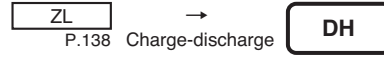


DH Series Useful of 5,000 hours at 105°C

• Conform RoHS

Features

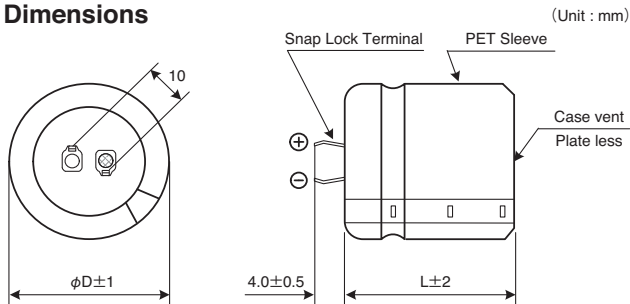
• Suited to high frequency Charge-Discharge use for AC servomotor, general inverter.



Product Specifications

Items	Specifications
Temperature range	-25°C ~ +105°C
Rated voltage	400 ~ 450V.DC
Capacitance tolerance	±20% (20°C, 120Hz)
Leakage current	0.02CV (µA) or 3 mA, 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 products table. (105°C, 120Hz)
Endurance	After the rated voltage with specified ripple current is applied at 105°C for 3,000 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 met 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
Endurance of charge-discharge behavior	After an application of charge-discharge voltage for 100 million times (charge-discharge(ΔV)=150V, cycle 6Hz) at 40°C, following requirements must be met. 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
Others	JIS C 5101-4

Dimensions



Ripple current correction coefficient

Temperature (°C)	60	70	85	105	
Correction coefficient	1.9	1.7	1.4	1.0	
Frequency (Hz)	50/60	120	300	1K	≥10K
Correction coefficient	0.7	1.0	1.1	1.3	1.4

A continuous load should be avoided over 10 A at the terminal in accordance with the permissible current.

Product code

(Example) DH Series 400V 100µF ±20%

DH 2G 101 M C X S2 WPEC

- DH: Type of series
- 2G: Terminal code
- 101: Capacitance code
- M: Capacitance tolerance code
- C: Case dia code
- X: Case height code
- S2: Without plate (standard)
- WPEC: Lead-Free and PVC-Free (standard)

Refer to page 124-125 for other terminal shape available on request.

SNAP MOUNT TYPE ALUMINUM ELECTROLYTIC CAPACITORS

Standard Products Table

Rated Voltage (V. DC)	Capacitance (μF)	Case size φ D × L (mm)	tanδ 20°C, 120Hz	Ripple current (Arms) 105°C, 120Hz	ESR(typ.) (mΩ) 20°C, 100Hz	Product name
400	100	22 × 25	0.20	0.70	1,100	DH2G101MCXS2WPEC
		22 × 30	0.20	0.82	920	DH2G121MCXS3WPEC
	120	25 × 25	0.20	0.81	920	DH2G121MCYS2WPEC
		22 × 35	0.20	0.96	730	DH2G151MCXS4WPEC
	150	22 × 40	0.20	1.09	610	DH2G181MCXS5WPEC
		25 × 30	0.20	1.04	610	DH2G181MCYS3WPEC
	220	22 × 45	0.20	1.25	500	DH2G221MCXS6WPEC
		25 × 35	0.20	1.21	500	DH2G221MCYS4WPEC
		30 × 25	0.20	1.15	500	DH2G221MCZS2WPEC
	270	22 × 50	0.20	1.44	410	DH2G271MCXS7WPEC
		25 × 40	0.20	1.39	410	DH2G271MCYS5WPEC
		30 × 30	0.20	1.34	410	DH2G271MCZS3WPEC
	330	35 × 25	0.20	1.32	410	DH2G271MCAS2WPEC
		25 × 45	0.20	1.60	330	DH2G331MCYS6WPEC
	390	30 × 35	0.20	1.55	330	DH2G331MCZS4WPEC
		30 × 40	0.20	1.76	280	DH2G391MCZS5WPEC
	470	35 × 30	0.20	1.67	280	DH2G391MCAS3WPEC
		30 × 45	0.20	2.00	230	DH2G471MCZS6WPEC
	560	35 × 35	0.20	1.91	230	DH2G471MCAS4WPEC
		30 × 50	0.20	2.25	200	DH2G561MCZS7WPEC
680	35 × 40	0.20	2.17	200	DH2G561MCAS5WPEC	
		35 × 45	0.20	2.47	160	DH2G681MCAS6WPEC

Rated Voltage (V. DC)	Capacitance (μF)	Case size φ D × L (mm)	tanδ 20°C, 120Hz	Ripple current (Arms) 105°C, 120Hz	ESR(typ.) (mΩ) 20°C, 100Hz	Product name
450	82	22 × 25	0.20	0.64	1,220	DH2W820MCXS2WPEC
		22 × 30	0.20	0.75	1,000	DH2W101MCXS3WPEC
	100	25 × 25	0.20	0.74	1,000	DH2W101MCYS2WPEC
		22 × 35	0.20	0.86	830	DH2W121MCXS4WPEC
	120	25 × 30	0.20	0.85	830	DH2W121MCYS3WPEC
		22 × 40	0.20	1.00	660	DH2W151MCXS5WPEC
	150	25 × 35	0.20	1.00	660	DH2W151MCYS4WPEC
		30 × 25	0.20	0.95	660	DH2W151MCZS2WPEC
		22 × 45	0.20	1.13	550	DH2W181MCXS6WPEC
	180	25 × 35	0.20	1.09	550	DH2W181MCYS4WPEC
		25 × 45	0.20	1.30	450	DH2W221MCYS6WPEC
	220	30 × 30	0.20	1.21	450	DH2W221MCZS3WPEC
		35 × 25	0.20	1.19	450	DH2W221MCAS2WPEC
		25 × 50	0.20	1.49	370	DH2W271MCYS7WPEC
	270	30 × 35	0.20	1.41	370	DH2W271MCZS4WPEC
		35 × 30	0.20	1.39	370	DH2W271MCAS3WPEC
	330	30 × 40	0.20	1.62	300	DH2W331MCZS5WPEC
		35 × 35	0.20	1.60	300	DH2W331MCAS4WPEC
	390	30 × 50	0.20	1.88	260	DH2W391MCZS7WPEC
		35 × 40	0.20	1.81	260	DH2W391MCAS5WPEC
470	35 × 45	0.20	2.05	210	DH2W471MCAS6WPEC	
560	35 × 50	0.20	2.31	180	DH2W561MCAS7WPEC	

ALUMINUM ELECTROLYTIC CAPACITORS

Life time graph

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

