

Hybrid Conductive Polymer Type / Surface Mount Type

RoHS compliance

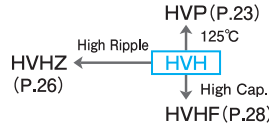
# HVH Series

105°C

High Voltage, Long Life



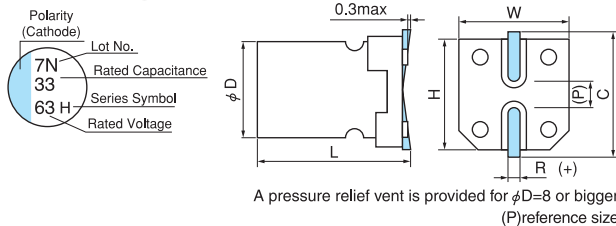
- 105°C, 4,000 to 10,000hours
- Solvent proof (within 2 minutes)



## Specifications

Items	Condition	Specifications									
Rated voltage (V)	—	16	25	35	40	50	63	80	100	125	
Surge voltage (V)	Room temperature	20	32	44	50	63	79	100	125	157	
Category temperature range (°C)	—	-55 to +105									
Capacitance tolerance (%)	120Hz/20°C	M : ±20									
Dissipation Factor (tan δ)	tanδ (max) 120Hz/20°C	0.16									
Leakage current (LC)	μA/after 2minutes (max)	≤ 63V		The greater value of either 0.01CV or 3							
		80V ≤		The greater value of either 0.05CV or 100							
Endurance	105°C rated voltage applied (With the rated ripple current)	Test	16V	φ6.3 : 4,000hours, D≥φ8 : 7,000hours							
			25V≤	φ6.3×6.0, φ6.3×7.7 : 5,000hours, D≥φ8 : 10,000hours							
		ΔC/C	Within ±30% of the initial value								
		tan δ	Less than 200% of the specified value								
		ESR	Less than 200% of the specified value								
		LC	Less than the 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
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
10	12.5	10.3	10.3	11.0	1.0 to 1.4	4.6

## Size, ESR, Rated Ripple Current

μF	V	16		25		35		40		50	
		Case	Rated	Case	Rated	Case	Rated	Case	Rated	Case	Rated
10										6.3×6.0★	120 980
15										6.3×7.7	80 1200
18								6.3×6.0	110 1030	6.3×7.7	80 1200
27						6.3×6.0	100 1080	6.3×7.7	70 1250		
33										8×10.5	35 1670
47			6.3×6.0	60 1270		6.3×7.7	60 1300				
56								8×10.5	32 1750	10×10.5	25 2320
68			6.3×7.7	45 1400							
82	6.3×6.0	55 1380								10×12.5	19 2650
100						8×10.5	30 1800	10×10.5	24 2400		
120	6.3×7.7	40 1500						10×12.5	18 2750		
150			8×10.5	27 1900		10×10.5	23 2470				
220						10×12.5	17 2830				
270	8×10.5	26 2000	10×10.5	22 2530							
330			10×12.5	16 2900							
470	10×10.5	21 2600									
560	10×12.5	15 3000									

μF	V	63		80		100		125			
		Case	Rated	Case	Rated	Case	Rated	Case	Rated		
6.8		6.3×6.0	150 960								
10		6.3×7.7	100 1060			10×10.5	80 1450	10×10.5	90 1250		
12				10×10.5	70 1600	10×10.5	80 1450				
15				10×10.5	70 1600	10×12.5	60 1660				
18				10×12.5	50 1830						
22		8×10.5	40 1560								
33		8×10.5★	40 1560								
		10×10.5	30 2100								
47		10×10.5	30 2100								
56		10×12.5	22 2400								

Please refer to page 19 for ripple current frequency coefficients.  
★ S type

Case size: φDXL (mm)

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

## Part number

63 HV H 33 M

Capacitance tolerance  
Rated capacitance  
Series code  
Type code

63 HV H 33 M S

S type code  
Capacitance tolerance  
Rated capacitance  
Series code  
Type code

ESR (mΩ)  
max at 100kHz, 20°C

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