance (<1nH per mm of lead spacing). They are available with a single lead or dual leads depending on the current or application requirements.



Features:

- Radial lead type, plastic case
- Supports high frequency and large current capacity
- Safe design, destruction mode open
- High temperature durability (105°C)
- Low loss
- Small size, high resistance
- The exterior is made of flame-retardant resin that is UL94 V-0 certified

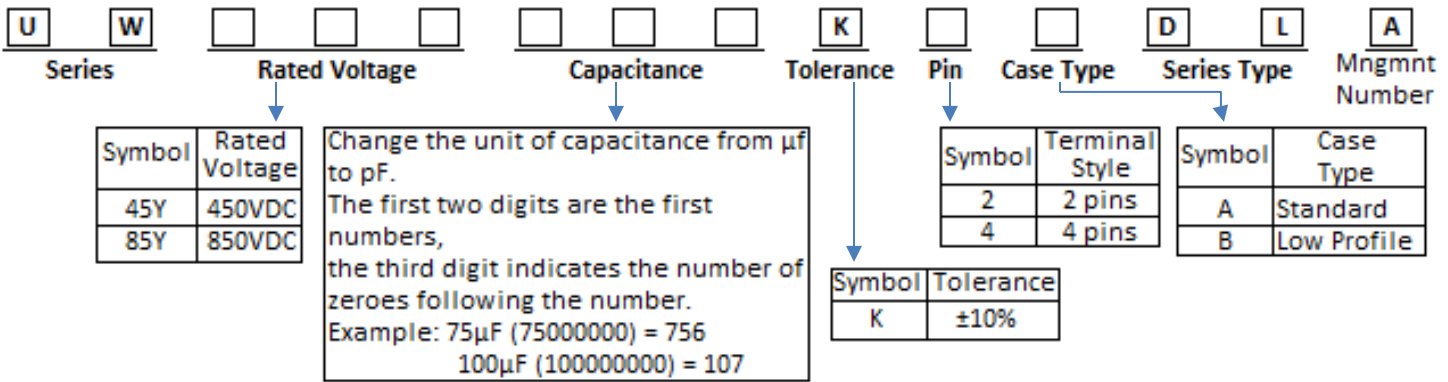
Applications (include but not limited to):

- Wind and solar power generation
- Power conversion equipment
- DC Link

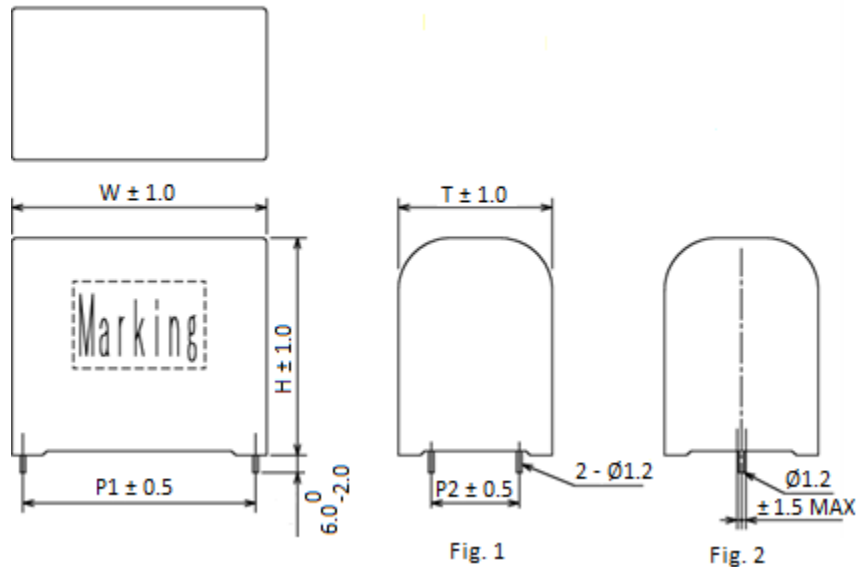
General Specifications

Parameter	Value
Rated Voltage	450VDC, 850VDC
Capacitance	450VDC: 75µF - 100µF 850VDC: 45µF - 55µF
Tolerance	±10% (K), other tolerances available
Temperature Range (operational)	-40°C to 85°C
Temperature Range (Storage)	-40°C to 105°C
RMS Current	Up to 21 Arms
Standards	IEC61071
Case	PBT UL-94V-0 Standard
Fill Material	Epoxy
Terminals	Tin Plated Copper Wire
Mounting Position	PCB Through Hole
Tan δ	2×10^{-4} Polypropylene
Terminal to Terminal Test	$1.5 \times U_n$ 10 seconds
Terminal to Case Test	$U_{T-CASE} = 2000 V_{rms}$ @ 50 Hz for 10 seconds
Reliability	1 FIT at 0.5 x V
Inductance	<1nH per mm of lead spacing

Product Number Structure:



Case Type: Standard (A)



