

PFV SERIES
NEW
High Voltage (~63V.DC), Ultra Low ESR, Chip Type
◆FEATURES

- High Voltage (~63V.DC), Ultra Low ESR, High Ripple Current, Miniaturized
- Load Life : 125°C 4000hours
- Lead free reflow soldering is available
- RoHS compliance


◆SPECIFICATIONS

Items	Characteristics								
Category Temperature Range	-55~+125°C								
Rated Voltage Range	25~63V.DC								
Capacitance Tolerance	±20% (20°C, 120Hz)								
Leakage Current(MAX)	The value is shown in "STANDARD SIZE" table (After 2 minutes)								
Dissipation Factor(MAX) (tanδ)	The value is shown in "STANDARD SIZE" table (20°C, 120Hz)								
Endurance	After applying rated voltage with rated ripple current for 4000 hours at 125°C, the capacitors shall meet the following requirements.								
	<table border="1"> <tr> <td>Capacitance Change</td> <td>Within ±30% of the initial value.</td> </tr> <tr> <td>Dissipation Factor</td> <td>Not more than 200% of the initial specified value.</td> </tr> <tr> <td>E.S.R.</td> <td>Not more than 200% of the initial specified value.</td> </tr> <tr> <td>Leakage Current</td> <td>Not more than the initial specified value.</td> </tr> </table>	Capacitance Change	Within ±30% of the initial value.	Dissipation Factor	Not more than 200% of the initial specified value.	E.S.R.	Not more than 200% of the initial specified value.	Leakage Current	Not more than the initial specified value.
	Capacitance Change	Within ±30% of the initial value.							
	Dissipation Factor	Not more than 200% of the initial specified value.							
E.S.R.	Not more than 200% of the initial specified value.								
Leakage Current	Not more than the initial specified value.								
Biased Humidity	After applying rated voltage for 2000 hours at 85°C and humidity of 85%, the capacitors shall meet the following requirements.								
	<table border="1"> <tr> <td>Capacitance Change</td> <td>Within ±30% of the initial value.</td> </tr> <tr> <td>Dissipation Factor</td> <td>Not more than 200% of the initial specified value.</td> </tr> <tr> <td>E.S.R.</td> <td>Not more than 200% of the initial specified value.</td> </tr> <tr> <td>Leakage Current</td> <td>Not more than the initial specified value.</td> </tr> </table>	Capacitance Change	Within ±30% of the initial value.	Dissipation Factor	Not more than 200% of the initial specified value.	E.S.R.	Not more than 200% of the initial specified value.	Leakage Current	Not more than the initial specified value.
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	Dissipation Factor	Not more than 200% of the initial specified value.							
E.S.R.	Not more than 200% of the initial specified value.								
Leakage Current	Not more than the initial specified value.								
Low Temperature Characteristics Impedance Ratio(MAX)	$Z(-55^{\circ}\text{C})/Z(+20^{\circ}\text{C}) \leq 2.0$ (100kHz) $Z(-25^{\circ}\text{C})/Z(+20^{\circ}\text{C}) \leq 1.5$								

◆PART NUMBER

□□□ **PFV** □□□□□ **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

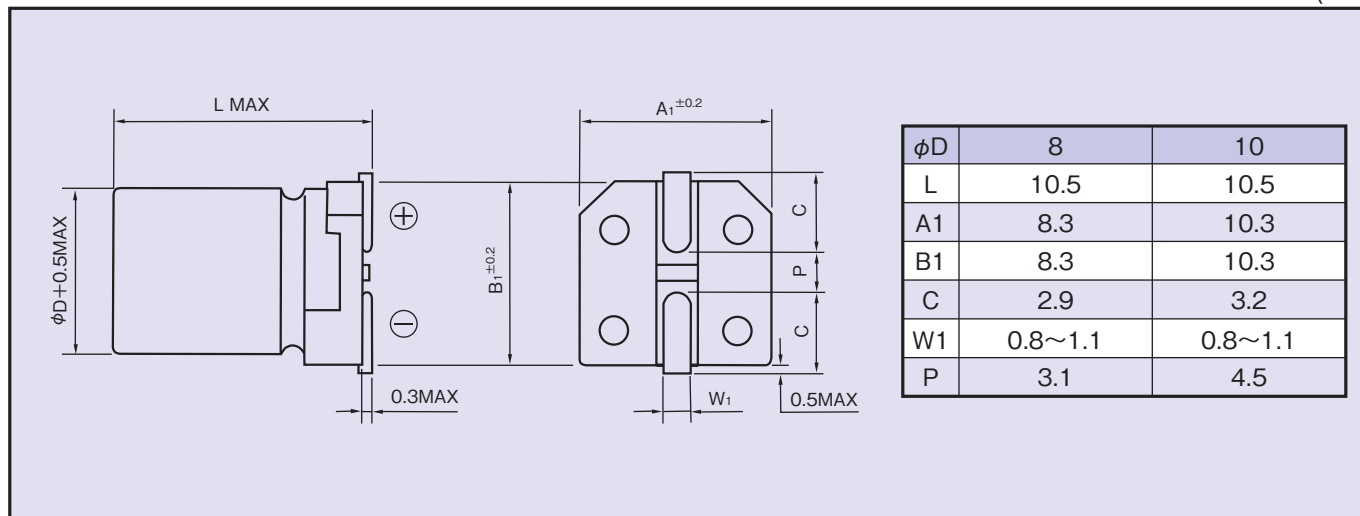
51A — Lot No.
 68 — Capacitance
 V FV — Series
 ※ Voltage code

Rated Voltage (V)	25	35	50	63
Voltage code	E	V	H	J

Negative

◆ DIMENSIONS

(mm)


◆ STANDARD SIZE

Rated Voltage (V·DC)	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°C, 100kHz)	Rated Ripple Current (mA rms/125°C, 100kHz)
25 (1E)	220	8×10.5	0.14	55.0	27	1600
	330	10×10.5	0.14	82.5	20	2000
35 (1V)	150	8×10.5	0.12	52.5	27	1600
	270	10×10.5	0.12	94.5	20	2000
50 (1H)	68	8×10.5	0.10	34.0	30	1250
	100	10×10.5	0.10	50.0	28	1600
63 (1J)	33	8×10.5	0.08	20.8	40	1100
	56	10×10.5	0.08	35.3	30	1400