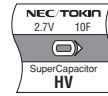
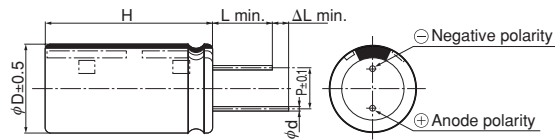


Super Capacitor HV Series

Dimensions

Markings



Standard Rating

Part No.	Max. Operating Voltage (Vdc)	Nominal Capacitance (F)	Max. ESR (at 1 kHz) (mΩ)	Max. Current at 30 minutes (mA)	Dimensions (Unit: mm)					Weight (g)	
					φD	H	P	φd	L		ΔL
HV0E106NF	2.7	10	100	8	10.0	35±2	5.0	0.6	15.0	5.0	4.5
HV0E226NF	2.7	22	100	18	12.5	35±2	5.0	0.6	15.0	5.0	6.5
HV0E506NF	2.7	50	30	40	18.0	40±5	7.5	0.8	15.0	5.0	14.0
HV0E107NF	2.7	100	30	81	22.0	50±5	10.2	1.0	15.0	5.0	24.0

Specifications

Item	Specifications	Test Conditions Conforming to JIS C 5102-1994		
Operating Temperature Range	-25°C to +60°C (50F, 100F), -25°C to +70°C (10F, 22F)			
Maximum Operating Voltage	2.7 Vdc			
Nominal Capacitance Range	10F, 22F, 50F, 100F			
Capacitance Allowance	±30%			
Equivalent Series Resistance (ESR)	Refer to standard ratings			
Current at 30 minutes	Refer to standard ratings			
Temperature Variation of Characteristics	Phase 2	Capacitance	More than 50% of initial value	Conforms to 7.12 Phase2: -25±2°C Phase4: +60±2°C Phase5: +25±2°C
		ESR	Not to exceed 4 times initial value	
	Phase 4	Capacitance	Not to exceed 150% of initial value	
		ESR	Not to exceed initial requirement	
	Phase 5	Current at 30minutes	Not to exceed 1.5CV(mA)	
		ΔCC	Within ±20% of initial value	
Phase 5	ESR	Not to exceed initial requirement		
	Current at 30 minutes	Not to exceed initial requirement		
Lead Strength (Tensile)	No loosening nor permanent damage of the leads	Conforms to 8.1.2 (1)		
Vibration Resistance	Capacitance	Meet initial standard value	Conforms to 8.2.3 (1) Frequency: 10 to 55Hz Test duration: 6 hours	
	ESR			
	Current at 30 minutes			
	Appearance			Noobvious abnormality
Solderability	3/4 or more of the pin surface should be covered with new solder	Conforms to 8.4 Solder temperature: 245±5°C Dipping duration: 5±0.5sec. Should be dipped up to 1.6mm from the lower end of the capacitor		
Soldering Heat Resistance	Capacitance	Should satisfy initial standard value	Conforms to 8.5 Solder temperature: 260±10°C Dipping duration: 10±1sec. Should be dipped up to 1.6mm from the lower end of the capacitor	
	ESR			
	Current at 30 minutes			
	Appearance			No obvious abnormality
Temperature Cycle	Capacitance	Meet initial standard value	Conforms to 9.3 Temperature: -25°C→R.T.→+70°C(10F, 20F)→R.T. Number of cycles: 5 cycles	
	ESR			
	Current at 30 minutes			
	Appearance			No obvious abnormality
Humidity Resistance	Capacitance	Within ±20% of initial value	Conforms 9.5 Temperature: 40±2°C Relative humidity: 90 to 95% RH Test duration: 240±8hours	
	ESR	1.2 or less time initial standard value		
	Current at 30 minutes	1.2 or less time initial standard value		
	Appearance	No obvious abnormality		
High Temperature Load Life	Capacitance	Within ±30% of initial value	Conforms 9.10 Temperature: +70°C(10F, 20F) → ±2°C Voltage applied: 2.7Vdc Test duration: 1000 ⁴⁸ hours Series protection resistance: 0Ω	
	ESR	Twice or less times initial standard value		
	Current at 30 minutes	Twice or less times initial standard value		
	Appearance	No obvious abnormality		



- All specifications in this catalog and production status of products are subject to change without notice. Prior to the purchase, please contact NEC TOKIN for updated product data.
- Please request for a specification sheet for detailed product data prior to the purchase.
- Before using the product in this catalog, please read "Precautions" and other safety precautions listed in the printed version catalog.