Chip Type

GREEN CAP | SMD | Low ESR | 105℃ 2000hours | Anti-cleaning solvent

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

High CV
Low ESR

PVM ⇦ PVH

Marking color : Blue print

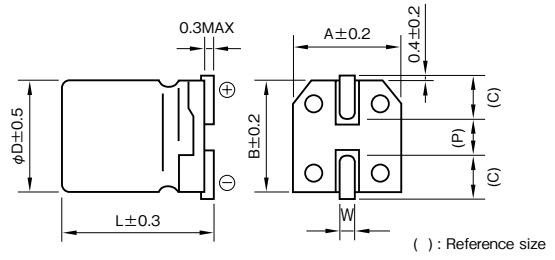
Specifications

Item	Performance
Category temperature range (℃)	−55 to +105
Tolerance at rated capacitance (%)	±20 (20℃,120Hz)
Leakage current (μA) *Note	Rated voltage (V): 2.5 to 20 / 25,35 Leakage current (μA): Less than 0.2 CV (after 2 minutes) / Less than 0.5 CV (after 2 minutes) C : Rated capacitance (μF) ; V : Rated voltage (V) (20℃)
Tangent of the loss angle (tanδ)	Less than 0.12 (20℃,120Hz)
Characteristics at high and low temperature	Impedance ratio (max.) Z−25℃/Z+20℃ : 1.15 Z−55℃/Z+20℃ : 1.25 (100kHz)
Endurance (105℃) (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: 150% or less of the initial specified value
Bias Humidity 60℃, 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: 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℃ for 30 seconds through a protective resister (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: 150% or less of the initial specified value
Failure tare	0.5% per 1000 hours maximum (Confidence level 60% at 105℃)

*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℃.

Outline Drawing

Unit : mm



φD	L	A	B	C	W	P	Casing symbol
5	5.7	5.3	5.3	2.3	0.5 to 0.8	1.5	E60
6.3	5.7	6.6	6.6	2.7	0.5 to 0.8	2.0	F60
8	6.7	8.4	8.4	3.0	0.5 to 0.8	3.1	G70
10	7.7	10.4	10.4	3.2	0.7 to 1.1	4.7	H80

Part numbering system (example : 4V150μF)

PVM	—	4	V	151	M	E60	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.

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.)	(mArms)	φD×L (mm)	(mΩ max.)	(mArms)	φD×L (mm)	(mΩ max.)	(mArms)	φD×L (mm)	(mΩ max.)	(mArms)	φD×L (mm)	(mΩ max.)	(mArms)
33	—	—	—	—	—	—	—	—	—	—	—	—	5×5.7	35	2070
39	—	—	—	—	—	—	—	—	—	—	—	—	5×5.7	35	2070
47	—	—	—	—	—	—	—	—	—	5×5.7	28	2310	6.3×5.7	28	2340
56	—	—	—	—	—	—	—	—	—	5×5.7	28	2310	—	—	—
68	—	—	—	—	—	—	—	—	—	5×5.7	28	2310	6.3×5.7	28	2340
100	—	—	—	5×5.7	22	2610	5×5.7	24	2500	6.3×5.7	25	2530	8×6.7	24	3010
120	—	—	—	—	—	—	5×5.7	24	2500	6.3×5.7	25	2530	8×6.7	24	3010
150	—	—	—	5×5.7	22	2610	—	—	—	—	—	—	—	—	—
180	5×5.7	21	2670	—	—	—	—	—	—	—	—	—	—	—	—
220	5×5.7	21	2670	5×5.7	22	2610	6.3×5.7	15	3160	8×6.7	21	3220	10×7.7	22	3450
270	—	—	—	6.3×5.7	15	3160	—	—	—	8×6.7	21	3220	—	—	—
330	6.3×5.7	15	3160	6.3×5.7	15	3160	8×6.7	14	3950	10×7.7	19	3800	—	—	—
390	6.3×5.7	15	3160	—	—	—	8×6.7	14	3950	—	—	—	—	—	—
470	8×6.7	13	3600	8×6.7	14	3950	8×6.7	14	3950	10×7.7	19	3800	—	—	—
560	8×6.7	13	3600	8×6.7	14	3950	—	—	—	—	—	—	—	—	—
680	8×6.7	13	3600	—	—	—	—	—	—	—	—	—	—	—	—
820	—	—	—	—	—	—	10×7.7	14	4300	—	—	—	—	—	—
1000	10×7.7	13	4450	10×7.7	14	4300	—	—	—	—	—	—	—	—	—
1200	10×7.7	13	4450	—	—	—	—	—	—	—	—	—	—	—	—

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.)	(mArms)	φD×L (mm)	(mΩ max.)	(mArms)	φD×L (mm)	(mΩ max.)	(mArms)
10	—	—	—	6.3×5.7	60	1500	—	—	—
15	—	—	—	—	—	—	8×6.7	150	1000
22	6.3×5.7	50	1650	8×6.7	50	1800	—	—	—
33	—	—	—	—	—	—	10×7.7	100	1800
39	—	—	—	10×7.7	45	2100	—	—	—
47	8×6.7	45	2000	—	—	—	—	—	—
82	10×7.7	40	2500	—	—	—	—	—	—

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

Mouser Electronics

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