

Conductive Polymer Hybrid Aluminum Electrolytic Capacitors HVQ,HTQ series

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.
- HTQ is resist to vibration. (30G guaranteed)
- Equivalent to conductive polymer type Aluminum Electrolytic Capacitor. (There are little characteristics change by temperature and frequency)
- · Guaranteed 150° C, 1000 hours.
- Environmental : GREEN CAP™ , RoHS compliance.



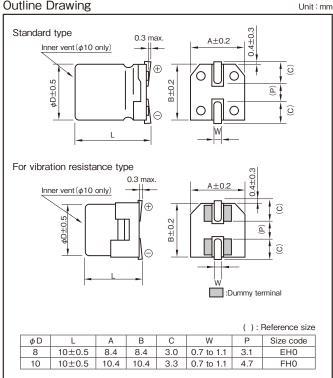


Marking color : Blue print

Specifications

Item	Performance									
Category temperature range (°C)	-55 to +150									
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) (20°C								
Tangent of loss angle (tanδ)	Rated voltage (V)	25	25 35		63					
	tanδ (max.)	0.14	0.12	0.10	0.08					
		(20°C, 120k								
Characteristics at high	Impedance ratio (max.)		Z-25°C/Z+20°C 1.5 Z-55°C/Z+20°C 2.0							
and low temperature			000,21200	2.0	((100kHz)				
	Test time		1000 hours							
E 450°0	Leakage current	The initial specified value or less								
Endurance (150°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 val								
	ESR change	ESR change 200% or less of the initial specified value								
Shelf life (150°C)	Test time: 1000hours; other items are sam	e as the endurance	Voltage application treat	tment · According to .II	S 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)	120	1k	10k	100k or more
25 to 63	0.10	0.30	0.60	1

Product code system (*For general product)

φ8 (example : 25V220μF, Standard type)

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

φ10 (example : 35V270μF, Standard type)

RS*	HVQ	271	М	1G	FH0	002	Χ
Category code	Series code	capacitance code	Cap tol.	Voltage code	Size code	Taping and packing code	Additional code

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



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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	30	610
56	_	_	_	_	_	_	_	_	_	10×10	28	710
68		_	_	_	_	_	8×10	30	660	_	-	_
100		_	_		_	_	10×10	28	800		_	_
150	_	_	_	8×10	22	710	_	_	_		_	_
220	8×10	22	740	_	_	_	_	_	_	_	_	_
270	_	_	_	10×10	20	830	_	_	_	_	-	-
330	10×10	20	850	_	_	_	_	_	_	_	_	_

(Note) Rated ripple current : 150° C , 100kHz ; ESR : 20° C , 100kHz