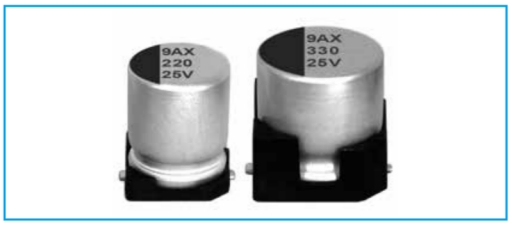
HVX,HTX

CONDUCTIVE POLYMER HYBRID ALUMINUM ELECTROLYTIC CAPACITORS ELNA

Conductive Polymer Hybrid Capacitors

GREEN CAP | SMD | Low ESR | 135℃ 4000hours

- 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℃, 4000 hours.(φ6.3: 2000 hours)



Marking color : Blue print

Vibration resistance ⇦ High temperature

HTX ⇦ HVX ⇦ HVK

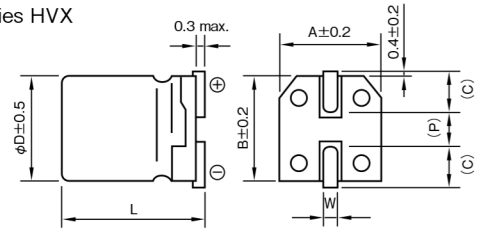
Specifications

Item	Performance
Category temperature range (℃)	−55～+135
Tolerance at rated capacitance (%)	±20 (20℃, 120Hz)
Leakage current (μA) (max.)	0.01CV or 3 whichever is larger (after 2 minutes) C : Rated capacitance (μF) , V : Rated voltage (V) (20℃)
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 (20℃, 120Hz)
Characteristics at high and low temperature	Impedance ratio (max.) Z−25℃/Z+20℃: 1.5 Z−55℃/Z+20℃: 2.0 (100kHz)
Endurance (135℃) (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℃)	Test time : 1000hours ; other items are same as the endurance. Voltage application treatment : According to JIS C5101-4 4.1.

Outline Drawing

Unit : mm

Series HVX

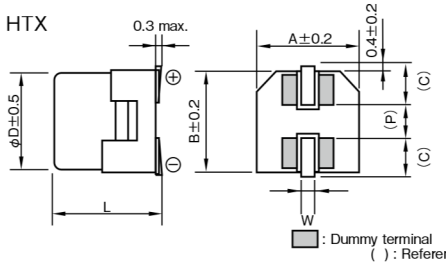


( ) : Reference size

	φD	L	A	B	C	W	P	Size code
●	6.3	5.8±0.3	6.6	6.6	2.7	0.5 to 0.8	2.0	DC8
●	6.3	7.7±0.3	6.6	6.6	2.7	0.5 to 0.8	2.0	DE7
	8	10±0.5	8.4	8.4	3.0	0.7 to 1.1	3.1	EH0
	10	10±0.5	10.4	10.4	3.3	0.7 to 1.1	4.7	FH0
	10	12.5±0.5	10.4	10.4	3.3	0.7 to 1.1	4.7	FK5

(●Marked:2000 hours guaranteed)

Series HTX



: Dummy terminal

( ) : Reference size

	φD	L	A	B	C	W	P	Size code
●	6.3	5.8±0.3	6.6	6.6	2.7	0.5 to 0.8	2.0	DC8
●	6.3	7.7±0.3	6.6	6.6	2.7	0.5 to 0.8	2.0	DE7
	8	10±0.5	8.4	8.4	3.0	0.7 to 1.1	3.1	EH0
	10	10±0.5	10.4	10.4	3.3	0.7 to 1.1	4.7	FH0
	10	12.5±0.5	10.4	10.4	3.3	0.7 to 1.1	4.7	FK5

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

Coefficient of Frequency for Rated Ripple Current

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

Product code system (*For general product)

HVX (example : 16V270μF)

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

HTX (example : 16V270μF)

RS*	HTX	271	M	1E	EH0	□	□
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.

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.

Standard Ratings (●Marked: 2000 hours guaranteed)

Rated voltage (V) / Item / Rated capacitance (μF)	16 (1E)			25 (1T)			35 (1G)			50 (1U)		
	Case φD×L (mm)	ESR (mΩ max.)	Rated ripple current (mArms)	Case φD×L (mm)	ESR (mΩ max.)	Rated ripple current (mArms)	Case φD×L (mm)	ESR (mΩ max.)	Rated ripple current (mArms)	Case φD×L (mm)	ESR (mΩ max.)	Rated ripple current (mArms)
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) / Item / Rated capacitance (μF)	63 (4E)		
	Case φD×L (mm)	ESR (mΩ max.)	Rated ripple current (mArms)
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℃ , 100kHz ; ESR : 20℃ , 100kHz

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