Part Number	Rated Voltage (VDC)	Capacitance (μF)	I_{RMS} (10kHz) [A_{RMS}]	dV/dt [$V/\mu\text{s}$]	ESR (10kHz) [$m\Omega$]	"W" [mm]	"H" [mm]	"T" [mm]	"P1" [mm]	"P2" [mm]	Figure #
UW45Y756K4ADLA	450	75.0	17.0	18	4.3	58.0	50.0	35.0	52.5	20.3	1
UW45Y756K2ADLA	450	75.0	17.0	18	4.3	58.0	50.0	35.0	52.5	-	2
UW45Y806K4ADLA	450	80.0	18.0	18	4.0	58.0	50.0	35.0	52.5	20.3	1
UW45Y806K2ADLA	450	80.0	18.0	18	4.0	58.0	50.0	35.0	52.5	-	2
UW45Y107K4ADLA	450	100.0	21.0	18	3.2	58.0	50.0	35.0	52.5	20.3	1
UW45Y107K2ADLA	450	100.0	21.0	18	3.2	58.0	50.0	35.0	52.5	-	2
UW85Y456K4ADLA	850	45.0	16.0	24	5.4	58.0	50.0	35.0	52.5	20.3	1
UW85Y456K2ADLA	850	45.0	16.0	24	5.4	58.0	50.0	35.0	52.5	-	2
UW85Y506K4ADLA	850	50.0	17.0	24	4.9	58.0	50.0	35.0	52.5	20.3	1
UW85Y506K2ADLA	850	50.0	17.0	24	4.9	58.0	50.0	35.0	52.5	-	2
UW85Y556K4ADLA	850	55.0	18.0	24	4.4	58.0	50.0	35.0	52.5	20.3	1
UW85Y556K2ADLA	850	55.0	18.0	24	4.4	58.0	50.0	35.0	52.5	-	2

Case Type: Low Profile (B)

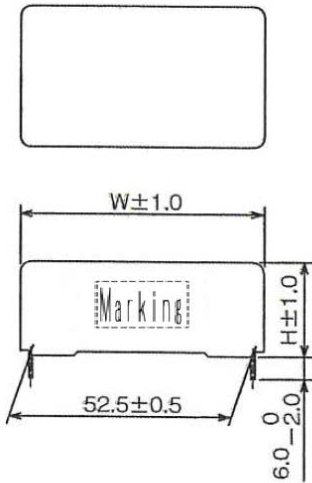


Fig. 1

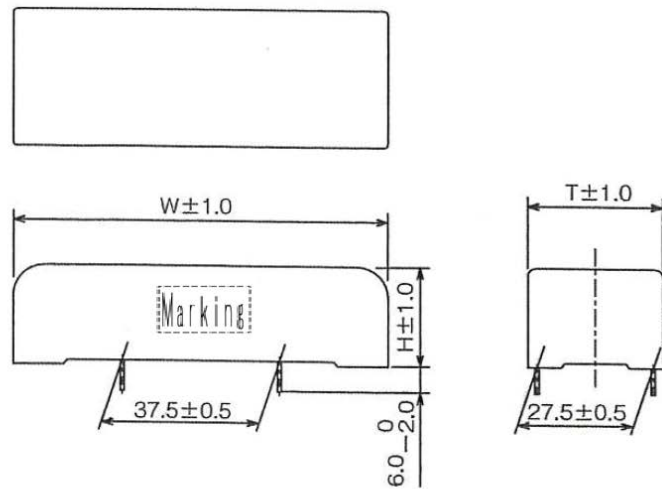


Fig. 2

Part Number	Rated Voltage (VDC)	Capacitance (μF)	I _{RMS} (10kHz) [A _{RMS}]	dV/dt [V/μs]	ESR (10kHz) [mΩ]	"W" [mm]	"H" [mm]	"T" [mm]	Figure #
UW45Y306K4BDLA	450	30.0	9.0	18	10.5	57.5	22.0	33.0	1
UW45Y406K4BDLA	450	40.0	11.0	18	8.0	57.5	23.0	43.0	1
UW45Y666K4BDLA	450	66.0	13.0	50	3.6	90.0	24.0	32.5	2
UW85Y176K4BDLA	850	17.0	8.0	24	10.5	57.5	22.0	33.0	1
UW85Y226K4BDLA	850	22.0	10.0	24	11	57.5	23.0	43.0	1
UW85Y246K4BDLA	850	24.0	11.0	57	5.1	90.0	24.0	32.5	2

Order Code Information:

Type	Lead Style	Capacitance	Tolerance	Voltage
MEC-DL	(2) = 2 Lead	7	10 = ±10%	450
	(4) = 4 Lead	↕		↕
		100		1300

Examples:	Order Code
Type MEC-DL, 2 Lead, 22μF ±10%, 850 VDC	MEC-DL(2) 22-10-850
Type MEC-DL, 4 Lead, 60μF ±10%, 1100 VDC	MEC-DL(4) 60-10-1100