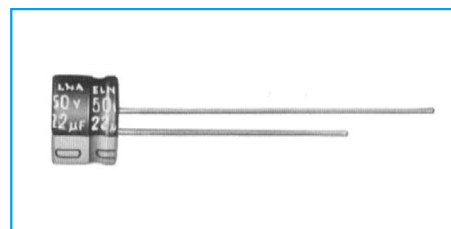


## 5mm L Standard Capacitors

GREEN  
CAP

• Diameters from  $\phi 3$  to  $\phi 8$ mm and a height of 5mm.



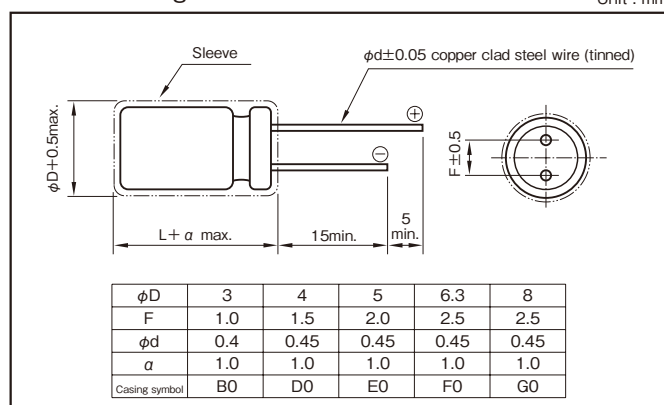
Marking color : White print on a blue sleeve ( $\phi 3$ : black sleeve)

## 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.)	φ3 to φ6.3	0.35	0.24	0.20	0.16	0.14	0.12	0.10
		φ8	0.39	0.28	0.24	0.16	0.14	0.12	0.10
		(20°C,120Hz)							
Characteristics at high and low temperature	Rated voltage (V)		4	6.3	10	16	25	35	50
	Impedance ratio (max.)	Z-25°C/Z+20°C	6	4	3	2	2	2	2
		Z-40°C/Z+20°C	16	10	8	6	4	4	4
		(120Hz)							
Endurance (85°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 (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, -4 1998 (IEC 60384-1 1992, -4 1985)								

## Outline Drawing

Unit : mm



## Coefficient of Frequency for Rated Ripple Current

Frequency (Hz)	50 · 60	120	1k	10k · 100k
Rated voltage (V)				
4 to 16	0.8	1	1.1	1.2
25 to 35	0.8	1	1.5	1.7
50	0.8	1	1.6	1.9

## Part numbering system (example : 6.3V100 $\mu F$ )

RC3	—	6	V	101	M	F0	#	
Series code		Rated voltage symbol		Rated capacitance symbol	Capacitance tolerance symbol	Casing symbol		Additional symbol

## Standard Ratings

Rated voltage (V)	4		6.3		10		16		25		35		50	
	Case	Rated ripple current	Case	Rated ripple current	Case	Rated ripple current	Case	Rated ripple current	Case	Rated ripple current	Case	Rated ripple current	Case	Rated ripple current
Rated capacitance ( $\mu F$ )	$\phi D \times L$ (mm)	mArms	$\phi D \times L$ (mm)	mArms	$\phi D \times L$ (mm)	mArms	$\phi D \times L$ (mm)	mArms	$\phi D \times L$ (mm)	mArms	$\phi D \times L$ (mm)	mArms	$\phi D \times L$ (mm)	mArms
0.1	—	—	—	—	—	—	—	—	—	—	—	—	• 4×5	3 (3)
0.22	—	—	—	—	—	—	—	—	—	—	—	—	• 4×5	5 (4)
0.33	—	—	—	—	—	—	—	—	—	—	—	—	• 4×5	6 (5)
0.47	—	—	—	—	—	—	—	—	—	—	—	—	• 4×5	7 (6)
1	—	—	—	—	—	—	—	—	—	—	—	—	• 4×5	10 (8)
2.2	—	—	—	—	—	—	—	—	—	—	• 4×5	14 (11)	4×5	15
3.3	—	—	—	—	—	—	—	—	• 4×5	15 (13)	4×5	17	4×5	18
4.7	—	—	—	—	—	—	• 4×5	17 (14)	4×5	18	4×5	20	5×5	25
10	—	—	• 4×5	20 (17)	4×5	22	4×5	25	5×5	30	5×5	30	6.3×5	40
22	• 4×5	25 (21)	4×5	30	5×5	35	5×5	40	6.3×5	50	6.3×5	55	8×5	75
33	4×5	30	5×5	40	5×5	45	6.3×5	60	6.3×5	65	8×5	80	8×5	90
47	4×5	35	5×5	50	6.3×5	65	6.3×5	70	8×5	95	8×5	100	—	—
100	5×5	60	6.3×5	85	6.3×5	95	8×5	125	8×5	135	—	—	—	—
220	6.3×5	105	8×5	145	8×5	155	—	—	—	—	—	—	—	—
330	8×5	150	8×5	175	—	—	—	—	—	—	—	—	—	—
470	8×5	180	—	—	—	—	—	—	—	—	—	—	—	—

(Note) Rated ripple current : 85°C, 120Hz ; The types of capacitor marked with a black circle are manufactured in the  $\phi 3 \times 5$  size also ; the figures in the parentheses are applicable to capacitors with  $\phi 3$ .

