FINAL ACCEPTED ORDER DATE [2019/06]

Rubycon | CONDUCTIVE POLYMER ALUMINUM SOLID ELECTROLYTIC CAPACITORS | PCV

PCV SERIES

Previous Series

Load Life : 125℃ 3000 hours, Chip Type

・High Voltage(～50Vdc), Ultra Low ESR, High Ripple Current.
・AEC-Q200.

RoHS compliance

◆SPECIFICATIONS

Items	Characteristics
Category Temperature Range	−55～+125℃
Rated Voltage Range	25～50Vdc
Surge Voltage	Rated Voltage ×1.15
Capacitance Tolerance	±20%(20℃,120Hz)
Leakage Current(MAX)	The value is shown in “STANDARD SIZE” table (After 2 minutes)
Dissipation Factor(MAX) (tanδ)	Not more than 0.12(20℃,120Hz)
Endurance	After applying rated voltage for 3000 hours at 125℃, the capacitors shall meet the following requirements.
Damp heat(Stady state)	After applying rated voltage for 1000 hours at 60℃ and humidity of 90 to 95%, the capacitors shall meet the following requirements.
Low Temperature Characteristics Impedance Ratio(MAX)	Z(−55℃)/Z(+20℃)≦1.25 (100kHz) Z(−25℃)/Z(+20℃)≦1.15

Endurance

Capacitance Change	Within ±20% of the initial value.
Dissipation Factor	Not more than 150% of the specified value.
Leakage Current	Not more than the specified value.

Damp heat(Stady state)

Capacitance Change	Within ±20% of the initial value.
Dissipation Factor	Not more than 150% of the specified value.
Leakage Current	Not more than the specified value.

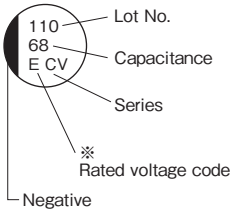
◆PART NUMBER

□□□ Rated Voltage | PCV Series | □□□□□ Capacitance | M Capacitance Tolerance | □□□ Option | D×L Case Size

◆MULTIPLIER FOR RIPPLE CURRENT

Frequency(Hz)	120	1k	10k	100k≦
Coefficient	0.05	0.30	0.70	1.00

◆MARKING

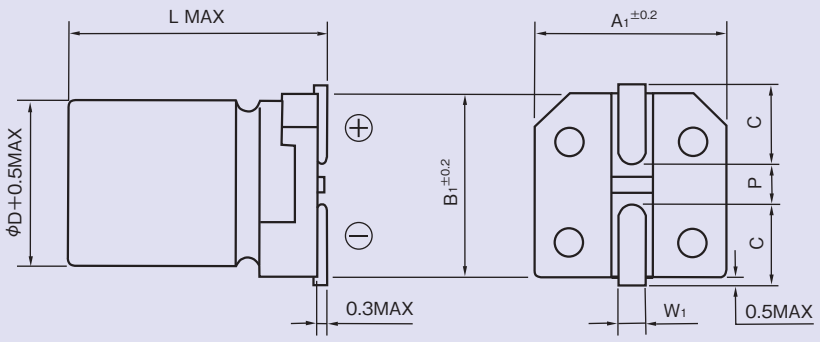


※Voltage code

Rated Voltage (Vdc)	25	35	50
Voltage code	E	V	H

◆DIMENSIONS

(mm)



φD	8		10	
L	12	15	12	15
A1	8.3		10.3	
B1	8.3		10.3	
C	2.9		3.2	
W1	0.8～1.1		0.8～1.1	
P	3.1		4.5	

◆STANDARD SIZE

Rated Voltage (Vdc)	Capacitance (μF)	Size φD×L (mm)	(tanδ) (120Hz,20℃)	Leakage Current (μA/2min)	E.S.R.(mΩ,max)		Rated Ripple Current (mA r.m.s./100kHz)
					20℃, 100kHz	−40℃, 10kHz	
25	68	8×12	0.12	340	35	53	1600
	82	8×15	0.12	410	32	48	2000
	100	10×12	0.12	500	30	45	2000
	150	10×15	0.12	750	29	44	2300
35	33	8×12	0.12	231	37	56	1600
	39	8×15	0.12	273	35	53	2000
	56	10×12	0.12	392	31	47	2000
	68	10×15	0.12	476	30	45	2300
50	22	8×12	0.12	220	38	57	1250
	27	8×15	0.12	270	36	54	1500
	33	10×12	0.12	330	33	50	1600
	47	10×15	0.12	470	31	47	2000