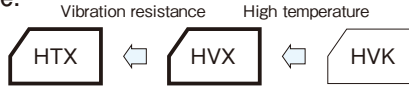


Code in front of series have been extracted from product code, which describes the segment of products, such as type and features.

- Low ESR and high ripple current are realized.
- HTX is resist to vibration. (30G guaranteed)
- Equivalent to conductive polymer type Aluminum Electrolytic Capacitor.
(There are little characteristics change by temperature and frequency)
- Guaranteed 135°C, 4000 hours.(φ6.3: 2000 hours)
- Environmental : GREEN CAP™ , RoHS compliance.



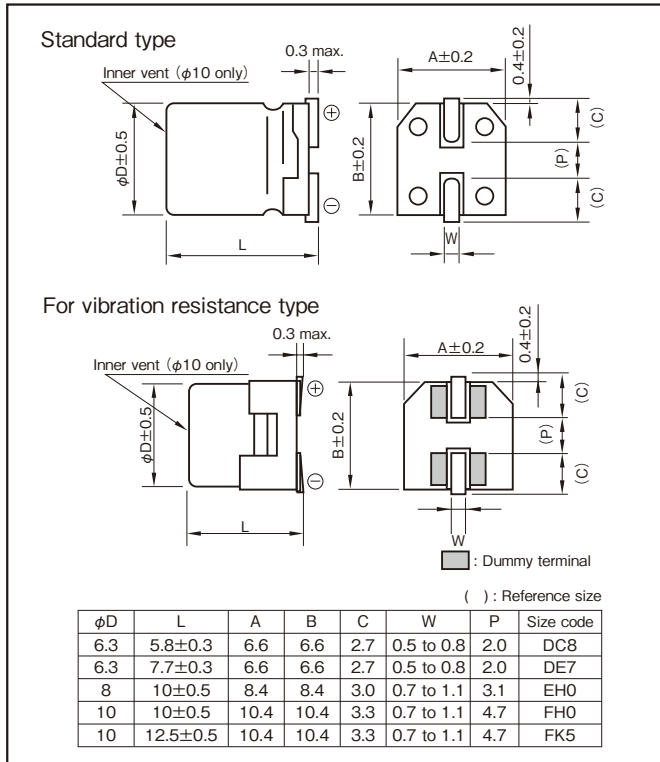
Marking color : Blue print

Specifications

Item	Performance					
Category temperature range (°C)	-55 to +135					
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)	16	25	35	50	63
	tanδ (max.)	0.16	0.14	0.12	0.10	0.08
Characteristics at high and low temperature	Impedance ratio (max.)	Z-25°C/Z+20°C	1.5			
		Z-55°C/Z+20°C	2.0			
Endurance (135°C) (Applied ripple current)	Test time	4000 hours(φ6.3: 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				
	ESR change	200% or less of the initial specified value				
Shelf life (135°C)	Test time : 1000hours ; other items are same as the endurance. Voltage application treatment : According to JIS C5101-4 4.1.					

Outline Drawing

Unit : mm



Coefficient of Frequency for Rated Ripple Current

Frequency (Hz)	120	1k	10k	100k or more
Rated voltage (V)	0.10	0.30	0.60	1
16 to 63				

Product code system (*For general product)

φ6.3, φ8 (example : 16V270μF, Standard type)

RS*	HVX	271	M	1E	EH0	002	
Category code	Series code	capacitance code	Cap tol. code	Voltage code	Size code	Taping and packing code	Additional code

φ10 (example : 16V470μF, Standard type)

RS*	HVX	471	M	1E	FH0	002	X
Category code	Series code	capacitance code	Cap tol. code	Voltage code	Size code	Taping and packing code	Additional code

- For vibration resistance type should change Series code "HVX" into "HTX".
- For details, refer to the various "Product Code System" pages.

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

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

Standard Ratings (●Marked: 2000 hours guaranteed)

Rated voltage (V) Rated capacitance (μF)	Item	16 (1E)			25 (1T)			35 (1G)			50 (1U)		
		Case φD×L (mm)	ESR (mΩ max.)	Rated ripple current (mA rms)	Case φD×L (mm)	ESR (mΩ max.)	Rated ripple current (mA rms)	Case φD×L (mm)	ESR (mΩ max.)	Rated ripple current (mA rms)	Case φD×L (mm)	ESR (mΩ max.)	Rated ripple current (mA rms)
22	—	—	—	—	—	—	—	—	—	● 6.3×5.8	80	750	
33	—	—	—	—	—	—	—	—	—	● 6.3×7.7	40	1100	
47	—	—	—	—	—	—	● 6.3×5.8	60	900	—	—	—	
56	—	—	—	● 6.3×5.8	50	900	—	—	—	—	—	—	
68	—	—	—	—	—	—	● 6.3×7.7	35	1400	8×10	30	1250	
82	● 6.3×5.8	45	950	—	—	—	—	—	—	—	—	—	
100	—	—	—	● 6.3×7.7	30	1400	—	—	—	10×10	28	1600	
150	● 6.3×7.7	27	1450	—	—	—	8×10	22	1600	10×12.5	24	2500	
220	—	—	—	8×10	22	1600	—	—	—	—	—	—	
270	8×10	20	1700	—	—	—	10×10	20	2000	—	—	—	
330	—	—	—	10×10	20	2000	—	—	—	—	—	—	
390	—	—	—	—	—	—	10×12.5	18	3000	—	—	—	
470	10×10	18	2100	—	—	—	—	—	—	—	—	—	
560	—	—	—	10×12.5	18	3000	—	—	—	—	—	—	

Rated voltage (V) Rated capacitance (μF)	Item	63 (4E)		
		Case φD×L (mm)	ESR (mΩ max.)	Rated ripple current (mA rms)
10	● 6.3×5.8	120	700	
22	● 6.3×7.7	80	900	
33	8×10	40	1100	
56	10×10	30	1400	
100	10×12.5	26	2000	

(Note) Rated ripple current : 135°C , 100kHz ; ESR : 20°C , 100kHz