

Chip Type 125°C Use, Low ESR, For Vibration Capacitors

GREEN
CAP

SMD

Vibration
Resistance

Low ESR

125°C
2000hours

Anti-
cleaning
solvent

- Compatible with surface mounting.
- For Vibration resistance. (30G guaranteed)
- Supplied with carrier taping.
- Guarantees 2000 hours at 125°C.
($\phi 12.5$ or more : 5000h)

Vibration resistance



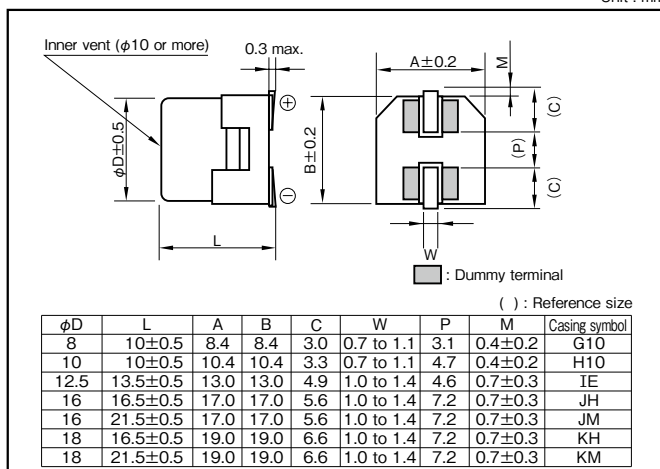
Marking color : Black print

Specifications

Item	Performance									
Category temperature range (°C)	-40 to +125									
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)		10	16	25	35	50	63	80	100
	Tangent of loss angle		0.24	0.20	0.16	0.14	0.14	0.12	0.12	0.10
	0.02 is added to every 1000μF increase over 1000μF (20°C, 120Hz)									
Characteristics at high and low temperature	Rated voltage (V)		10	16	25	35	50	63	80	100
	Impedance ratio (max.)	Z-25°C/Z+20°C	3	2	2	2	2	2	2	2
		Z-40°C/Z+20°C	4	3	3	3	3	3	3	3
(120Hz)										
Endurance (125°C)	Test time		2000 hours (φ 12.5 or more : 5000h)							
	Leakage current		The initial specified value or less							
	Percentage of capacitance change		Within ±30% of initial value							
	Tangent of loss angle		300% or less of the initial specified value							
Shelf life (125°C)	Test time : 1000hours ; other items are same as the endurance. Voltage application treatment : According to JIS C5101-4									
Applicable standards	JIS C5101-1 1998, -18 1999 (IEC 60384-1 1992, -18 1993)									

Outline Drawing

Unit : mm



Coefficient of Frequency for Rated Ripple Current

Frequency (Hz)	120	1k	10k	100k
Rated voltage (V)				
10 to 100	0.77	0.88	0.96	1

Part numbering system

$\phi 8, \phi 10$ (example : 35V100 μF)

RTT	35	V	101	M	H10	SU	
Series code	Rated voltage symbol	Rated capacitance symbol	Capacitance tolerance symbol	Casing symbol	Taping symbol		

$\phi 12.5$ or more (example : 35V1000 μF)

RTT	35	V	102	M	KM	T	
Series code	Rated voltage symbol	Rated capacitance symbol	Capacitance tolerance symbol	Casing symbol	Taping symbol		

If "Standard (terminal)" type is required, please see the series RVT of page 78.

- 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	10				16				25				35				50			
		Case	ESR (Ω max.)		Rated ripple current	Case	ESR (Ω max.)		Rated ripple current	Case	ESR (Ω max.)		Rated ripple current	Case	ESR (Ω max.)		Rated ripple current	Case	ESR (Ω max.)		Rated ripple current
Rated capacitance (μF)		φD × L (mm)	20℃	− 40℃	(mArms)	φD × L (mm)	20℃	− 40℃	(mArms)	φD × L (mm)	20℃	− 40℃	(mArms)	φD × L (mm)	20℃	− 40℃	(mArms)	φD × L (mm)	20℃	− 40℃	(mArms)
100		—	—	—	—	—	—	—	—	—	—	—	—	8×10	0.20	2.0	340	10×10	0.15	1.5	500
220		—	—	—	—	8×10	0.20	2.0	340	8×10	0.20	2.0	340	8×10	0.20	2.0	340	12.5×13.5	0.18	2.7	550
						10×10	0.15	1.5	500	10×10	0.15	1.5	500	10×10	0.15	1.5	500	12.5×13.5	0.18	2.7	550
330		8×10	0.20	2.0	340	10×10	0.15	1.5	500	10×10	0.15	1.5	500	12.5×13.5	0.086	1.29	750	16×16.5	0.12	1.8	850
		10×10	0.15	1.5	500					12.5×13.5	0.086	1.29	750	16×16.5	0.060	0.90	1000				
470		10×10	0.15	1.5	500	12.5×13.5	0.086	1.29	750	12.5×13.5	0.086	1.29	750	16×16.5	0.060	0.90	1000	18×16.5	0.10	1.5	920
680		12.5×13.5	0.086	1.29	750	12.5×13.5	0.086	1.29	750	16×16.5	0.060	0.90	1000	18×16.5	0.050	0.75	1200	—	—	—	—
						16×16.5	0.060	0.90	1000	18×16.5	0.050	0.75	1200								
1000		12.5×13.5	0.086	1.29	750	18×16.5	0.050	0.75	1200	18×21.5	0.042	0.63	1550	18×21.5	0.042	0.63	1550	—	—	—	—
2200		16×16.5	0.060	0.90	1000	18×16.5	0.050	0.75	1200	—	—	—	—	—	—	—	—	—	—	—	—
3300		18×16.5	0.050	0.75	1200	18×21.5	0.042	0.63	1550	—	—	—	—	—	—	—	—	—	—	—	—
4700		18×21.5	0.042	0.63	1550	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Rated voltage (V)	Item	63			80			100					
		Case	ESR (Ω max.)		Rated ripple current	Case	ESR (Ω max.)		Rated ripple current	Case	ESR (Ω max.)		Rated ripple current
Rated capacitance (μF)		φD × L (mm)	20℃	− 40℃	(mArms)	φD × L (mm)	20℃	− 40℃	(mArms)	φD × L (mm)	20℃	− 40℃	(mArms)
47		—	—	—	—	—	—	—	—	12.5×13.5	0.32	4.8	300
100		12.5×13.5	0.25	3.75	400	16×16.5	0.24	3.6	480	16×16.5	0.24	3.6	480
220		16×16.5	0.22	3.3	500	16×21.5	0.18	2.7	600	18×21.5	0.16	2.4	700
330		16×16.5	0.22	3.3	500	18×21.5	0.12	1.8	1000	—	—	—	—
470		16×21.5	0.16	2.4	650	—	—	—	—	—	—	—	—

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