

SCREW TERMINAL TYPE ALUMINUM ELECTROLYTIC CAPACITORS

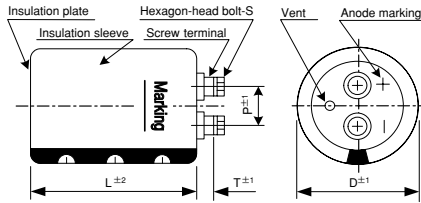
PH Series

Useful of 4,000 hours at 85°C (Warranty of 2,000 hours at 85°C)

• Conform RoHS

Features

• PH series is products developed for the purpose of reducing the in-series connection numbers in a high-pressure circuit, such as an inverter and a power supply.



(unit : mm)

φ D	P	S	T	Cap material
64	28.6	M5×10	5.5	Phenol
77	32.0	M5×10	5.0	Phenol
90	32.0	M5×10	5.0	Phenol

Product Specifications

Items	Specifications
Temperature range	-25°C ~ +85°C
Rated voltage	600V.DC
Capacitance tolerance	±20% (20°C, 120Hz)
Leakage current	0.01CV (μA) or 5 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. (85°C, 120Hz)
Endurance	After the rated voltage with specified ripple current is applied at 85°C for 2000 hours : Capacitance change : Within ±15% of initial value Dissipation factor : Not more than 175% of initial value specified Leakage current : Not more than initial value specified
Others	JIS C 5101-4.

Ripple current correction coefficient

Temperature (°C)	40	60	85	
Correction coefficient	1.89	1.67	1.00	
Frequency (Hz)	120	300	1k	≥10K
Correction coefficient	1.0	1.1	1.3	1.4

Terminal allowance current : 60Arms for M5

Bracket

- See page 21, 22 for shapes and dimensions.
- Product names in the Standard Products Table correspond to the bracket for Type Y , but Type I bracket may be used (Type of bracket code = I).
- If bracket are not necessary, enter "N" for the type of bracket code.
- Bracket will be delivered separately.

Product code : (Example) PH type 600 V 2,700μF±20%

PH 600V 272 Y E 130

E case (φD: 77 mm) product



Standard Products Table

Rated Voltage (V. DC)	Capacitance (μF)	Case size φDXL(mm)	tanδ 20°C,120Hz	Ripple current 85°C,120Hz (Arms)	ESR(typ.) 20°C,100Hz (mΩ)	Z max 20°C,10kHz (mΩ)	ESL(typ.) (nH)	Product name
600	1200	64×96	0.20	6.7	121	125	22	PH600V122YD096
	1500	64×115	0.20	8.1	112	115	22	PH600V152YD115
	1800	77×96	0.20	8.8	97	100	24	PH600V182YE096
	2200	77×115	0.20	10.4	81	83	24	PH600V222YE115
	2700	77×130	0.20	12.1	66	67	24	PH600V272YE130
	3300	90×131	0.20	14.3	44	45	24	PH600V332YF131
	4700	90×157	0.20	18.3	31	32	24	PH600V472YF157

Life time graph

Useful life depending on ambient temperature Ta and ripple current operating conditions Ir versus rated ripple current at 85°C,120Hz

