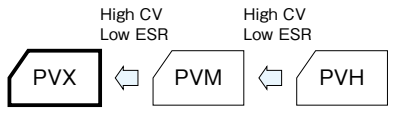


Chip Type

- GREEN CAP
- SMD
- Low ESR
- 105°C 2000hours
- Anti-cleaning solvent

- Super low ESR and high ripple current are realized.
- Guaranteed 105°C, 2000 hours.



Marking color : Blue print

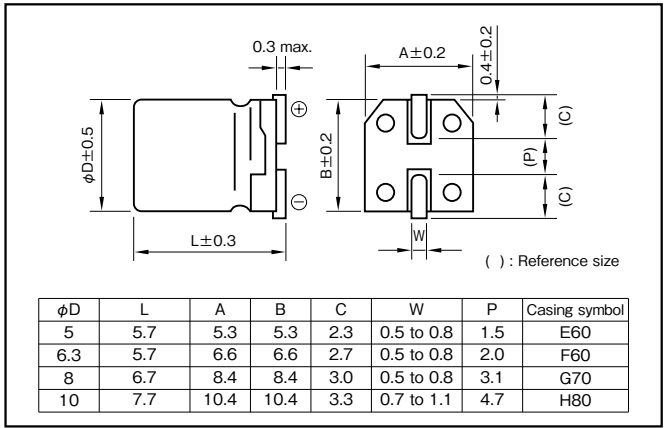
Specifications

Item	Performance			
Category temperature range (°C)	-55 to +105			
Tolerance at rated capacitance (%)	±20 (20°C,120Hz)			
Leakage current (µA) *Note	Less than 0.2CV (after 2 minutes) C : Rated capacitance (µF) ; V : Rated voltage (V) (20°C)			
Tangent of the loss angle (tanδ)	Less than 0.12 (20°C,120Hz)			
Characteristics at high and low temperature	Impedance ratio (max.)			
	<table border="1" style="width: 100%;"> <tr> <td>Z-25°C/Z+20°C</td> <td>1.15</td> </tr> <tr> <td>Z-55°C/Z+20°C</td> <td>1.25</td> </tr> </table>	Z-25°C/Z+20°C	1.15	Z-55°C/Z+20°C
Z-25°C/Z+20°C	1.15			
Z-55°C/Z+20°C	1.25			
Endurance (105°C) (Applied ripple current)	Test time	2000 hours		
	Leakage current	The initial specified value or less		
	Percentage of capacitance change	Within ±20% of initial value		
	Tangent of the loss angle	150% or less of the initial specified value		
	ESR change	150% or less of the initial specified value		
Bias Humidity 60°C, 90 to 95%RH	Test time	500 hours		
	Leakage current	The initial specified value or less		
	Percentage of capacitance change	Within ±20% of initial value		
	Tangent of the loss angle	150% or less of the initial specified value		
	ESR change	150% or less of the initial specified value		
Characteristics of applied surge voltage	The capacitors shall be subject to 1000 cycles each consisting of charge with the surge voltage specified at 105°C for 30 seconds through a protective resistor (Rc=1kΩ) in 6 minutes per cycle. Surge voltage : 1.15 times of rated voltage			
	Leakage current	The initial specified value or less		
	Percentage of capacitance change	Within ±20% of initial value		
	Tangent of the loss angle	150% or less of the initial specified value		
	ESR change	150% or less of the initial specified value		
Failure rate	0.5% per 1000 hours maximum (Confidence level 60% at 105°C)			

*Note : If any doubt arises, measure the leakage current after following voltage application treatment.
Voltage application treatment : DC rated voltage are applied to the capacitors for 120 minutes at 105°C.

Outline Drawing

Unit : mm



- Soldering conditions are described on page 15.
- Land pattern size are described on page 13.
- The taping specifications are described on page 16.

Part numbering system (example : 4V150µF)

PVX	—	4	V	151	M	E60	E	—	□
Series code		Rated voltage symbol		Rated capacitance symbol	Capacitance tolerance symbol	Casing symbol			Taping symbol

Standard Ratings

Rated voltage (V) Rated capacitance (μF)	Item	2.5			4			6.3			10		
		Case	ESR	Rated ripple current	Case	ESR	Rated ripple current	Case	ESR	Rated ripple current	Case	ESR	Rated ripple current
		φD×L (mm)	(mΩ max.)	(mA _{rms})	φD×L (mm)	(mΩ max.)	(mA _{rms})	φD×L (mm)	(mΩ max.)	(mA _{rms})	φD×L (mm)	(mΩ max.)	(mA _{rms})
100	—	—	—	—	—	—	5×5.7	15	3100	5×5.7	15	3100	
120	—	—	—	—	—	—	—	—	—	6.3×5.7	13	3300	
150	5×5.7	10	3800	5×5.7	10	3800	5×5.7	15	3100	—	—	—	
220	5×5.7	10	3800	5×5.7	10	3800	6.3×5.7	9	4000	8×6.7	10	3800	
270	5×5.7	10	3800	—	—	—	—	—	—	—	—	—	
330	6.3×5.7	9	4000	6.3×5.7	9	4000	8×6.7	8	4300	8×6.7	10	3800	
390	6.3×5.7	9	4000	—	—	—	8×6.7	8	4300	—	—	—	
470	8×6.7	8	4300	8×6.7	8	4300	8×6.7	8	4300	10×7.7	10	4000	
560	8×6.7	8	4300	8×6.7	8	4300	—	—	—	—	—	—	
680	8×6.7	8	4300	10×7.7	8	4600	—	—	—	—	—	—	
820	—	—	—	—	—	—	10×7.7	8	4600	—	—	—	
1000	10×7.7	8	4600	10×7.7	8	4600	—	—	—	—	—	—	
1200	10×7.7	8	4600	—	—	—	—	—	—	—	—	—	

ALUMINUM

POLYMER HYBRID

105°C

(Note) Rated ripple current : 105°C, 100kHz ; ESR : 20°C, 100kHz