

Chip Type, 105°C Use, Long Life 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.
(6.3 to 50V 10.5L:5000 hours)



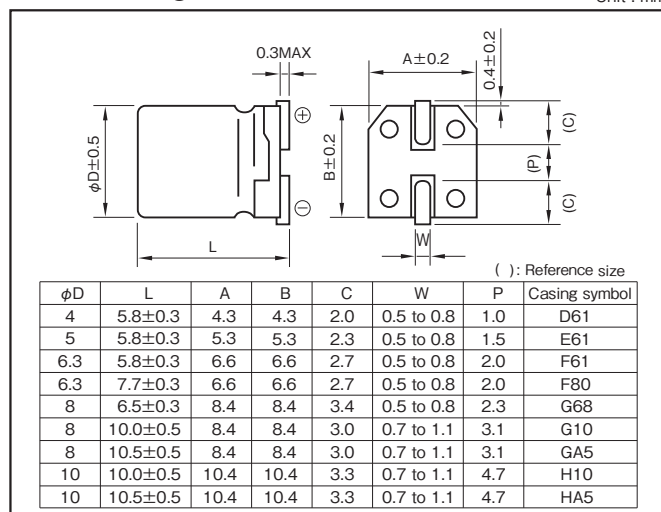
Marking color : Black print

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	63	80	100
	tanδ (max.)	0.26	0.19	0.16	0.14	0.12	0.10	0.08	0.08	0.07
Characteristics at high and low temperature	(20°C,120Hz)									
	Rated voltage (V)	6.3	10	16	25	35	50	63	80	100
	Impedance ratio (max.)	Z-25°C/Z+20°C	2	2	2	2	2	2	2	2
		Z-40°C/Z+20°C	3	3	3	3	3	3	3	3
Z-55°C/Z+20°C		8	4	4	3	3	3	3	3	
Endurance (105°C)	(120Hz)									
	Test time	2000 hours (6.3 to 50V 10.5L : 5000 hours)								
	Leakage current	The initial specified value or less								
	Percentage of capacitance change	Within ±30% of initial value								
Shelf life (105°C)	Tangent of the loss angle	200% or less of initial specified value (6.3 to 50V 10.5L : 300% or less)								
	Test time : 1000 hours ; other items are the same as those for the endurance. Voltage application treatment : According to JIS C5101-1									
Applicable standards	JIS C 5101-1 1998, -18 1999/IEC 60384-1 1992, -18 1993)									

Outline Drawing

Unit : mm



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

Coefficient of Frequency for Rated Ripple Current

Frequency (Hz)	50	120	1k	10k~100k
Rated voltage (V)				
6.3 to 100	0.5	0.5	0.75	1

Part numbering system (example : 16V100μF)

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

In the case of "for High Temperature Reflow" type, a series name is "RZB".

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.)	(mA _{rms})	φD×L (mm)		(Ω max.)	(mA _{rms})	φD×L (mm)		(Ω max.)	(mA _{rms})
10	—	—	—	—	—	—	—	—	—	4×5.8	D61	1.35	90
22	4×5.8	D61	1.35	90	4×5.8	D61	1.35	90	90	4×5.8	D61	1.35	90
33	—	—	—	—	—	4×5.8	D61	1.35	90	5×5.8	E61	0.70	170
47	4×5.8	D61	1.35	90	5×5.8	E61	0.70	170	170	—	—	—	—
100	5×5.8	E61	0.70	170	—	—	—	—	—	5×5.8	E61	0.70	170
220	6.3×5.8	F61	0.36	250	—	—	—	—	—	6.3×5.8	F61	0.36	250
330	6.3×5.8	F61	0.36	250	6.3×7.7	F80	0.30	300	300	6.3×7.7	F80	0.30	300
470	8×10.5	GA5	0.16	600	8×6.5	G68	0.30	300	300	8×6.5	G68	0.30	300
680	—	—	—	—	8×10.5	GA5	0.16	600	600	8×10.5	GA5	0.16	600
1000	8×10.5	GA5	0.16	600	8×10.5	GA5	0.16	600	600	8×10.5	GA5	0.16	600
1500	10×10.5	HA5	0.08	850	8×10.5	GA5	0.16	600	600	10×10.5	HA5	0.08	850
					10×10.5	HA5	0.08	850	850	—	—	—	—

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.)	(mA _{rms})	φD×L (mm)		(Ω max.)	(mA _{rms})	φD×L (mm)		(Ω max.)	(mA _{rms})
4.7	—	—	—	—	—	4×5.8	D61	1.35	90	4×5.8	D61	2.7	60
10	4×5.8	D61	1.35	90	4×5.8	D61	1.35	90	90	5×5.8	E61	1.5	90
22	5×5.8	E61	0.70	170	5×5.8	E61	0.70	170	170	6.3×5.8	F61	0.86	170
33	5×5.8	E61	0.70	170	6.3×5.8	F61	0.36	250	250	6.3×7.7	F80	0.66	195
47	6.3×5.8	F61	0.36	250	6.3×5.8	F61	0.36	250	250	8×6.5	G68	0.63	200
100	6.3×7.7	F80	0.30	300	6.3×7.7	F80	0.30	300	300	6.3×7.7	F80	0.66	195
220	8×10.5	GA5	0.16	600	8×10.5	GA5	0.16	600	600	8×6.5	G68	0.63	200
330	8×10.5	GA5	0.16	600	10×10.5	HA5	0.08	850	850	8×10.5	GA5	0.32	350
470	10×10.5	HA5	0.08	850	—	—	—	—	—	10×10.5	HA5	0.18	700
					—	—	—	—	—	—	—	—	—

Rated voltage (V)	Item	63				80				100			
		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.)	(mA _{rms})	φD×L (mm)		(Ω max.)	(mA _{rms})	φD×L (mm)		(Ω max.)	(mA _{rms})
4.7	5×5.8	E61	3	50	—	—	—	—	—	—	—	—	—
10	6.3×5.8	F61	1.5	80	6.3×7.7	F80	2.4	60	60	—	—	—	—
22	6.3×7.7	F80	1.2	120	8×10.5	GA5	0.9	130	130	8×10.5	GA5	1.3	130
33	8×10.5	GA5	0.65	250	8×10.5	GA5	0.9	130	130	10×10.5	HA5	0.7	200
47	8×10.5	GA5	0.65	250	10×10.5	HA5	0.5	200	200	—	—	—	—
68	8×10.5	GA5	0.65	250	—	—	—	—	—	—	—	—	—
100	10×10.5	HA5	0.35	400	—	—	—	—	—	—	—	—	—

(Note) Impedance : 20°C, 100kHz
Rated ripple current : 105°C, 100kHz
8×10.5, 10×10.5 are producible in 8×10(casing symbol : G10), 10×10(casing symbol : H10).

NOTE

Design, Specifications are subject to change without notice.
Ask factory for technical specifications before purchase and/or use.