

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 capacitors.
- Environmental : GREEN CAP™ , RoHS compliance.
- Supplied with carrier taping.
- Guaranteed 2000 hours at 105°C.



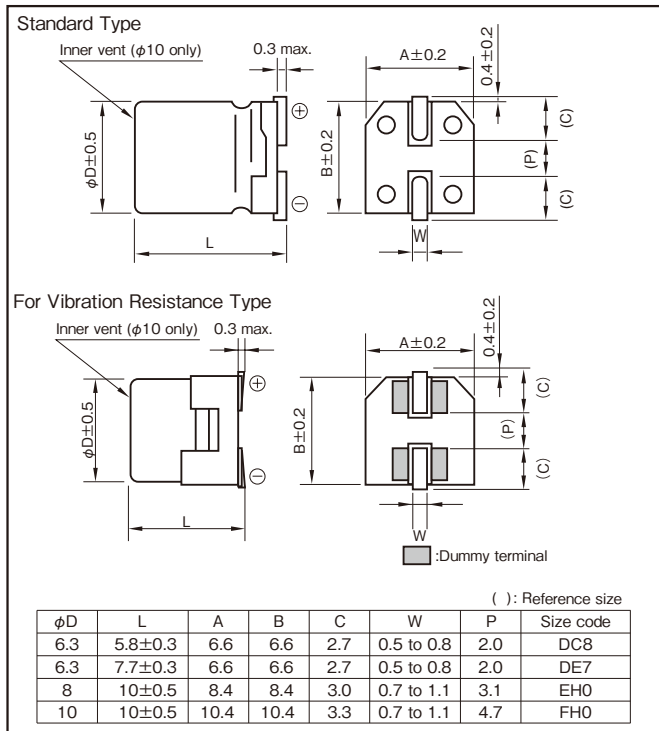
Marking color : Black print

Specifications

Item	Performance								
Category temperature range (°C)	-55 to +105								
Tolerance at rated capacitance (%)	±20 (20°C,120Hz)								
Leakage current (μA) (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)	Rated voltage (V)	6.3	10	16	25	35	50		
	tanδ (max.)	0.26	0.19	0.16	0.14	0.12	0.10		
0.02 is added to every 1000μF increase over 1000μF. (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		2	2	2	2	2	2
		Z-40°C/Z+20°C		3	3	3	3	3	3
		Z-55°C/Z+20°C		4	4	4	3	3	3
(120Hz)									
Endurance (105°C) (Applied ripple current)	Test time	2000 hours							
	Leakage current	The initial specified value or less							
	Percentage of capacitance change	Within ±30% of initial value							
	Tangent of the loss angle	200% or less of the initial specified value							
Shelf life (105°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



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

Coefficient of Frequency for Rated Ripple Current

Frequency (Hz)	50 · 60	120	1k	10k · 100k
Rated voltage (V)				
6.3 to 50	0.50	0.50	0.75	1

Product code system (*For general product)

Standard Type (example : 35V150μF)

RS*	VZD	151	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 : 25V820μF)

RS*	VMD	821	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.

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Standard Ratings

Rated voltage (V) Item Rated capacitance (μF)	6.3 (1J)				10 (1L)				16 (1E)			
	Case φD × L (mm)	Size code	ESR (Ω max.)	Rated ripple current (mA _{rms})	Case φD × L (mm)	Size code	ESR (Ω max.)	Rated ripple current (mA _{rms})	Case φD × L (mm)	Size code	ESR (Ω max.)	Rated ripple current (mA _{rms})
150	—	—	—	—	—	—	—	—	6.3 × 5.8	DC8	0.26	300
220	—	—	—	—	6.3 × 5.8	DC8	0.26	300	6.3 × 5.8	DC8	0.26	300
330	6.3 × 5.8	DC8	0.26	300	6.3 × 7.7	DE7	0.16	600	6.3 × 7.7	DE7	0.16	600
470	6.3 × 7.7	DE7	0.16	600	6.3 × 7.7	DE7	0.16	600	—	—	—	—
680	6.3 × 7.7	DE7	0.16	600	—	—	—	—	8 × 10	EH0	0.08	850
1000	—	—	—	—	8 × 10	EH0	0.08	850	10 × 10	FH0	0.06	1190
1500	8 × 10	EH0	0.08	850	10 × 10	FH0	0.06	1190	—	—	—	—
2200	10 × 10	FH0	0.06	1190	—	—	—	—	—	—	—	—

Rated voltage (V) Item Rated capacitance (μF)	25 (1T)				35 (1G)				50 (1U)			
	Case φD × L (mm)	Size code	ESR (Ω max.)	Rated ripple current (mA _{rms})	Case φD × L (mm)	Size code	ESR (Ω max.)	Rated ripple current (mA _{rms})	Case φD × L (mm)	Size code	ESR (Ω max.)	Rated ripple current (mA _{rms})
47	—	—	—	—	—	—	—	—	6.3 × 5.8	DC8	0.68	195
100	—	—	—	—	6.3 × 5.8	DC8	0.26	300	6.3 × 7.7	DE7	0.34	350
150	6.3 × 5.8	DC8	0.26	300	6.3 × 7.7	DE7	0.16	600	—	—	—	—
220	6.3 × 7.7	DE7	0.16	600	—	—	—	—	8 × 10	EH0	0.18	670
330	—	—	—	—	8 × 10	EH0	0.08	850	10 × 10	FH0	0.12	900
470	8 × 10	EH0	0.08	850	—	—	—	—	—	—	—	—
560	—	—	—	—	10 × 10	FH0	0.06	1190	—	—	—	—
820	10 × 10	FH0	0.06	1190	—	—	—	—	—	—	—	—

(Note) Rated ripple current : 105°C , 100kHz
ESR : 20°C , 100kHz