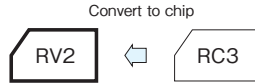


ChipType Standard Capacitors (height:5.5mm)

GREEN CAP SMD Anti-cleaning solvent

- Compatible with surface mounting for 5.5mm high capacitors.
- Supplied with carrier taping.
- Guarantees 2000 hours at 85°C.



Marking color : Black print

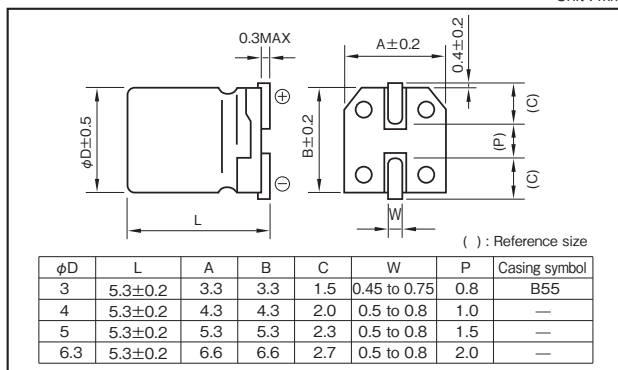
Specifications

Item	Performance	
Category temperature range (°C)	-40 to +85	
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)	
	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
	φ4 to φ6.3	Z-25°C/Z+20°C
Z-40°C/Z+20°C		
Endurance (85°C) (Applied ripple current)	Test time	
	Leakage current	
	Percentage of capacitance change	
	Tangent of the loss angle	
Shelf life (85°C)	Test time : 1000hours ; 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)	

Aluminum Electrolytic Capacitors Chip Type

Outline Drawing

Unit : mm

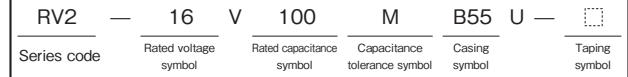


Coefficient of Frequency for Rated Ripple Current

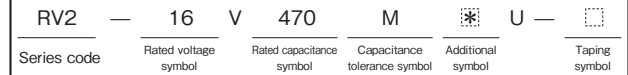
Rated voltage (V)	Frequency (Hz)	50 · 60	120	1k	10k · 100k
4 to 16	25 to 35	0.80	1	1.15	1.25
	50	0.80	1	1.35	1.50

Part numbering system

• φ3 (example : 16V10µF)



• φ4 to φ6.3 (example : 16V47µF)



*Should add "S", when there is a black point in standard ratings.

- 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)	4				6.3				10				16				25				35				50				
	Case φD (mm)	Casing symbol	ESR (Ω)	Rated ripple current (mA)	Case φD (mm)	Casing symbol	ESR (Ω)	Rated ripple current (mA)	Case φD (mm)	Casing symbol	ESR (Ω)	Rated ripple current (mA)	Case φD (mm)	Casing symbol	ESR (Ω)	Rated ripple current (mA)	Case φD (mm)	Casing symbol	ESR (Ω)	Rated ripple current (mA)	Case φD (mm)	Casing symbol	ESR (Ω)	Rated ripple current (mA)	Case φD (mm)	Casing symbol	ESR (Ω)	Rated ripple current (mA)	
0.1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
0.22	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
0.33	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
0.47	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2.2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
3.3	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
4.7	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
10	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
22	3	B55	32	14	4	—	21	31	5	—	18	39	5	—	15	44	6.3	—	11	55	6.3	—	9.1	59	—	—	—	—	—
33	4	—	21	31	5	—	14	44	5	—	12	48	6.3	—	10	63	6.3	—	7.0	67	—	—	—	—	—	—	—	—	—
47	4	—	15	37	5	—	10	52	6.3	—	8.5	67	6.3	—	7.1	75	—	—	—	—	—	—	—	—	—	—	—	—	—
100	5	—	7.0	63	6.3	—	5.0	89	6.3	—	4.0	98	•6.3	—	3.3	103	—	—	—	—	—	—	—	—	—	—	—	—	—
220	6.3	—	3.2	110	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

(Note) Rated ripple current : 85°C, 120Hz ; ESR : 20°C, 120Hz