

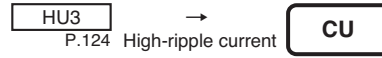
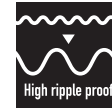
SNAP MOUNT TYPE ALUMINUM ELECTROLYTIC CAPACITORS

CU Series Useful of 4,000 hours at 105°C

- Conform RoHS

Features

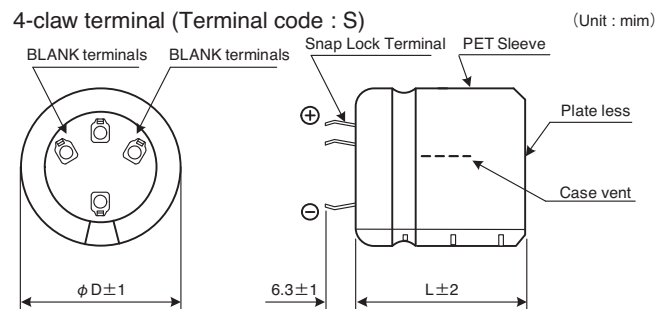
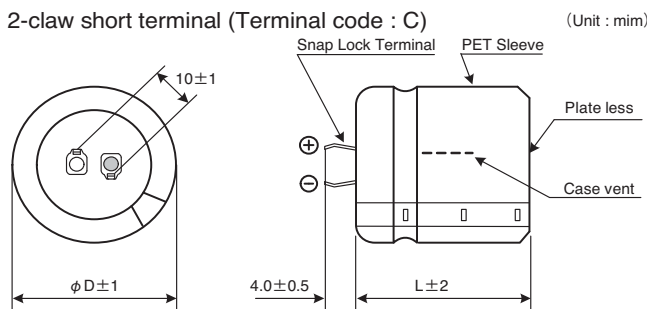
- CU series has higher ripple current (ave 30%) compared with HU3 series. These features are accomplished by new heat radiation.
- The vent is located in the side of the case.



Product Specifications

Items	Specifications
Temperature range	-25°C ~ +105°C
Rated voltage	400 ~ 500V.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 2,000 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
Notes to users	The vent position is not fixed. Please do not set up an obstacle to circumference less than 1mm.

Dimensions

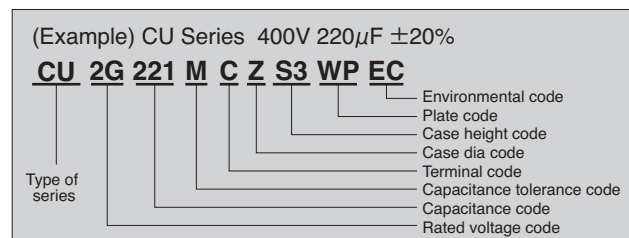


Ripple current correction coefficient

Temperature (°C)	60	70	85	105
Correction coefficient	1.9	1.7	1.4	1.0
Frequency (Hz)	120	300	1K	≥10K
Correction coefficient	1.0	1.1	1.3	1.4
Forced wind (m / s)	<0.5	0.5≤		
Correction coefficient	1.0	1.1		

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



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

Standard Products Table

Rated Voltage (V. DC)	Capacitance (μF)	Case size φD×L (mm)	tanδ 20°C, 120Hz	Ripple current	ESR(typ.)	Product name
				(Arms) 105°C, 120Hz	(mΩ) 20°C, 100Hz	
400	220	30×30	0.20	1.57	320	CU2G221MCZS3WPEC
		30×35	0.20	1.79	260	CU2G271MCZS4WPEC
	270	35×31	0.20	1.85	260	CU2G271MCAS3WPEC
		30×40	0.20	2.03	210	CU2G331MCZS5WPEC
	330	35×36	0.20	2.10	210	CU2G331MCAS4WPEC
		30×50	0.20	2.28	190	CU2G391MCZS7WPEC
	390	35×41	0.20	2.33	190	CU2G391MCAS5WPEC
		30×60	0.20	2.57	160	CU2G471MCZS9WPEC
	470	35×46	0.20	2.61	160	CU2G471MCAS6WPEC
		35×51	0.20	2.89	130	CU2G561MCAS7WPEC
	560	40×40	0.20	2.64	130	CU2G561MSBS5WPEC
		35×61	0.20	3.25	110	CU2G681MCAS9WPEC
	680	40×45	0.20	2.95	110	CU2G681MSBS6WPEC
		35×81	0.20	3.62	90	CU2G821MSAS13WPEC
820	40×61	0.20	3.35	90	CU2G821MSBS9WPEC	
	1,200	40×83	0.20	4.08	90	CU2G122MSBS13WPEC
450	150	30×30	0.20	1.30	490	CU2W151MCZS3WPEC
	180	30×35	0.20	1.46	420	CU2W181MCZS4WPEC
	220	30×40	0.20	1.66	340	CU2W221MCZS5WPEC
		35×31	0.20	1.67	340	CU2W221MCAS3WPEC
	270	35×36	0.20	1.90	280	CU2W271MCAS4WPEC
	330	30×50	0.20	2.10	230	CU2W331MCZS7WPEC
		35×41	0.20	2.15	230	CU2W331MCAS5WPEC
	390	30×60	0.20	2.34	200	CU2W391MCZS9WPEC
		35×46	0.20	2.37	200	CU2W391MCAS6WPEC
	470	35×51	0.20	2.64	160	CU2W471MCAS7WPEC
		40×40	0.20	2.42	160	CU2W471MSBS5WPEC
	560	35×61	0.20	2.95	140	CU2W561MCAS9WPEC
		40×45	0.20	2.68	140	CU2W561MSBS6WPEC
	680	35×81	0.20	3.30	110	CU2W681MSAS13WPEC
40×50		0.20	2.98	110	CU2W681MSBS7WPEC	
1,000	40×83	0.20	3.72	90	CU2W102MSBS13WPEC	
500	120	30×30	0.20	1.05	460	CU2H121MCZS3WPEC
	150	30×35	0.20	1.21	460	CU2H151MCZS4WPEC
	180	30×40	0.20	1.36	390	CU2H181MCZS5WPEC
		35×31	0.20	1.40	390	CU2H181MCAS3WPEC
	220	30×50	0.20	1.56	320	CU2H221MCZS7WPEC
		35×36	0.20	1.59	320	CU2H221MCAS4WPEC
	270	30×60	0.20	1.78	260	CU2H271MCZS9WPEC
		35×41	0.20	1.80	260	CU2H271MCAS5WPEC
	330	35×46	0.20	2.03	210	CU2H331MCAS6WPEC
	390	35×51	0.20	2.25	180	CU2H391MCAS7WPEC
	470	35×61	0.20	2.52	160	CU2H471MCAS9WPEC

Life time graph

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

