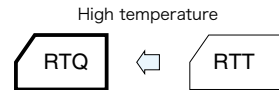


Chip Type 150°C Use, Low ESR, For Vibration Capacitors

GREEN CAP SMD Vibration Resistance Low ESR 150°C 1000hours Anti-cleaning solvent

- Compatible with surface mounting.
- For Vibration resistance. (30G guaranteed)
- Supplied with carrier taping.
- Guaranteed 1000 hours at 150°C.

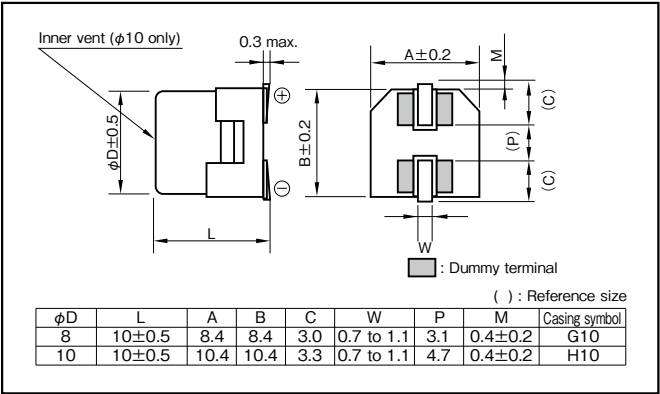


Marking color : Black print

Specifications

Item	Performance
Category temperature range (°C)	-40 to +150
Tolerance at rated capacitance (%)	±20 (20°C,120Hz)
Leakage current (µA)	Less than 0.02CV 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)
	tanδ (max.)
Characteristics at high and low temperature	Rated voltage (V)
	Impedance ratio (max.)
	Z-25°C/Z+20°C
	Z-40°C/Z+20°C
Endurance (150°C)	Test time
	Leakage current
	Percentage of capacitance change
	Tangent of loss angle
	Shelf life (150°C)
Applicable standards	JIS C5101-1 1998, -18 1999 (IEC 60384-1 1992, -18 1993)

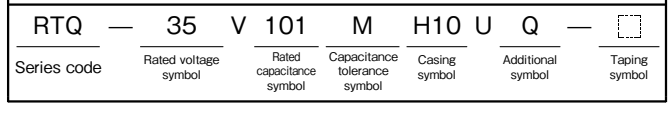
Outline Drawing



Coefficient of Frequency for Rated Ripple Current

Frequency (Hz)	120	1k	10k	100k
Rated voltage (V)				
10 to 35	0.77	0.88	0.96	1

Part numbering system



- 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 capacitance (mF)	10					16					25				
	Item	Case	Casing symbol	ESR Ω (max.)	Rated ripple current (mA Arms)	Case	Casing symbol	ESR Ω (max.)	Rated ripple current (mA Arms)	Case	Casing symbol	ESR Ω (max.)	Rated ripple current (mA Arms)		
		φD×L (mm)												φD×L (mm)	φD×L (mm)
47	—	—	—	—	8 × 10	G10	0.70	120	8 × 10	G10	0.70	120			
68	—	—	—	—	8 × 10	G10	0.70	120	8 × 10	G10	0.70	120			
100	8 × 10	G10	0.70	120	8 × 10	G10	0.70	120	8 × 10	G10	0.70	120			
150	—	—	—	—	10 × 10	H10	0.40	160	10 × 10	H10	0.40	160			
220	8 × 10	G10	0.70	120	10 × 10	H10	0.40	160	10 × 10	H10	0.40	160			
330	10 × 10	H10	0.40	160	10 × 10	H10	0.40	160	—	—	—	—			
470	10 × 10	H10	0.40	160	—	—	—	—	—	—	—	—			

Rated capacitance (mF)	35				
	Item	Case	Casing symbol	ESR Ω (max.)	Rated ripple current (mA Arms)
		φD×L (mm)			
33	8 × 10	G10	0.70	120	
47	8 × 10	G10	0.70	120	
68	8 × 10	G10	0.70	120	
100	10 × 10	H10	0.40	160	
150	10 × 10	H10	0.40	160	

(Note) Rated ripple current : 150°C , 100kHz ; ESR : 20°C , 100kHz

NOTE : Design, Specifications are subject to change without notice. It is recommended that you shall obtain technical specifications from ELNA to ensure that the component is suitable for your use.