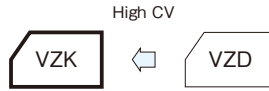


Code in front of series have been extracted from product code, which describes the segment of products, such as type and features.

- Compatible with surface mounting, low ESR, high CV capacitors.
- Environmental : GREEN CAP™ , RoHS compliance
- Supplied with carrier taping.
- Guaranteed 2000 hours at 105°C .

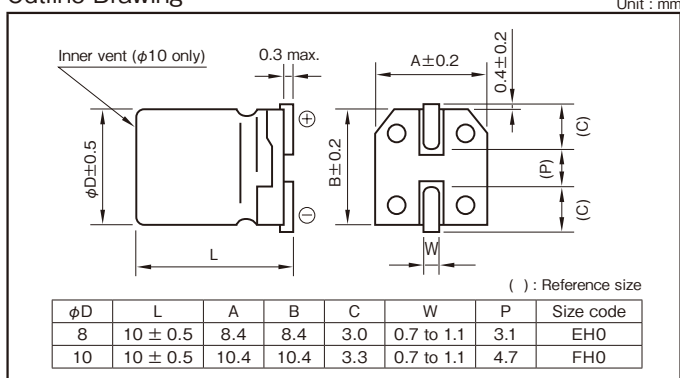


Marking color : Black print

### 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)	25	35	
	tanδ (max.)	0.14	0.12	
0.02 is added to every 1000μF increase over 1000μF (20°C , 120Hz)				
Characteristics at high and low temperature	Rated voltage (V)	25	35	
	Impedance ratio (max.)	Z - 25°C / Z + 20°C	2	2
		Z - 40°C / Z + 20°C	3	3
		Z - 55°C / Z + 20°C	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



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)				
25 to 35	0.50	0.50	0.75	1

Product code system : 35V680μF (\*For general product)

RS*	VZK	681	M	1G	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.

### Standard Ratings

Rated voltage (V)	25 (1T)				35 (1G)			
	Case	Size code	ESR (Ω max.)	Rated ripple current (mArms)	Case	Size code	ESR (Ω max.)	Rated ripple current (mArms)
470	—	—	—	—	8 × 10	EH0	0.08	850
560	8 × 10	EH0	0.08	850	—	—	—	—
680	—	—	—	—	10 × 10	FH0	0.06	1190
1000	10 × 10	FH0	0.06	1190	—	—	—	—

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

NOTE : Design, Specifications are subject to change without notice.  
It is recommended that you shall obtain technical specifications from ELNA to ensure that the component is suitable for your use.