

**PCV SERIES**
**NEW**
**High Voltage (~50V.DC), Ultra Low ESR, Chip Type**
**◆FEATURES**

- High Voltage (~50V.DC), Ultra Low ESR, High Ripple Current
- Load Life : 125°C 3000hours
- Lead free reflow soldering is available
- RoHS compliance


**◆SPECIFICATIONS**

Items	Characteristics						
Category Temperature Range	-55~+125°C						
Rated Voltage Range	25~50V.DC						
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)						
Dissipation Factor(MAX) (tanδ)	0.12以下 (20°C, 120Hz)						
Endurance	<p>After applying rated voltage for 3000 hours at 125°C, the capacitors shall meet the following requirements.</p> <table border="1"> <tr> <td>Capacitance Change</td> <td>Within ±20% of the initial value.</td> </tr> <tr> <td>Dissipation Factor</td> <td>Not more than 150% of the specified value.</td> </tr> <tr> <td>Leakage Current</td> <td>Not more than the specified value.</td> </tr> </table>	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.
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)	<p>After applying rated voltage for 1000 hours at 60°C and humidity of 90 to 95%, the capacitors shall meet the following requirements.</p> <table border="1"> <tr> <td>Capacitance Change</td> <td>Within ±20% of the initial value.</td> </tr> <tr> <td>Dissipation Factor</td> <td>Not more than 150% of the specified value.</td> </tr> <tr> <td>Leakage Current</td> <td>Not more than the specified value.</td> </tr> </table>	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.
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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**

※Voltage code

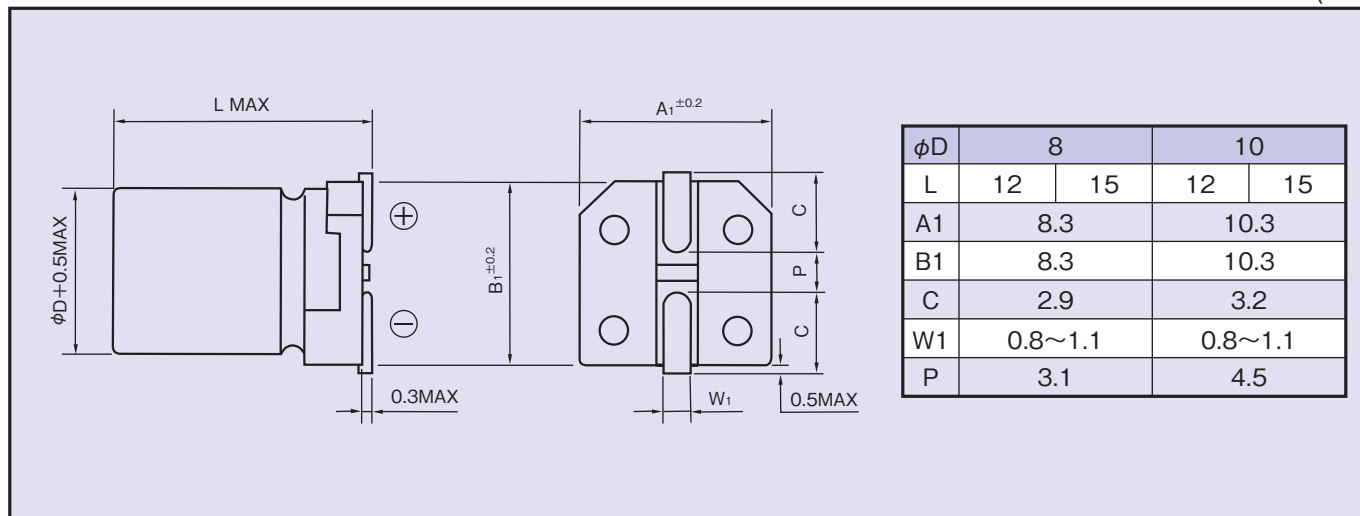
Rated Voltage (V)	25	35	50
Voltage code	E	V	H

※ Rated voltage code

— Negative

**◆ DIMENSIONS**

(mm)


**◆ STANDARD SIZE**

Rated Voltage (V·DC)	Capacitance ( $\mu F$ )	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 ( $mA_{rms}/125^\circ C, 100kHz$ )
25 (1E)	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 (1V)	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 (1H)	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