

PCV SERIES

Load Life : 125°C 3000 hours, Chip Type

◆FEATURES

- High Voltage (∼50Vdc), Ultra Low ESR, High Ripple Current.
- Lead free reflow soldering is available
- RoHS compliance.



◆SPECIFICATIONS

Items	Characteristics	
Category Temperature Range	−55∼+125°C	
Rated Voltage Range	25∼50Vdc	
Surge Voltage	Rated Voltage ×1.15	
Capacitance Tolerance	±20% (20°C, 120Hz)	
Leakage Current(MAX)	The value is shown in “STANDARD SIZE” table (After 2 minutes)	
(tanδ) Dissipation Factor(MAX)	0.12以下 (20°C, 120Hz)	
Endurance	After applying rated voltage for 3000 hours at 125°C, the capacitors shall meet the following requirements.	
	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)	After applying rated voltage for 1000 hours at 60°C and humidity of 90 to 95%, the capacitors shall meet the following requirements.	
	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.
Low Temperature Characteristics Impedance Ratio(MAX)	$Z(-55^{\circ}\text{C})/Z(+20^{\circ}\text{C}) \leq 1.25$ (100kHz) $Z(-25^{\circ}\text{C})/Z(+20^{\circ}\text{C}) \leq 1.15$	

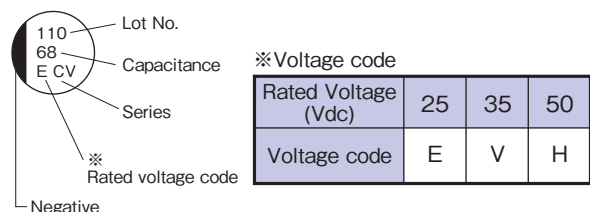
◆PART NUMBER

 PCV M DXL
Rated Voltage Series Capacitance Capacitance Tolerance Option Case Size

◆MULTIPLIER FOR RIPPLE CURRENT

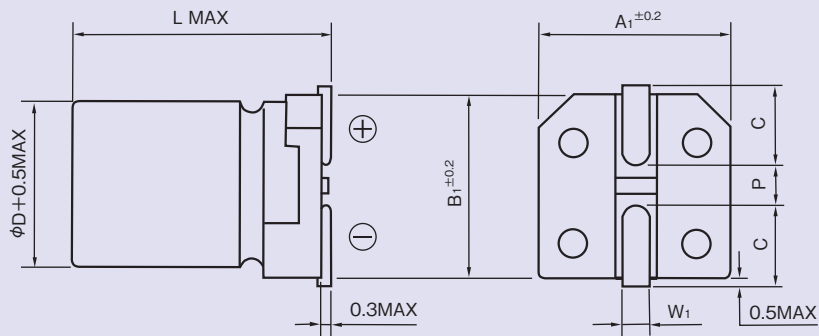
Frequency (Hz)	120	1k	10k	100k≤
Coefficient	0.05	0.30	0.70	1.00

◆MARKING



◆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 $\phi D \times L$ (mm)	($\tan \delta$) (120Hz, 20°C)	Leakage Current ($\mu A/2min$)	E.S.R. ($m\Omega, max/20^\circ C, 100kHz$)	Rated Ripple Current (mA _{rms} /100kHz)
25	68	8×12	0.12	340	35	1600
	82	8×15	0.12	410	32	2000
	100	10×12	0.12	500	30	2000
	150	10×15	0.12	750	29	2300
35	33	8×12	0.12	231	37	1600
	39	8×15	0.12	273	35	2000
	56	10×12	0.12	392	31	2000
	68	10×15	0.12	476	30	2300
50	22	8×12	0.12	220	38	1250
	27	8×15	0.12	270	36	1500
	33	10×12	0.12	330	33	1600
	47	10×15	0.12	470	31	2000