

## Chip Type, 105°C Use, Low Impedance Capacitors

GREEN CAP

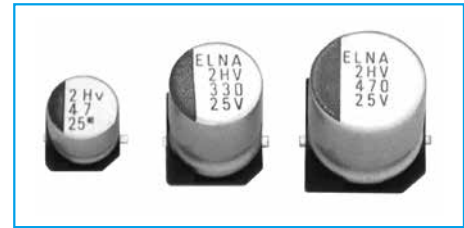
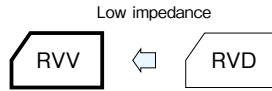
SMD

Low Z

105°C  
2000hours

Anti-cleaning solvent

- Compatible with surface mounting.
- Supplied with carrier taping.
- Guarantees 2000 hours at 105°C.



Marking color : Black print

### Specifications

Item	Performance							
Category temperature range (°C)	-55 to +105							
Tolerance at rated capacitance (%)	±20 (20°C, 120Hz)							
Leakage current (µA)	Less than 0.01CV or 3 whichever is larger (after 2 minutes) C : Rated capacitance (µF), V : Rated voltage (V) (20°C)							
Tangent of loss angle (tanδ)	Rated voltage (V)	6.3	10	16	25	35	50	
	tanδ (max.)	0.26	0.19	0.16	0.14	0.12	0.10	
Characteristics at high and low temperature	Impedance ratio (max.)	Rated voltage (V)	6.3	10	16	25	35	50
		Z-25°C/Z+20°C	2	2	2	2	2	2
		Z-40°C/Z+20°C	3	3	3	3	3	3
		Z-55°C/Z+20°C	4	4	4	3	3	3
Endurance (105°C)	Test time	2000 hours						
	Leakage current	The initial specified value or less						
	Percentage of capacitance change	Within ±30% of initial value						
	Tangent of the loss angle	200% or less of initial specified value						
Shelf life (105°C)	Test time : 1000hours ; other items are same as the endurance. Voltage application treatment : According to JIS C5101-4							
Applicable standards	JIS C 5101-1 1998, -18 1999(IEC 60384-1 1992, -18 1993)							

### Outline Drawing

Unit : mm

**Standard Type**

**For Vibration Resistance Type (φ8X10, φ10X10)**

( ) : Reference size

φD	L	A	B	C	W	P	Casing symbol
4	5.8±0.3	4.3	4.3	2.0	0.5 to 0.8	1.0	D61
5	5.8±0.3	5.3	5.3	2.3	0.5 to 0.8	1.5	E61
6.3	5.8±0.3	6.6	6.6	2.7	0.5 to 0.8	2.0	F61
6.3	7.7±0.3	6.6	6.6	2.7	0.5 to 0.8	2.0	F80
8	6.5±0.3	8.4	8.4	3.4	0.5 to 0.8	2.3	G68
8	10±0.5	8.4	8.4	3.0	0.7 to 1.1	3.1	G10
10	10±0.5	10.4	10.4	3.3	0.7 to 1.1	4.7	H10

**Coefficient of Frequency for Rated Ripple Current**

Frequency (Hz)	50 · 60	120	1k	10k · 100k
Rated voltage (V)	50 · 60	120	1k	10k · 100k
6.3 to 50	0.50	0.50	0.75	1

**Part numbering system**

Standard Type (example : 16V100µF)

RVV	—	16	V	101	M	F61	U	□
Series code		Rated voltage symbol		Rated capacitance symbol	Capacitance tolerance symbol	Casing symbol		Taping symbol

For Vibration Resistance Type (example : 25V470µF)

RTV	—	25	V	471	M	H10	U	□
Series code		Rated voltage symbol		Rated capacitance symbol	Capacitance tolerance symbol	Casing symbol		Taping symbol

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

Standard Ratings

Rated voltage (V)	Item	6.3				10				16			
		Case	Casing symbol	Impedance	Rated ripple current	Case	Casing symbol	Impedance	Rated ripple current	Case	Casing symbol	Impedance	Rated ripple current
		φD × L (mm)		(Ω max.)	(mArms)	φD × L (mm)		(Ω max.)	(mArms)	φD × L (mm)		(Ω max.)	(mArms)
10	—	—	—	—	—	—	—	—	—	4 × 5.8	D61	0.85	160
22	4 × 5.8	D61	0.85	160	4 × 5.8	D61	0.85	160	4 × 5.8	D61	0.85	160	
													5 × 5.8
33	—	—	—	—	4 × 5.8	D61	0.85	160	—	—	—	—	
					5 × 5.8	E61	0.36	240					
47	4 × 5.8	D61	0.85	160	—	—	—	—	5 × 5.8	E61	0.36	240	
	5 × 5.8	E61	0.36	240					6.3 × 5.8	F61	0.26	300	
100	5 × 5.8	E61	0.36	240	—	—	—	—	6.3 × 5.8	F61	0.26	300	
	6.3 × 5.8	F61	0.26	300					6.3 × 7.7	F80	0.16	600	
220	6.3 × 5.8	F61	0.26	300	6.3 × 7.7	F80	0.16	600	6.3 × 7.7	F80	0.16	600	
					8 × 6.5	G68	0.18	500	8 × 6.5	G68	0.18	500	
330	6.3 × 7.7	F80	0.16	600	8 × 10	G10	0.09	850	8 × 10	G10	0.09	850	
	8 × 6.5	G68	0.18	500									
470	8 × 10	G10	0.09	850	8 × 10	G10	0.09	850	8 × 10	G10	0.09	850	
680	—	—	—	—	8 × 10	G10	0.09	850	10 × 10	H10	0.07	1190	
1000	8 × 10	G10	0.09	850	10 × 10	H10	0.07	1190	—	—	—	—	
1500	10 × 10	H10	0.07	1190	—	—	—	—	—	—	—	—	

Rated voltage (V)	Item	25				35				50			
		Case	Casing symbol	Impedance	Rated ripple current	Case	Casing symbol	Impedance	Rated ripple current	Case	Casing symbol	Impedance	Rated ripple current
		φD × L (mm)		(Ω max.)	(mArms)	φD × L (mm)		(Ω max.)	(mArms)	φD × L (mm)		(Ω max.)	(mArms)
4.7	—	—	—	—	4 × 5.8	D61	0.85	160	—	—	—	—	
10	4 × 5.8	D61	0.85	160	4 × 5.8	D61	0.85	160	—	—	—	—	
					5 × 5.8	E61	0.36	240					
22	5 × 5.8	E61	0.36	240	5 × 5.8	E61	0.36	240	—	—	—	—	
33	5 × 5.8	E61	0.36	240	6.3 × 5.8	F61	0.26	300	—	—	—	—	
	6.3 × 5.8	F61	0.26	300									
47	6.3 × 5.8	F61	0.26	300	6.3 × 5.8	F61	0.26	300	—	—	—	—	
100	6.3 × 7.7	F80	0.16	600	6.3 × 7.7	F80	0.16	600	8 × 10	G10	0.18	670	
	8 × 6.5	G68	0.18	500	8 × 10	G10	0.09	850					
220	8 × 10	G10	0.09	850	8 × 10	G10	0.09	850	10 × 10	H10	0.12	900	
330	8 × 10	G10	0.09	850	10 × 10	H10	0.07	1190	—	—	—	—	
470	10 × 10	H10	0.07	1190	—	—	—	—	—	—	—	—	

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