

Conductive Polymer Hybrid Capacitors

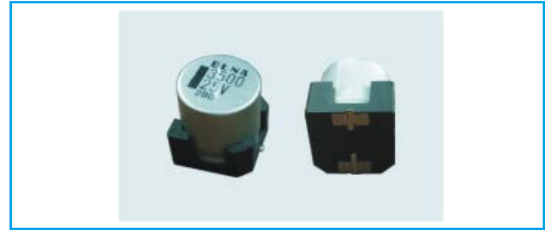
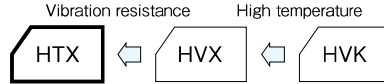
GREEN
CAP

SMD

Low
ESR

135°C
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°C, 4000 hours.



Marking color : Blue print

Specifications

Item	Performance
Category temperature range (°C)	-55~+135
Tolerance at rated capacitance (%)	±20 (20°C, 120Hz)
Leakage current (µA)	Less than 0.01CV or 3(µA) whichever is larger (after 2 minutes) C : Rated capacitance (µF) , V : Rated voltage (V) (20°C)
Tangent of loss angle (tanδ)	Rated voltage (V)
	tanδ (max.)
Characteristics at high and low temperature	Impedance ratio (max.)
Endurance (135°C) (Applied ripple current)	Test time
	Leakage current
	Percentage of capacitance change
	Tangent of the loss angle
	ESR change
Shelf life (135°C)	Test time : 1000hours ; other items are same as the endurance. Voltage application treatment

Outline Drawing

Unit : mm

Series HVX

() : Reference size

φD	L	A	B	C	W	P	Casing symbol
8	10±0.5	8.4	8.4	3.0	0.7 to 1.1	3.1	G10
10	10±0.5	10.4	10.4	3.3	0.7 to 1.1	4.7	H10

- Soldering conditions are described on page 15.
- Land pattern size are described on page 13.
- The taping specifications are described on page 16.

Coefficient of Frequency for Rated Ripple Current

Frequency (Hz)	120	1k	10k	100k or more
Rated voltage (V) 16 to 35	0.10	0.30	0.60	1

Part numbering system
HVX (example : 16V270µF)

HVX	—	16	V	271	M	G10	—	-----
Series code		Rated voltage symbol		Rated capacitance symbol	Capacitance tolerance symbol	Casing symbol		Taping symbol

Standard Ratings

Rated voltage (V) Rated capacitance (μF)	Item	16			25			35		
		Case	ESR	Rated ripple current	Case	ESR	Rated ripple current	Case	ESR	Rated ripple current
		φD×L (mm)	(mΩ max.)	(mA _{rms})	φD×L (mm)	(mΩ max.)	(mA _{rms})	φD×L (mm)	(mΩ max.)	(mA _{rms})
150	—	—	—	—	—	—	8×10	22	1600	
220	—	—	—	8×10	22	1600	—	—	—	
270	8×10	20	1700	—	—	—	10×10	20	2000	
330	—	—	—	10×10	20	2000	—	—	—	
470	10×10	18	2100	—	—	—	—	—	—	

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