

# HVA Series

Super Low ESR



- 105°C, 3,000 to 5,000hrs.
- Solvent proof (within 2 minutes)

## Specifications

Items	Condition	Specifications		
Rated voltage (V)	—	6.3	10	16
Surge voltage (V)	Room temperature	8.2	13	20
Category temperature range (°C)	—	-55 to +105		
Capacitance tolerance (%)	120Hz/20°C	M: ±20		
Dissipation Factor (tan δ)	120Hz/20°C	0.18	0.16	0.14
Leakage current (LC) ★	μA/after 2minutes (max)	The greater value of either 0.2CV or 100		
Temperature characteristics	Based the value at 120Hz, +20°C	-55°C Z/Z20°C	1 to 2.5	
		105°C Z/Z20°C	0.6 to 1.0	
Impedance ratio	105°C rated voltage applied (With the rated ripple current)	Test	φ6.3 : 3,000 hrs., D≥φ8 : 5,000 hrs.	
		ΔC/C	Within ±30% of the initial value	
		tan δ	≤ 2 times the initial specified value	
		ESR	≤ 2 times the initial specified value	
		LC	≤ The initial specified value	

★In case of some problems for measured values, measure after applying rated voltage for 120 minutes at 105°C.

## Marking, Dimensions

Lot No.

14 Rated Capacitance

47 Series Symbol

10A Rated Voltage(6.3V→6)

Polarity (Cathode)

0.3max

W

H

R (+)

(Unit : mm)

D <sup>+0.5max</sup>	L <sup>±0.3</sup>	W <sup>±0.2</sup>	H <sup>±0.2</sup>	C <sup>±0.2</sup>	R	P <sup>±0.2</sup>
6.3	6.0	6.6	6.6	7.3	0.5 to 0.8	2.2
6.3	7.7	6.6	6.6	7.3	0.5 to 0.8	2.2
8	10.5	8.3	8.3	9.0	0.7 to 1.0	3.2
10	10.5	10.3	10.3	11.0	1.0 to 1.4	4.6

A pressure relief vent is attached to products over φD=8

## Size List, ESR, Rated Ripple Current

μF	V	6.3			10			16		
10							6.3x6.0	54	1130	
22							6.3x6.0	54	1130	
33				6.3x6.0	40	1510	6.3x6.0	54	1130	
47				6.3x6.0	40	1510	6.3x7.7 ★	45	1480	
68				6.3x6.0	40	1510	8x10.5	22	2290	
100				6.3x7.7 ★	35	1910	8x10.5	22	2290	
150		6.3x6.0	36	1630	8x10.5	18	2800	8x10.5	22	
220		6.3x7.7 ★	32	2020	8x10.5	18	2800	10x10.5	20	
330		8x10.5	16	3150	8x10.5	18	2800			
390		8x10.5	16	3150	8x10.5	18	2800			
470		8x10.5	16	3150	10x10.5	16	3650			
560		8x10.5	16	3150	10x10.5	16	3650			
680		10x10.5	15	3890						
820		10x10.5	15	3890						
1000		10x10.5	15	3890						

Please refer to page 21 for the ripple current frequency coefficient.

★Add the S at the end of the model number.  
Ex.: 10HVA 100MS (Size is 6.3x7.7mm)

Rated ripple current  
mA rms (100kHz, 105°C)

ESR (mΩ)  
max at 100kHz, 20°C

Case size: φDxL (mm)

## Model No.

