PI Series

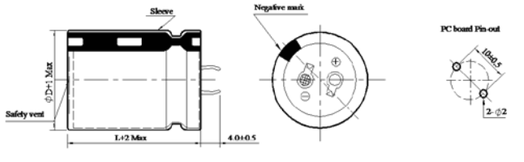
- **Endurance with ripple current: 3,000 hours at 105℃**

◆ SPECIFICATIONS

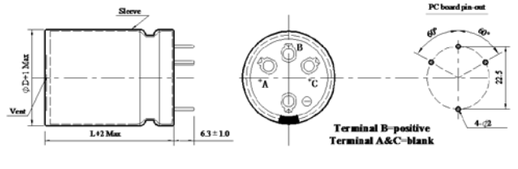
Item	Performance Characteristics
Category Temperature Range	-25 ~ +105℃
Working Voltage Range	400 ~ 450Vdc
Capacitance Range	56 ~ 680μF
Capacitance Tolerance	±20% (at 25℃ and 120Hz)
Dissipation Factor (tan δ) (at 25℃ , 120Hz)	Rated Voltage (V): 400 / 420 / 450 tanδ(Max): 0.15 / 0.20 / 0.20
Leakage Current	I≤3√CV I : Leakage current (μA) C : Rated capacitance (μF) V : Rated voltage (V) Impress the rated voltage for 5 minutes.
Endurance	The following requirements shall be satisfied when the capacitor are restored to 25℃ after the rated voltage applied for 3,000 hours at 105℃. Capacitance change: ≦ ±20% of the initial value Dissipation factor(tan δ): ≦ 200% of the specified value Leakage current: ≦The initial specified value
Shelf Life	The following requirements shall be satisfied when the capacitor are restored to 25℃ after exposing them for 1,000 hours at 105℃ without voltage applied. Capacitance change: ≦ ±15% of the initial value Dissipation factor(tanδ): ≦ 150% of the specified value Leakage current: ≦The initial specified value
Others	Conforms to JIS-C-5101-4 (1998), characteristic W.

◆ DIMENSIONS (mm)

Terminal Code : ND : Standard



Terminal Code :K6 (ø35)



◆ PART NUMBERING SYSTEM (Example : 450V 270μF)

P	I	2	W	2	7	1	M	N	D	3	0	4	1						

- Special Request
- Size code(3041 : 30×41)
- Terminal length code
- Lead forming Type code
- Capacitance tolerance code(M:±20%)
- Capacitance code (270μF)
- Voltage code (450V)
- Series code (PI)

PI Series

◆ Case size & Permissible rated ripple current: (A rms) at 105℃ / 120Hz

Vdc / ΦD / uF	400								420							
	Φ 22		Φ 25		Φ30		Φ35		Φ 22		Φ 25		Φ30		Φ35	
	ΦD×L	RC	ΦD×L	RC	ΦD×L	RC	ΦD×L	RC	ΦD×L	RC	ΦD×L	RC	ΦD×L	RC	ΦD×L	RC
82	22×25	0.61							22×25	0.61	25.4×25	0.62				
100	22×31	0.66	25.4×25	0.67					22×31	0.66	25.4×25	0.66				
120	22×35	0.71	25.4×25	0.71	30×25	0.73			22×35	0.71	25.4×31	0.71	30×25	0.71		
150	22×41	0.83	25.4×31	0.84	30×25	0.84	35×25	0.84	22×41	0.84	25.4×35	0.84	30×25	0.84		
180	22×45	0.93	25.4×35	0.93	30×30	0.93	35×25	0.93	22×45	0.91	25.4×35	0.91	30×31	0.91	35×25	0.91
220	22×51	1.05	25.4×41	1.05	30×31	1.05	35×25	1.05	22×51	1.05	25.4×45	1.05	30×35	1.05	35×25	1.05
270			25.4×45	1.16	30×35	1.16	35×31	1.16			25.4×51	1.16	30×41	1.16	35×31	1.16
330			25.4×51	1.37	30×41	1.37	35×31	1.37					30×45	1.40	35×35	1.40
390			25.4×61	1.44	30×45	1.44	35×35	1.44					30×51	1.50	35×41	1.50
470					30×51	1.81	35×41	1.81							35×45	1.81
560					30×61	2.00	35×45	2.00							35×51	2.05
680							35×51	2.15							35×61	2.15

Vdc / ΦD / uF	450							
	Φ 22		Φ 25		Φ30		Φ35	
	ΦD×L	RC	ΦD×L	RC	ΦD×L	RC	ΦD×L	RC
56	22×25	0.40						
68	22×31	0.51	25.4×25	0.51				
82	22×31	0.61	25.4×25	0.61				
100	22×35	0.66	25.4×31	0.66	30×25	0.66		
120	22×41	0.76	25.4×35	0.76	30×25	0.76	35×25	0.76
150	22×45	0.84	25.4×35	0.84	30×31	0.84	35×25	0.84
180	22×51	0.96	25.4×41	0.96	30×31	0.96	35×31	0.96
220			25.4×45	1.07	30×35	1.07	35×31	1.07
270			25.4×61	1.12	30×41	1.12	35×35	1.12
330					30×51	1.38	35×41	1.38
390					30×61	1.44	35×41	1.44
470							35×51	1.76
560							35×61	1.82

◆ RIPPLE CURRENT MULTIPLIERS

Frequency Multipliers

Vdc	Frequency (Hz)					
	50	120	300	1K	10K	50K
400 ~ 450	0.77	1.00	1.16	1.30	1.41	1.43