

# SCREW TERMINAL TYPE ALUMINUM ELECTROLYTIC CAPACITORS

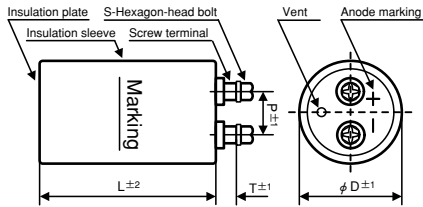
## PH Series

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 [ 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)
High-temperature load	After the rated voltage with specified ripple current is applied at 85°C for 2000 hours : Capacitance tolerance : ±15% or less of the initial value Dissipation factor : 175% or less of the specified initial value Leakage current : Specified initial value or less
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

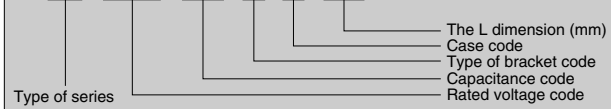
### Bracket

- See page 51 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 Code (Surge 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 600V (650)	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

