

Type MEC-DL

High Humidity Resistance DC Link Capacitor

Shizuki™ MEC-DL HHR capacitors are DC link capacitors with metallized polypropylene film construction. With radial leads and a plastic case, they feature high stability at high temperature and humidity. They are designed with ease of mounting and space utilization in mind. Their internal construction achieves low inductance and very low ESR. These qualities enable the reduction or elimination of the snubber circuit. As a result, they can handle much higher ripple current, and the bulk capacitance can also be reduced. These capacitors have self healing and internal fusing mechanisms in order to achieve higher safety at end of life.



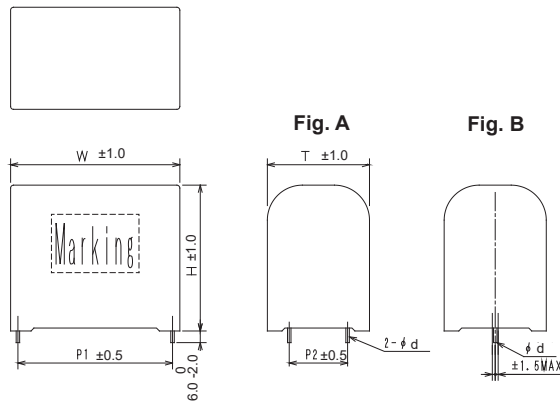
General Specifications

Parameter	Value
Rated voltage	450VDC - 1100VDC
Capacitance	1.0 μ F - 100 μ F
Tolerance	\pm 5%, \pm 10%
Humidity Resistance	85%, 85C, 1000 hours
Temperature Range (operational)	-40/85C
Max. Permissible Temperature	105C (Capacitor surface)
D.F. (at 1kHz, 20C)	\leq 50 μ F 0.2% max., >50 μ F 0.3% max.
Terminal to terminal test (10 sec.)	1.5 \times V _R (VDC)
Insulation resistance (1 min. at 20C)	>1000/CR M Ω at 100VDC
Failure rate	1FIT at 0.5 \times V _R , 40C
Flame retardant	UL94V-0 (Case and sealing)
Standards	IEC61071, JEM1419

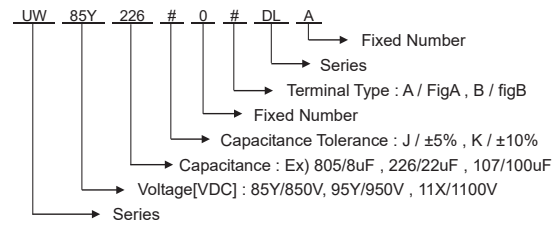
Applications

Applications include but are not limited to: DC link and DC filtering, solar inverters, wind power generation, industrial power supplies, and inverter circuit for appliances.

Dimensions [mm]:



Construction of Parts Code



Ordering Information

Parts Code/ Ordering Code	V _R [VDC]	C _R [μF]	I _{rms} *1 [Arms]	dv/dt*2 [V/us]	ESR*3 [mΩ]	Dimensions [mm]					
						W	H	T	P1	P2	Fig
UW45Y756#0ADLA	450	75.0	17.0	18	4.3	58.0	50.0	35.0	52.5	20.3	A
UW45Y756#0BDLA	450	75.0	17.0	18	4.3	58.0	50.0	35.0	52.5	-	B
UW45Y806#0ADLA	450	80.0	18.0	18	4.0	58.0	50.0	35.0	52.5	20.3	A
UW45Y806#0BDLA	450	80.0	18.0	18	4.0	58.0	50.0	35.0	52.5	-	B
UW45Y107K0ADLA	450	100.0	21.0	18	3.2	58.0	50.0	35.0	52.5	20.3	A
UW45Y107K0BDLA	450	100.0	21.0	18	3.2	58.0	50.0	35.0	52.5	-	B
UW85Y456#0ADLA	850	45.0	16.0	24	5.4	58.0	50.0	35.0	52.5	20.3	A
UW85Y456#0BDLA	850	45.0	16.0	24	5.4	58.0	50.0	35.0	52.5	-	B
UW85Y506#0ADLA	850	50.0	17.0	24	4.9	58.0	50.0	35.0	52.5	20.3	A
UW85Y506#0BDLA	850	50.0	17.0	24	4.9	58.0	50.0	35.0	52.5	-	B
UW85Y556K0ADLA	850	55.0	18.0	24	4.4	58.0	50.0	35.0	52.5	20.3	A
UW85Y556K0BDLA	850	55.0	18.0	24	4.4	58.0	50.0	35.0	52.5	-	B

*1 The maximum rms current for continuous operation. (Max. at 10kHz, T_{amb}.+70°C)

*2 Voltage pulse slope occurs continuously in the expected lifetime.

*3 Typical value at 10kHz.

American Shizuki Capacitors specializes in creating made-to-order solutions for your unique application. Please don't hesitate to ask us about customized components.

ASC[®]
CAPACITORS
A MEMBER OF SHIZUKI ELECTRIC CO.,INC

sales@ascapacitor.com
www.ascapacitor.com
phone: 308-284-3611
fax: 308-284-8324