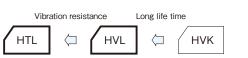


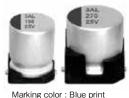
Conductive Polymer Hybrid Aluminum Electrolytic Capacitors HVL,HTL series

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

★NEW

- Low ESR and high ripple current are realized.
- HTL is resist to vibration. (30G guaranteed)
- Equivalent to conductive polymer type Aluminum Electrolytic Capacitor. (There are little characteristics change by temperature and frequency)
- · Guaranteed 125° C, 8000 hours.
- Environmental : GREEN CAP™ , RoHS compliance.

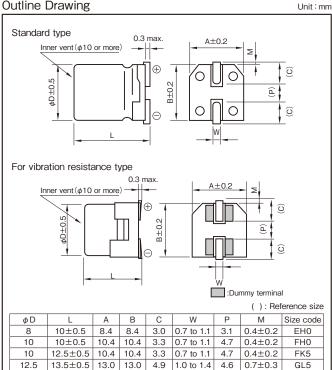




Specifications

opeemeations											
Item	Performance										
Category temperature range (°C)	-55 to +125										
Tolerance at rated capacitance (%)		±20 (20°C, 120Hz									
Leakage current (μΑ) (max.)		0.01CV or 3 whichever is larger (after 2 minutes) C : Rated capacitance (μF) ; V : Rated voltage (V)									
Tangent of loss angle (tanδ)		Rated voltage (V) tanδ (max.)		25 0.14	35 0.12	50 0.10	63 0.08				
(tailo)				-	-			 (20°C, 120Hz)			
Characteristics at high and low temperature		Impedance ratio (max.)		Z-25°C/Z+20°C Z-55°C/Z+20°C		1.5					
		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		(100kHz)							
		Test time		80	00 hours						
E . (105°0)		Leakage current	The initial specified value or less								
Endurance (125°C) (Applied ripple current)		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 (125°C)		Test time: 1000hours; other items are same as the endurance. Voltage application treatment: According to JIS C5101-4 4.1.									

Outline Drawing



Refer to individual page.

(Soldering conditions, Land pattern size, The taping specifications)

Coefficient of Frequency for Rated Ripple Current

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

Product code system (*For general product)

φ8, φ10 (example : 25V220μF, Standard type)

RS*	HVL	221	М	1T	EH0	002	
Category	Series code	capacitance code	Cap tol. code	Voltage code	Size code	Taping and packing code	Additional code

φ12.5 (example : 25V820μF, Standard type)

RS*	HVL	821	М	1T	GL5	005	
Category	Series code	capacitance code	Cap tol.	Voltage code	Size code	Taping and packing code	Additional code

- $\boldsymbol{\cdot}$ For vibration resistance type should change Series code "HVL" into "HTL".
- · For details, refer to the various "Product Code System" pages.



Conductive Polymer Hybrid Aluminum Electrolytic Capacitors HVL,HTL series

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

Standard Ratings

Rated voltage (V)	25 (1T)			35 (1G)			50 (1U)			63 (4E))		
Rated Item	Case	ESR	Rated ripple current									
capacitance (µF)	φD×L (mm)	(mΩ max.)	(mArms)									
33	_	_	_	_	_	_	_	_	_	8×10	40	1100
56	_	_	_	-	_	_	_	_	_	10×10	30	1400
68	_	_	_	_	_	_	8×10	30	1250	_	-	-
100	_	_	_	_	_	_	10×10	28	1600	10×12.5	26	2000
120	_	_	_	_	_	_	_	_	_	12.5×13.5	22	2500
150	_	_	_	8×10	22	1600	10×12.5	24	2500	_	_	_
220	8×10	22	1600	_	_	-	_	_	_	_	_	-
270	_	_	_	10×10	20	2000	_	_	_	_	_	-
330	10×10	20	2000	_	_	_	12.5×13.5	20	3000	_	_	-
390	_	_	_	10×12.5	18	3000	_	_	_	_	_	_
560	10×12.5	18	3000	12.5×13.5	15	3500	-	-	-	-	-	-
820	12.5×13.5	15	3500	-	_	_	_	_	_	_	-	-
1000	12.5×13.5	15	3500	_	_	_	_	_	_	_	_	_

(Note) Rated ripple current : 125°C , 100kHz ; ESR : 20°C , 100kHz