

## Chip Type Standard Capacitors (height:5.5mm) Series RV2

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

Convert to chip



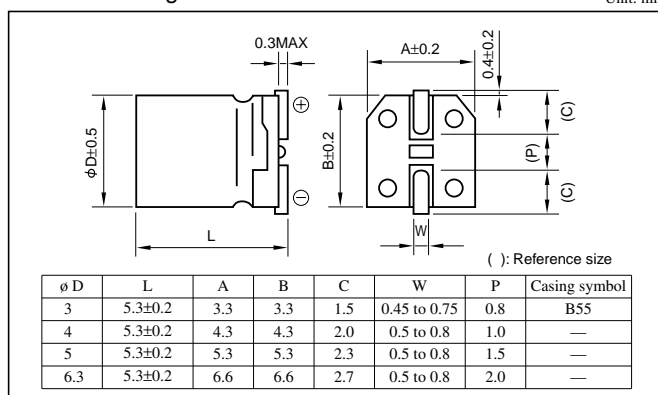
Marking color : Black print

## 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)			4	6.3	10	16	25	35	50
	tanδ (max.)	ø 3		0.42	0.30	0.24	0.22	0.16	0.14	0.12
		ø 4 to ø 6.3		0.42	0.28	0.24	0.20	0.14	0.12	0.10
Characteristics at high and low temperature	Rated voltage (V)			4	6.3	10	16	25	35	50
	Impedance ratio (max.)	ø 3	Z-25°C / Z+20°C	7	4	3	2	2	2	2
			Z-40°C / Z+20°C	17	10	8	6	4	3	3
		ø 4 to ø 6.3	Z-25°C / Z+20°C	7	3	3	2	2	2	2
			Z-40°C / Z+20°C	15	8	5	4	3	3	3
Endurance (85°C) (Applied ripple current)	Test time			2000 hours (ø 3:1000 hours)						
	Leakage current			The initial specified value or less						
	Percentage of capacitance change			Within ±20% of initial value (4WV: ±30%)						
	Tangent of the loss angle			200% or less of the initial specified value (4WV: 300%)						
Shelf life (85°C)	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, -18 1998 (IEC 60384-1 1992, -18 1993)									

## Outline Drawing

Unit: mm



- Soldering conditions and land size are described on page 14.
- The taping specifications are described on page 15.

## Standard Ratings

Rated voltage (V)	4				6.3				10				16				25				35				50			
	Case	Casing symbol	ESR	Rated ripple current	Case	Casing symbol	ESR	Rated ripple current	Case	Casing symbol	ESR	Rated ripple current	Case	Casing symbol	ESR	Rated ripple current	Case	Casing symbol	ESR	Rated ripple current	Case	Casing symbol	ESR	Rated ripple current	Case	Casing symbol	ESR	Rated ripple current
Rated capacitance (μF)	φ D(mm)		Ω	mArms	φ D(mm)		Ω	mArms	φ D(mm)		Ω	mArms	φ D(mm)		Ω	mArms	φ D(mm)		Ω	mArms	φ D(mm)		Ω	mArms	φ D(mm)		Ω	mArms
0.1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
0.22	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
0.33	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
0.47	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2.2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
3.3	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
4.7	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
10	—	—	—	—	—	—	—	—	4	—	40	23	3	B55	37	18	5	—	23	32	5	—	20	34	6.3	—	17	44
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

## NOTE

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

## Coefficient of Frequency for Rated Ripple Current

Rated voltage(V)	Frequency(Hz)			
	50 · 60	120	1k	10k · 100k
4 to 16	0.80	1	1.15	1.25
25 to 35	0.80	1	1.25	1.40
50	0.80	1	1.35	1.50

## Part numbering system

Environmental item	• φ3 (example: 16V10μF) RV2 — 16 V 100 M B55 □ U — □ Series code Rated voltage symbol Rated capacitance symbol Capacitance tolerance symbol Casing symbol Additional symbol Taping symbol						
	• φ4 to φ6.3 (example: 16V47μF) RV2 — 16 V 470 M □ U — □ Series code Rated voltage symbol Rated capacitance symbol Capacitance tolerance symbol Casing symbol Additional symbol Taping symbol						
Former item	• φ3 (example: 16V10μF) RV2 — 16 V 100 M B55 □ — □ Series code Rated voltage symbol Rated capacitance symbol Capacitance tolerance symbol Casing symbol Additional symbol Taping symbol						
	• φ4 to φ6.3 (example: 16V47μF) RV2 — 16 V 470 M □ — □ Series code Rated voltage symbol Rated capacitance symbol Capacitance tolerance symbol Casing symbol Additional symbol Taping symbol						

- For 16V 100μF, "S" is suffixed to the tolerance, as MS□-□-□

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