

Chip Type 125°C Capacitors

SMD	Vibration Resistance	125°C 1250hours	105°C 5000hours	Anti-cleaning solvent
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- Compatible with surface mounting.
- For Vibration resistance.
- Supplied with carrier taping.
- Guarantees 1250 hours at 125°C.
(φ8 : 1000 hours)
- Guarantees 5000 hours at 105°C.
(φ8 : 4000 hours)



Vibration resistance



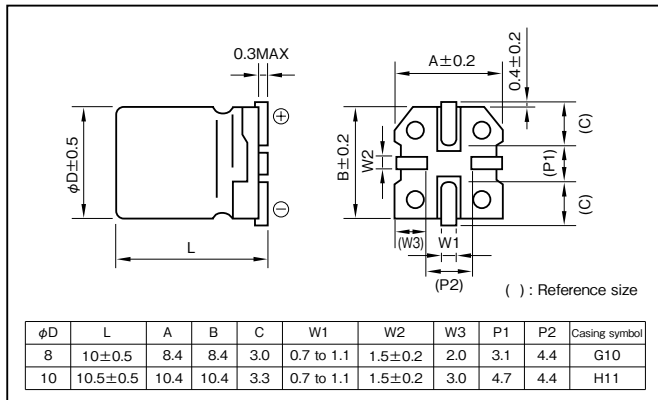
Marking color : Gold print on a brown sleeve

Specifications

Item	Performance						
Category temperature range (°C)	-40 to +125						
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)	10	16	25	35	50	63
	tanδ (max.)	0.28	0.26	0.24	0.20	0.19	0.18
	(20°C,120Hz)						
Characteristics at high and low temperature							
	Rated voltage (V)	10	16	25	35	50	63
	Impedance ratio (max.)	Z-25°C/Z+20°C	3	3	3	3	3
		Z-40°C/Z+20°C	5	5	5	5	5
	(120Hz)						
Endurance (Applied ripple current)							
	Test temp.	125°C			105°C		
	Test time	φ8 : 1000h, φ10 : 1250h			φ8 : 4000h, φ10 : 5000h		
	Leakage current	The initial specified value or less					
	Percentage of capacitance change	Within ±30% of initial value					
	Tangent of the loss angle	300% or less of the initial specified value					
Shelf life							
	Test temp.	125°C			105°C		
	Test time	500 h			1000h		
	Leakage current	The initial specified value or less					
	Percentage of capacitance change	Within ±20% of initial value					
	Tangent of the loss angle	200% or less of the initial specified value					
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 63	0.77	0.88	0.96	1

Part numbering system (example : 16V220μF)

RTK	—	16	V	221	M	H11	U	□
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)	10				16				25				35				50				63			
	Case	ESR	Impedance	Rated ripple current	Case	ESR	Impedance	Rated ripple current	Case	ESR	Impedance	Rated ripple current	Case	ESR	Impedance	Rated ripple current	Case	ESR	Impedance	Rated ripple current	Case	ESR	Impedance	Rated ripple current
Rated capacitance (μF)	φD×L (mm)	(Ω)	(Ω max.)	(mA rms)	φD×L (mm)	(Ω)	(Ω max.)	(mA rms)	φD×L (mm)	(Ω)	(Ω max.)	(mA rms)	φD×L (mm)	(Ω)	(Ω max.)	(mA rms)	φD×L (mm)	(Ω)	(Ω max.)	(mA rms)	φD×L (mm)	(Ω)	(Ω max.)	(mA rms)
10	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	8×10	32	0.80	38	—	—	—	—
22	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	8×10	14	0.80	38	8×10	14	1.00	33
33	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	10×10.5	14	0.65	48	10×10.5	14	0.67	48
47	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	8×10	10	0.80	40	—	—	—	—
100	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	10×10.5	10	0.60	58	—	—	—	—
220	8×10	2.1	0.68	60	8×10	4.3	0.68	60	8×10	4.0	0.68	60	10×10.5	7.1	0.58	70	8×10	6.7	0.80	40	—	—	—	—
330	10×10.5	2.1	0.55	111	10×10.5	2.0	0.55	107	10×10.5	1.8	0.55	107	—	—	—	—	—	—	—	—	—	—	—	—
	10×10.5	1.4	0.55	111	10×10.5	1.3	0.55	111	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

(Note) Rated ripple current : 125°C, 100kHz ; Impedance : 20°C, 100kHz ; ESR : 20°C, 120Hz

Mouser Electronics

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