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[Elna America](#)
[PVH-10V151MG70E-R2](#)

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PVH ALUMINUM ELECTROLYTIC CAPACITORS WITH CONDUCTIVE POLYMER SOLID ELECTROLYTE

ELNA®

Chip Type

GREEN
CAP

SMD

Low
ESR

105°C
2000hours

Anti-
cleaning
solvent

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



PVH

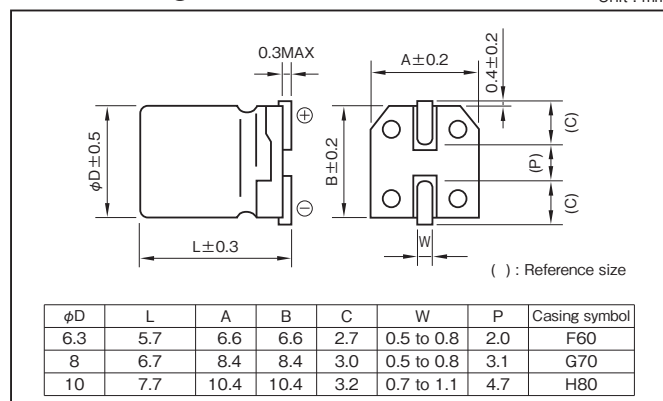
Specifications

Item	Performance			
Category temperature range (°C)	-55 to +105			
Tolerance at rated capacitance (%)	±20 (20°C,120Hz)			
Leakage current (μA) *Note	Rated voltage (V)		2.5 to 20	
	Leakage current (μA)		Less than 0.2 CV	
			25,35	
	C : Rated capacitance (μF) ; V : Rated voltage (V) (20°C)			
Tangent of loss angle (tanδ)	Less than 0.12 (20°C,120Hz)			
Characteristics at high and low temperature	Impedance ratio (max.) Z-55°C/Z+20°C : 1.50 (100kHz)			
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	
	E.S.R. change		200% or less of the initial specified value	
Damp heat, steady state (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	
	E.S.R. change		200% 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 15 to 35°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	
	E.S.R. change		200% or less of the initial specified value	
Failure tare	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



Part numbering system (example : 4V150μF)

PVH	—	4	V	151	M	F60	E	—	
Series code		Rated voltage symbol		Rated capacitance symbol	Capacitance tolerance symbol	Casing symbol			Taping symbol

- Soldering conditions are described on page 13.
- Land pattern size are described on page 11.
- The taping specifications are described on page 14.

ELNA®

**ALUMINUM ELECTROLYTIC CAPACITORS
WITH CONDUCTIVE POLYMER SOLID ELECTROLYTE**

PVH

Standard Ratings

Rated voltage (V) Item Rated capacitance (μF)	2.5			4			6.3			10			16		
	Case	ESR	Rated ripple current	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)	φD×L (mm)	(mΩ max.)	(mA rms)
33	—	—	—	—	—	—	—	—	—	—	—	—	6.3×5.7	37	2050
39	—	—	—	—	—	—	—	—	—	—	—	—	6.3×5.7	37	2050
47	—	—	—	—	—	—	—	—	—	6.3×5.7	31	2250	6.3×5.7	37	2050
56	—	—	—	—	—	—	—	—	—	6.3×5.7	31	2250	—	—	—
68	—	—	—	—	—	—	6.3×5.7	27	2400	—	—	—	—	—	—
82	—	—	—	—	—	—	6.3×5.7	27	2400	—	—	—	8×6.7	30	2700
100	—	—	—	6.3×5.7	26	2450	6.3×5.7	27	2400	8×6.7	27	2800	8×6.7	30	2700
120	—	—	—	—	—	—	6.3×5.7	27	2400	8×6.7	27	2800	—	—	—
150	—	—	—	6.3×5.7	26	2450	8×6.7	25	3020	8×6.7	27	2800	10×7.7	26	3430
180	—	—	—	—	—	—	—	—	—	—	—	—	10×7.7	26	3430
220	6.3×5.7	25	2500	8×6.7	25	3020	8×6.7	25	3020	10×7.7	24	3770	—	—	—
270	—	—	—	—	—	—	—	—	—	10×7.7	24	3770	—	—	—
330	8×6.7	23	3100	8×6.7	25	3020	10×7.7	20	4130	10×7.7	24	3770	—	—	—
470	8×6.7	23	3100	10×7.7	20	4130	10×7.7	20	4130	—	—	—	—	—	—
560	8×6.7	23	3100	—	—	—	—	—	—	—	—	—	—	—	—
680	—	—	—	10×7.7	20	4130	—	—	—	—	—	—	—	—	—
1000	10×7.7	19	4240	—	—	—	—	—	—	—	—	—	—	—	—

Aluminum Electrolytic Capacitors
With Conductive Polymer Solid
Electrolyte

Rated voltage (V) Item Rated capacitance (μF)	20			25			35		
	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)
10	—	—	—	6.3×5.7	65	1500	8×6.7	200	750
22	6.3×5.7	50	1650	8×6.7	50	1800	10×7.7	150	1000
33	8×6.7	45	2000	10×7.7	45	2100	—	—	—
39	8×6.7	45	2000	10×7.7	45	2100	—	—	—
47	8×6.7	45	2000	—	—	—	—	—	—
82	10×7.7	40	2500	—	—	—	—	—	—

(Note) Rated ripple current : 105°C, 100kHz ; E.S.R. : 20°C, 100kHz