

UW Series Useful of 2,000 hours at 105°C

• Conform RoHS

Features

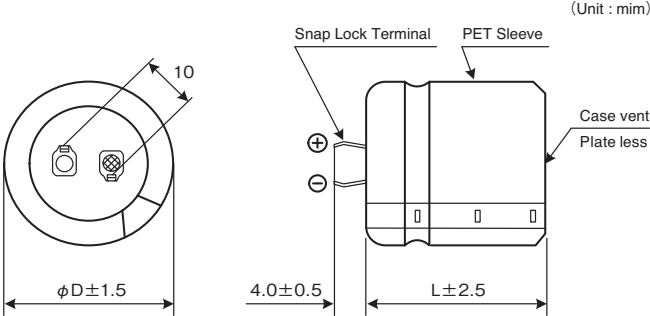
• Capacitance is increased by around 20%, from conventional HU series through development of etched foil technology.



Product Specifications

Items	Specifications
Temperature range	− 10°C ~ +105°C
Rated voltage	450V.DC
Capacitance tolerance	±20% (20°C, 120Hz)
Leakage current	0.02CV (μA) or 5mA, whichever is smaller or less (20°C, after 5 minutes) [C = nominal capacitance (μF), V = rated voltage (V)]
Dissipation factor	Less than the value specified in the standard products table. (20°C, 120Hz)
Permissible ripple current	As specified in the standard product table. (105°C, 120Hz)
Endurance	After the rated voltage with specified ripple current is applied at 105°C for 1,500 hours : Capacitance change : Within ±20% of the initial value measured Dissipation factor : 200% or less than the initial value specified Leakage current : Less than or equal to the initial value specified
Shelf life	The following specification shall be meet when the capacitor are restored to 20°C after storage of 500 hours at 105°C with no voltage applied. Before the measurement, the capacitor shall be preconditioned by applying the voltage treatment according to Item 4.1 of JIS C 5101-4. Capacitance change : Within ±15% of the initial value measured Dissipation factor : 175% or less than the initial value specified Leakage current : Less than or equal to the initial value specified
Others	JIS C 5101-4

Dimensions



Ripple current correction coefficient

Temperature (°C)	60	70	85	105	
Correction coefficient	2.7	2.4	2.1	1.0	
Frequency (Hz)	50/60	120	300	1K	≥10K
Correction coefficient	0.70	1.00	1.10	1.15	1.40

Terminal permissible current is limited to 10Arms. (Even if calculated the permissible ripple current with the correction coefficient exceeds 10Arms)
Please consult us when the ripple voltage exceeds 70Vp-p.

Product code

(Example) UW Series 450V 790μF±20%

UW 2W 791 M C Z S7 WP EC

Type of series

Environmental code

Plate code

Case height code

Case dia code

Terminal code

Capacitance tolerance code

Capacitance code

Rated voltage code

Refer to page 118-119 for other terminal shape available on request.

Standard Products Table

Rated Voltage (V. DC)	Capacitance (μ F)	Case size ϕ D $\times$ L (mm)	$\tan\delta$ 20°C, 120Hz	Ripple current (Arms) 105°C, 120Hz	ESR(typ.) (m Ω) 20°C, 100Hz	Product name
450	210	25 $\times$ 25	0.35	0.57	1,630	UW2W211MCYS2WPEC
	280	25 $\times$ 30	0.35	0.70	1,220	UW2W281MCYS3WPEC
	320	30 $\times$ 25	0.35	0.71	1,070	UW2W321MCZS2WPEC
	340	25 $\times$ 35	0.35	0.79	1,010	UW2W341MCYS4WPEC
	410	25 $\times$ 40	0.35	0.96	840	UW2W411MCYS5WPEC
		30 $\times$ 30	0.35	0.86	840	UW2W411MCZS3WPEC
	470	25 $\times$ 45	0.35	1.08	730	UW2W471MCYS6WPEC
	510	30 $\times$ 35	0.35	0.99	670	UW2W511MCZS4WPEC
	530	25 $\times$ 50	0.35	1.19	650	UW2W531MCYS7WPEC
	590	25 $\times$ 55	0.35	1.31	580	UW2W591MCYS8WPEC
	600	30 $\times$ 40	0.35	1.09	570	UW2W601MCZS5WPEC
	650	25 $\times$ 60	0.35	1.43	530	UW2W651MCYS9WPEC
	700	30 $\times$ 45	0.35	1.18	490	UW2W701MCZS6WPEC
	790	30 $\times$ 50	0.35	1.26	430	UW2W791MCZS7WPEC
	880	30 $\times$ 55	0.35	1.32	390	UW2W881MCZS8WPEC
	980	30 $\times$ 60	0.35	1.38	350	UW2W981MCZS9WPEC
	1,050	30 $\times$ 65	0.35	1.41	330	UW2W1050UFMCZS10WPEC
	1,150	30 $\times$ 70	0.35	1.46	300	UW2W1150UFMCZS11WPEC

Life time graph

Useful life depending on ambient temperature Ta and ripple current operating condition I versus rated ripple current at 105°C, 120Hz.