## NOTE

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

5mm L, 105°C Use Capacitors

GREEN  
CAP

105°C  
1000hours

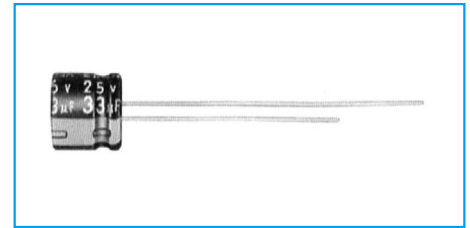
Anti-  
cleaning  
solvent

- Diameters from  $\phi 4$  to  $\phi 6.3$ mm and a height of 5mm.
- Guarantees 1000 hours at 105°C.

R3S

High temperature

RC3



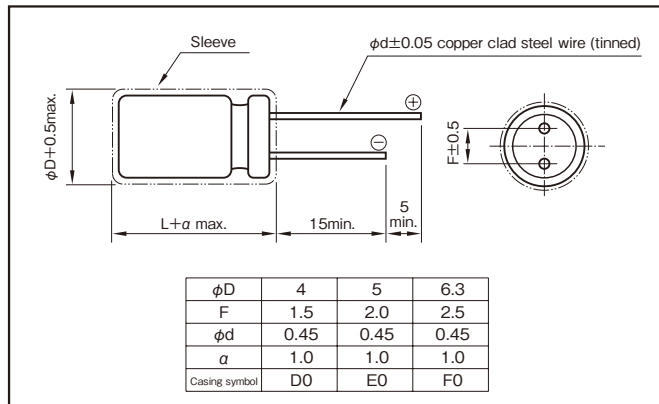
Marking color : White print on a black sleeve

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.)	0.28	0.24	0.20	0.14	0.12	0.10
Characteristics at high and low temperature	Rated voltage (V)	6.3	10	16	25	35	50
	Impedance ratio (max.)	Z-25°C/Z+20°C	3	3	2	2	2
		Z-40°C/Z+20°C	8	5	4	3	3
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, -4 1998 (IEC 60384-1 1992, -4 1985)						

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	0.64	0.80	0.92	1
25 to 35	0.57	0.71	0.89	1
50	0.53	0.67	0.90	1

Part numbering system (example : 16V47 $\mu F$ )

R3S	—	16	V	470	M	F0	#
Series code		Rated voltage symbol		Rated capacitance symbol	Capacitance tolerance symbol	Casing symbol	

Standard Ratings

Rated voltage (V)	6.3		10		16		25		35		50	
	Case	Rated ripple current	Case	Rated ripple current	Case	Rated ripple current	Case	Rated ripple current	Case	Rated ripple current	Case	Rated ripple current
Rated capacitance ( $\mu F$ )	$\phi D \times L$ (mm)	mArms	$\phi D \times L$ (mm)	mArms	$\phi D \times L$ (mm)	mArms	$\phi D \times L$ (mm)	mArms	$\phi D \times L$ (mm)	mArms	$\phi D \times L$ (mm)	mArms
0.1	—	—	—	—	—	—	—	—	—	—	4×5	3
0.22	—	—	—	—	—	—	—	—	—	—	4×5	5
0.33	—	—	—	—	—	—	—	—	—	—	4×5	6
0.47	—	—	—	—	—	—	—	—	—	—	4×5	8
1	—	—	—	—	—	—	—	—	—	—	4×5	11
2.2	—	—	—	—	—	—	—	—	—	—	4×5	17
3.3	—	—	—	—	—	—	—	—	4×5	17	4×5	20
4.7	—	—	—	—	4×5	15	4×5	18	4×5	20	5×5	27
10	—	—	4×5	20	4×5	23	5×5	31	5×5	34	6.3×5	45
22	4×5	26	5×5	34	5×5	38	6.3×5	53	6.3×5	57	—	—
33	5×5	33	5×5	43	6.3×5	56	6.3×5	66	—	—	—	—
47	5×5	45	6.3×5	58	6.3×5	65	—	—	—	—	—	—
100	6.3×5	78	—	—	—	—	—	—	—	—	—	—

(Note) Rated ripple current : 105°C, 100kHz.

NOTE

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Ask factory for technical specifications before purchase and/or use.