

Code in front of series have been extracted from product code, which describes the segment of products, such as type and features.

- Compatible with surface mounting, low ESR, high CV, long life capacitors.
- Environmental : GREEN CAP™, RoHS compliance.
- Supplied with carrier taping.
- Guaranteed 4000 hours at 125°C. (2000 hours :  $\phi 6.3$ )

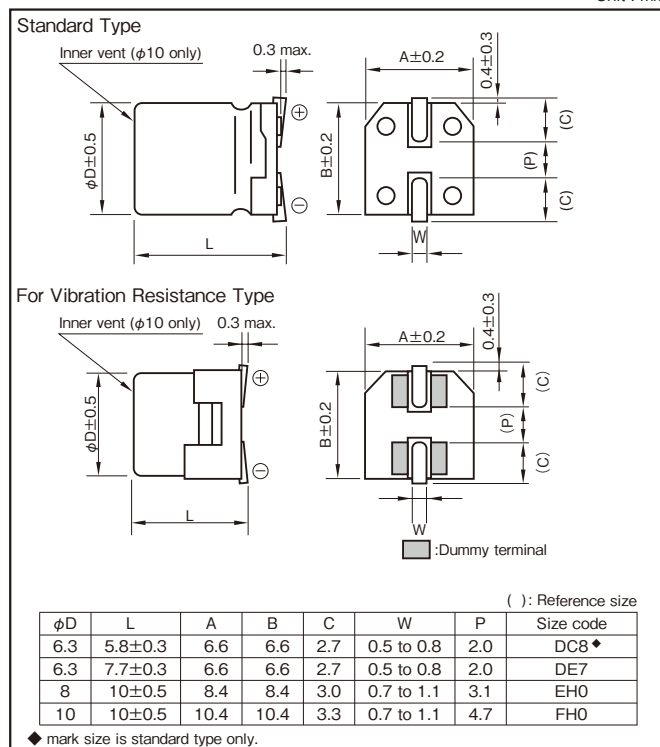


### Specifications

Item	Performance																												
Category temperature range (°C)	-40 to +125																												
Tolerance at rated capacitance (%)	±20 (20°C,120Hz)																												
Leakage current (μA) (max.)	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 colspan="2">Rated voltage (V)</td><td>10</td><td>16</td><td>25</td><td>35</td></tr><tr><td colspan="2">tanδ (max.)</td><td>0.24</td><td>0.20</td><td>0.16</td><td>0.14</td></tr></table> (20°C,120Hz)					Rated voltage (V)		10	16	25	35	tanδ (max.)		0.24	0.20	0.16	0.14												
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Characteristics at high and low temperature	<table><tr><td colspan="2">Rated voltage (V)</td><td>10</td><td>16</td><td>25</td><td>35</td></tr><tr><td rowspan="2">Impedance ratio (max.)</td><td>Z-25°C/Z+20°C</td><td>3</td><td>2</td><td>2</td><td>2</td></tr><tr><td>Z-40°C/Z+20°C</td><td>6</td><td>4</td><td>4</td><td>3</td></tr></table> (120Hz)					Rated voltage (V)		10	16	25	35	Impedance ratio (max.)	Z-25°C/Z+20°C	3	2	2	2	Z-40°C/Z+20°C	6	4	4	3							
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Endurance (125°C) (Applied ripple current)	<table><tr><td colspan="2">Test time</td><td colspan="4">2000 hours (φ6.3) 4000 hours (φ8, φ10)</td></tr><tr><td colspan="2">Leakage current</td><td colspan="4">The initial specified value or less</td></tr><tr><td colspan="2">Percentage of capacitance change</td><td colspan="4">Within ±30% of initial value</td></tr><tr><td colspan="2">Tangent of the loss angle</td><td colspan="4">300% or less of the initial specified value</td></tr></table>					Test time		2000 hours (φ6.3) 4000 hours (φ8, φ10)				Leakage current		The initial specified value or less				Percentage of capacitance change		Within ±30% of initial value				Tangent of the loss angle		300% or less of the initial specified value			
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Tangent of the loss angle		300% or less of the initial specified value																											
Shelf life (125°C)	Test time : 1000hours ; other items are same as the endurance. Voltage application treatment : According to JIS C5101-4 4.1																												
Applicable standards	JIS C5101 - 1,- 18 (IEC 60384 - 1,- 18)																												

### Outline Drawing

Unit : mm



### Coefficient of Frequency for Rated Ripple Current

Frequency (Hz)	120	1k	10k	100k
Rated voltage(V)				
10 to 35	0.77	0.88	0.96	1

### Product code system (\*For general product)

Standard Type (example : 35V100 $\mu F$ )

RS*	VZF	101	M	1G	DE7	002	U
Category code	Series code	capacitance code	Cap tol. code	Voltage code	Size code	Taping and packing code	Additional code

For Vibration Resistance Type (example : 25V330 $\mu F$ )

RS*	VMF	331	M	1T	FH0	002	U
Category code	Series code	capacitance code	Cap tol. code	Voltage code	Size code	Taping and packing code	Additional code

For details, refer to the various "Product Code System" pages.

Refer to individual page.  
(Soldering conditions, Land pattern size, The taping specifications)

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### Standard Ratings

Rated voltage (V) Item Rated capacitance (μF)	10 (1L)				16 (1E)				25 (1T)			
	Case φ D × L (mm)	ESR (Ω max.)		Rated ripple current (mA rms)	Case φ D × L (mm)	ESR (Ω max.)		Rated ripple current (mA rms)	Case φ D × L (mm)	ESR (Ω max.)		Rated ripple current (mA rms)
		20°C	− 40°C			20°C	− 40°C			20°C	− 40°C	
47	—	—	—	—	6.3 × 5.8	1.2	22	110	6.3 × 5.8	1.2	22	110
100	6.3 × 5.8	1.2	22	110	6.3 × 5.8	1.2	22	110	6.3 × 7.7	0.60	12	220
220	6.3 × 7.7	0.60	12	220	6.3 × 7.7	0.60	12	220	8 × 10	0.30	5.5	296
330	8 × 10	0.30	5.5	296	8 × 10	0.30	5.5	296	10 × 10	0.20	3.6	440
470	8 × 10	0.30	5.5	296	10 × 10	0.20	3.6	440	—	—	—	—
680	10 × 10	0.20	3.6	440	10 × 10	0.20	3.6	440	—	—	—	—

Rated voltage (V) Item Rated capacitance (μF)	35 (1G)			
	Case φ D × L (mm)	ESR (Ω max.)		Rated ripple current (mA rms)
		20°C	− 40°C	
47	6.3 × 5.8	1.2	22	110
100	6.3 × 7.7	0.60	12	220
220	8 × 10	0.30	5.5	296
330	10 × 10	0.20	3.6	440

(Note) Rated ripple current : 125°C , 100kHz  
ESR : 100kHz