

Chip Type 105°C Capacitors (height:5.5mm) Series RVS

- Compatible with surface mounting for 5.5mm high capacitors.
- Supplied with carrier taping.
- Guarantees 1000 hours at 105°C.

RVS

High temperature

RV2



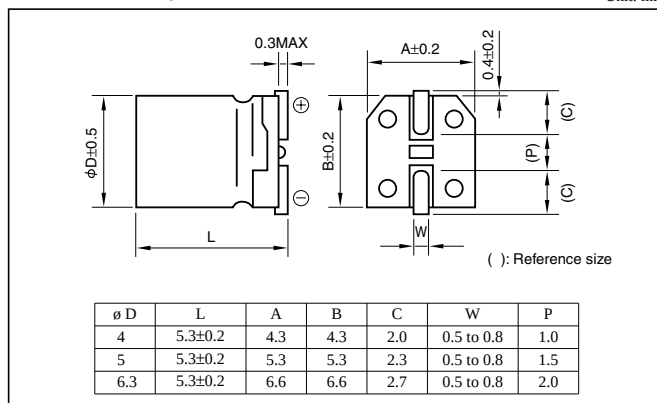
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Specifications

Item	Performance																																		
Category temperature range (°C)	-55 to +105																																		
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)	<table><tr><td>Rated voltage (V)</td><td>6.3</td><td>10</td><td>16</td><td>25</td><td>35</td><td>50</td></tr><tr><td>tanδ (max.)</td><td>0.30</td><td>0.26</td><td>0.22</td><td>0.16</td><td>0.13</td><td>0.12</td></tr></table> (20°C,120Hz)							Rated voltage (V)	6.3	10	16	25	35	50	tanδ (max.)	0.30	0.26	0.22	0.16	0.13	0.12														
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Characteristics at high and low temperature	<table><tr><td>Rated voltage (V)</td><td>6.3</td><td>10</td><td>16</td><td>25</td><td>35</td><td>50</td></tr><tr><td rowspan="2">Impedance ratio (max.)</td><td>Z-25°C / Z+20°C</td><td>4</td><td>3</td><td>2</td><td>2</td><td>2</td></tr><tr><td>Z-40°C / Z+20°C</td><td>8</td><td>5</td><td>4</td><td>3</td><td>3</td></tr></table> (120Hz)							Rated voltage (V)	6.3	10	16	25	35	50	Impedance ratio (max.)	Z-25°C / Z+20°C	4	3	2	2	2	Z-40°C / Z+20°C	8	5	4	3	3								
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Endurance (105°C) (Applied ripple current)	<table><tr><td>Test time</td><td colspan="6">1000 hours</td></tr><tr><td>Leakage current</td><td colspan="6">The initial specified value or less</td></tr><tr><td>Percentage of capacitance change</td><td colspan="6">Within ±20% of initial value</td></tr><tr><td>Tangent of the loss angle</td><td colspan="6">200% or less of the initial specified value</td></tr></table>							Test time	1000 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					
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Shelf life (105°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



Coefficient of Frequency for Rated Ripple Current

Frequency(Hz)	50 · 60	120	1k	10k · 100k
Rated voltage(V)				
6.3 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 (example: 16V47μF)

Environmental item	RVS	16	V	470	M	U	
	Series code	Rated voltage symbol	Rated capacitance symbol	Capacitance tolerance symbol	Additional symbol	Taping symbol	
Former item	RVS	16	V	470	M		
	Series code	Rated voltage symbol	Rated capacitance symbol	Capacitance tolerance symbol	Additional symbol	Taping symbol	

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

Standard Ratings

Rated voltage(V)		6.3			10			16			25			35			50		
Rated capacitance(μF)	Item	Case	ESR	Rated ripple current	Case	ESR	Rated ripple current	Case	ESR	Rated ripple current	Case	ESR	Rated ripple current	Case	ESR	Rated ripple current	Case	ESR	Rated ripple current
		ø D(mm)	Ω	mArms	ø D(mm)	Ω	mArms	ø D(mm)	Ω	mArms	ø D(mm)	Ω	mArms	ø D(mm)	Ω	mArms	ø D(mm)	Ω	mArms
0.1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	4	1190	2
0.22	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	4	905	3
0.33	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	4	603	4
0.47	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	4	424	5
1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	4	199	7
2.2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	4	91	10
3.3	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	4	60	12
4.7	—	—	—	—	—	—	—	—	—	—	4	57	12	4	46	14	5	42	17
10	—	—	—	—	4	43	15	4	36	16	5	27	21	5	22	23	6.3	20	26
22	4	23	21	5	5	20	25	5	17	28	6.3	12	36	6.3	10	50	—	—	—
33	5	15	30	5	5	13	31	6.3	11	40	6.3	8.0	44	—	—	—	—	—	—
47	5	11	36	6.3	6.3	9.2	43	6.3	7.8	47	—	—	—	—	—	—	—	—	—
100	6.3	5.0	61	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

(Note) Rated ripple current : 105°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.