

# HVA Series

Super Low ESR



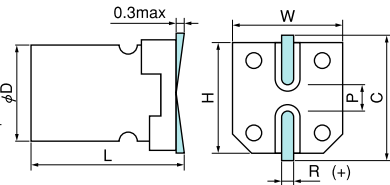
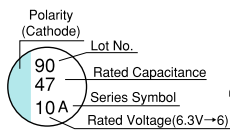
- 105°C, 3,000 to 5,000hrs.
- Solvent proof (within 2 minutes)

## 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 Impedance ratio	Based the value at 120Hz, +20°C	-55°C Z/Z <sub>20°C</sub>	1 to 2.5	
		105°C Z/Z <sub>20°C</sub>	0.6 to 1.0	
Endurance	105°C rated voltage applied (With the rated ripple current)	Test	φ6.3 ; 3,000 h rs., D≥φ8 ; 5,000 h rs.	
		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



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

(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

## Size List, ESR, Rated Ripple Current

μF	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
							8x10.5	22	2290
68				6.3x6.0	40	1510	8x10.5	22	2290
100	6.3x6.0	36	1630	6.3x7.7 ★	35	1910	8x10.5	22	2290
				8x10.5	18	2800			
150	6.3x6.0	36	1630	8x10.5	18	2800	10x10.5	20	2920
220	6.3x7.7 ★	32	2020	8x10.5	18	2800			
	8x10.5	16	3150						
330	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						
1000	10x10.5	15	3890						

Please refer to page 18 for the ripple current frequency coefficient.

★Add the S at the end of the model number.  
Ex.: 10HVA100MS (Size is 6.3x7.7mm)

Rated ripple current  
mA Arms (100kHz, 105°C)  
ESR (mΩ)  
max at 100kHz, 20°C  
Case size: φDxL (mm)

## Model No.

