

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.



Marking color : Black print

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)	Rated voltage (V)	6.3	10	16	25	35	50		
	tanδ (max.)	0.30	0.26	0.22	0.16	0.13	0.12	(20°C,120Hz)	
Characteristics at high and low temperature	Impedance ratio (max.)	Rated voltage (V)	6.3	10	16	25	35	50	
		Z-25°C / Z+20°C	4	3	2	2	2	2	(120Hz)
Endurance (105°C) (Applied ripple current)	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							
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

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	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 capacitance(µF)	6.3			10			16			25			35			50		
	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
Item	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	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	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	42	17
10	—	—	—	4	43	15	4	36	16	5	27	21	5	22	23	6.3	20	26
22	4	23	21	5	20	25	5	17	28	6.3	12	36	6.3	10	50	—	—	—
33	5	15	30	5	13	31	6.3	11	40	6.3	8.0	44	—	—	—	—	—	—
47	5	11	36	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