Chip Type, 105°C Use, Large Capacitance Capacitors

SMD | Vibration Resistance | 105°C 2000hours | Anti-cleaning solvent

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

RTJ

Vibration resistance

RVJ

Marking color : White print on a brown sleeve

Specifications

Item	Performance
Category temperature range (℃)	−55 to +105
Tolerance at rated capacitance (%)	±20 (20℃,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℃)
Tangent of loss angle (tanδ)	
Characteristics at high and low temperature	
Endurance (105℃) (Applied ripple current)	
Shelf life (105℃)	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 C5101-1 1998, -18 1999 (IEC 60384-1 1992, -18 1993)

Tangent of loss angle (tanδ):

Rated voltage (V)	6.3	10	16	25	35	50	63	100
tanδ (max.)	0.30	0.26	0.22	0.16	0.13	0.12	0.11	0.10

(20℃,120Hz)

Characteristics at high and low temperature:

Rated voltage (V)		6.3	10	16	25	35	50	63	100
Impedance ratio (max.)	Z−25℃/Z+20℃	4	3	2	2	2	2	2	2
	Z−40℃/Z+20℃	8	5	4	3	3	3	3	3

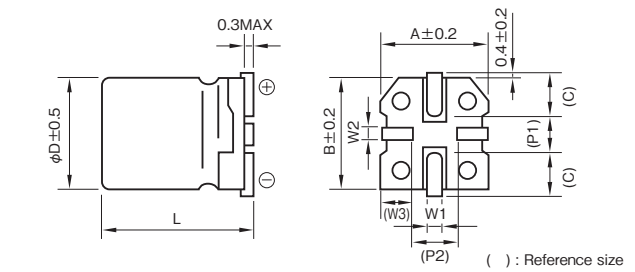
(120Hz)

Endurance (105℃) (Applied ripple current):

Test time	2000 hours
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

Outline Drawing

Unit : mm



φD	L	A	B	C	W1	W2	W3	P1	P2	Casing symbol
8	10±0.5	8.4	8.4	3.0	0.7 to 1.1	1.5±0.2	2.0	3.1	4.4	G10
10	10.5±0.5	10.4	10.4	3.3	0.7 to 1.1	1.5±0.2	3.0	4.7	4.4	H11

- 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

Rated voltage (V) \ Frequency (Hz)	50・60	120	1k	10k・100k
6.3 to 16	0.80	1	1.15	1.25
25 to 35	0.80	1	1.25	1.40
50 to 63	0.80	1	1.35	1.50
100	0.70	1	1.35	1.50

Part numbering system (example: 25V220μF)

RTJ	—	25	V	221	M	H11	U	—	☐
Series code		Rated voltage symbol		Rated capacitance symbol	Capacitance tolerance symbol	Casing symbol			Taping symbol

Standard Ratings

Rated capacitance (μF) \ Rated voltage (V) / Item	6.3				10				16				25				35				50				63				100			
	Case φD(mm)	Casing symbol	ESR (Ω)	Rated ripple current (mArms)	Case φD(mm)	Casing symbol	ESR (Ω)	Rated ripple current (mArms)	Case φD(mm)	Casing symbol	ESR (Ω)	Rated ripple current (mArms)	Case φD(mm)	Casing symbol	ESR (Ω)	Rated ripple current (mArms)	Case φD(mm)	Casing symbol	ESR (Ω)	Rated ripple current (mArms)	Case φD(mm)	Casing symbol	ESR (Ω)	Rated ripple current (mArms)	Case φD(mm)	Casing symbol	ESR (Ω)	Rated ripple current (mArms)	Case φD(mm)	Casing symbol	ESR (Ω)	Rated ripple current (mArms)
10	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	8×10	G10	16.6	67
22	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	8×10	G10	8.3	99	10×10.5	H11	7.5	133
33	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	8×10	G10	6.0	178	10×10.5	H11	5.5	160	—	—	—	—
47	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	8×10	G10	4.6	178	8×10	G10	4.2	178	10×10.5	H11	3.9	160	—	—	—	—
100	—	—	—	—	—	—	—	—	8×10	G10	3.6	178	8×10	G10	2.7	178	10×10.5	H11	2.2	324	10×10.5	H11	2.0	324	—	—	—	—	—	—	—	—
220	8×10	G10	2.3	178	8×10	G10	2.0	178	10×10.5	H11	1.7	324	10×10.5	H11	1.2	324	10×10.5	H11	0.98	324	—	—	—	—	—	—	—	—	—	—	—	—
330	8×10	G10	1.5	178	10×10.5	H11	1.3	324	10×10.5	H11	1.1	324	10×10.5	H11	0.80	324	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
470	10×10.5	H11	1.0	324	10×10.5	H11	0.92	324	10×10.5	H11	0.78	324	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

(Note) Rated ripple current : 105℃, 120Hz ; ESR : 20℃, 120Hz

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