

# HVH Series

Super Low ESR

High Voltage, Long Life

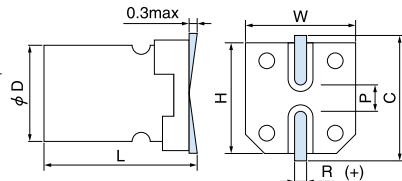
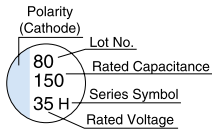


- 105°C, 5,000 to 10,000hrs
- Solvent proof (within 2 minutes)

## Specifications

Items	Condition	Specifications			
Rated voltage (V)	—	25	35	50	63
Surge voltage (V)	Room temperature	32	44	63	79
Category temperature range (°C)	—	-55 to +105			
Capacitance tolerance (%)	120Hz/20°C	M : ±20			
Dissipation Factor (DF)	120Hz/20°C	0.16			
Leakage current (LC)	μA/after 2minutes (max)	The greater value of either 0.05CV 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	φ 8 to φ 10 : 10,000hrs. (25V : 7,000hrs.) , φ 6.3 : 5,000hrs.		
		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		

## Marking, Dimensions



(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	25				35				50				63			
	V															
2.7														6.3 x 6.0	150	960
3.9														6.3 x 7.7	100	1060
5.6								6.3 x 6.0	120	980						
10								6.3 x 7.7	80	1200						
22														8 x 10.5	40	1560
27					6.3 x 6.0	100	1080									
33														8 x 10.5	35	1670
47	6.3 x 6.0	60	1270	6.3 x 7.7	60	1300								10 x 10.5	30	2100
56														10 x 10.5	25	2320
68	6.3 x 7.7	45	1400													
100					8 x 10.5	30	1800									
150	8 x 10.5	27	1900	10 x 10.5	23	2470										
270	10 x 10.5	22	2530													

Please refer to page 79 for the ripple current frequency coefficient.

Case size ; φ D x L (mm)

Rated ripple current  
mArms (100kHz, 105°C)

ESR (mΩ)  
max at 100kHz, 20°C

