

PFV SERIES
NEW
Load Life : 125°C 4000 hours (Hybrid Type), Chip Type
◆FEATURES

- High Voltage (∼63Vdc), Ultra Low ESR, High Ripple Current, Miniaturized.
- Lead free reflow soldering is available
- RoHS compliance.


◆SPECIFICATIONS

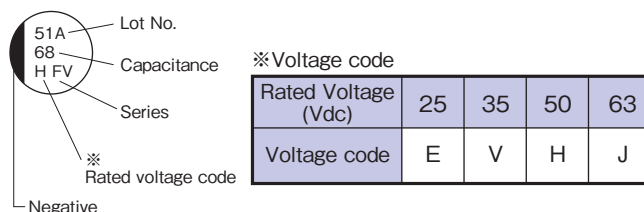
Items	Characteristics								
Category Temperature Range	−55∼+125°C								
Rated Voltage Range	25∼63Vdc								
Capacitance Tolerance	±20% (20°C, 120Hz)								
Leakage Current(MAX)	The value is shown in "STANDARD SIZE" table (After 2 minutes)								
(tanδ) Dissipation Factor(MAX)	The value is shown 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.
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.								
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

Rated Voltage	PFV Series	Capacitance	M Capacitance Tolerance	Option	DxL Case Size

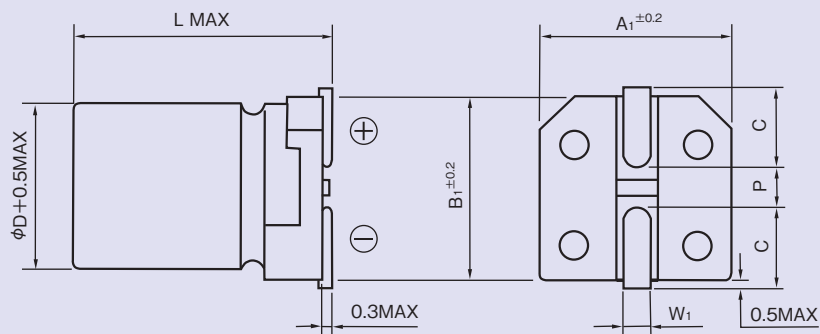
◆MULTIPLIER FOR RIPPLE CURRENT

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

◆MARKING


◆DIMENSIONS

(mm)



ϕD	8	10
L	10.5	10.5
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

※Vibration proof package is also available. For details, please refer to chip aluminum electrolytic capacitors section.

◆STANDARD SIZE

Rated Voltage (Vdc)	Capacitance (μF)	Size $\phi D \times L$ (mm)	($\tan \delta$) (120Hz, 20°C)	Leakage Current ($\mu\text{A}/2\text{min}$)	E.S.R. ($\text{m}\Omega$ max/20°C, 100kHz)	Rated Ripple Current (mA rms/125°C, 100kHz)
25	220	8×10.5	0.14	55.0	27	1600
	330	10×10.5	0.14	82.5	20	2000
35	150	8×10.5	0.12	52.5	27	1600
	270	10×10.5	0.12	94.5	20	2000
50	68	8×10.5	0.10	34.0	30	1250
	100	10×10.5	0.10	50.0	28	1600
63	33	8×10.5	0.08	20.8	40	1100
	56	10×10.5	0.08	35.3	30	1400