

SNAP MOUNT TYPE ALUMINUM ELECTROLYTIC CAPACITORS

DH Series

Useful of 5,000 hours at 105°C (Warranty of 3,000 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 3mA, whichever is smaller or less (20°C, after 5minutes) [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)
High temp. Load life test	After 105°C, 3000h, rated voltage with specified ripple current application Capacitance variation : Initial value ±20% Dissipation factor : 200% or less of specified initial value Leakage current : Not greater than the specified initial value
Endurance of charge-discharge behavior	After an application of charge-discharge voltage for 50 million times (charge-discharge (ΔV)=150V, cycle 6Hz) at 40°C, following requirements must be met. Capacitance variation : Initial value ±20% Dissipation factor : 200% or less of specified initial value Leakage current : Not greater than the specified initial value
Others	JIS C 5101-4.

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

- Lead-Free and PVC-Free (standard)
- Without plate (standard)
- Length code
- Case dia code
- Terminal code
- Capacitance tolerance code
- Capacitance code
- Rated voltage code

Type of series

Refer to page 66-67 for other terminal shape available on request.

Standard Products Table

Rated Voltage (V. DC)	Capacitance (µF)	Case size øDXL (mm)	tanδ 20°C, 120Hz	Ripple current (Arms) 105°C, 120Hz	ESR (typ.) 20°C, 100Hz (mΩ)	Product name
400	100	22×25	0.20	0.70	1100	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
	180	22×45	0.20	1.25	500	DH2G221MCXS6WPEC
			0.20	1.21	500	DH2G221MCYS4WPEC
		30×25	0.20	1.15	500	DH2G221MCZS2WPEC
	220	22×50	0.20	1.44	410	DH2G271MCXS7WPEC
			0.20	1.39	410	DH2G271MCYS5WPEC
		25×40	0.20	1.34	410	DH2G271MCZS3WPEC
	270	30×30	0.20	1.32	410	DH2G271MCAS2WPEC
			0.20	1.60	330	DH2G331MCYS6WPEC
		30×35	0.20	1.55	330	DH2G331MCZS4WPEC
	330	30×40	0.20	1.76	280	DH2G391MCZS5WPEC
			0.20	1.67	280	DH2G391MCAS3WPEC
	390	35×30	0.20	2.00	230	DH2G471MCZS6WPEC
			0.20	1.91	230	DH2G471MCAS4WPEC
	470	30×45	0.20	2.25	200	DH2G561MCZS7WPEC
0.20			2.17	200	DH2G561MCAS5WPEC	
35×40		0.20	2.47	160	DH2G681MCAS6WPEC	

Rated Voltage (V. DC)	Capacitance (µF)	Case size øDXL (mm)	tanδ 20°C, 120Hz	Ripple current (Arms) 105°C, 120Hz	ESR (typ.) 20°C, 100Hz (mΩ)	Product name
450	82	22×25	0.20	0.64	1220	DH2W820MCXS2WPEC
		22×30	0.20	0.75	1000	DH2W101MCXS3WPEC
	100	25×25	0.20	0.74	1000	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
			0.20	0.95	660	DH2W151MCZS2WPEC
		30×25	0.20	1.13	550	DH2W181MCXS6WPEC
	180	22×45	0.20	1.09	550	DH2W181MCYS4WPEC
			0.20	1.30	450	DH2W221MCYS6WPEC
		25×45	0.20	1.21	450	DH2W221MCZS3WPEC
	220	30×30	0.20	1.19	450	DH2W221MCAS2WPEC
			0.20	1.49	370	DH2W271MCYS7WPEC
		30×35	0.20	1.41	370	DH2W271MCZS4WPEC
	270	35×30	0.20	1.39	370	DH2W271MCAS3WPEC
			0.20	1.62	300	DH2W331MCXS5WPEC
		30×40	0.20	1.60	300	DH2W331MCAS4WPEC
	330	30×50	0.20	1.88	260	DH2W391MCZS7WPEC
			0.20	1.81	260	DH2W391MCAS5WPEC
35×40		0.20	2.05	210	DH2W471MCAS6WPEC	
390	35×45	0.20	2.31	180	DH2W561MCAS7WPEC	

Life time graph

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

