

# HVH Series

105°C

High Voltage, Long Life

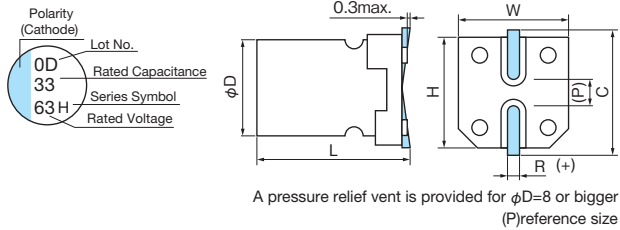


- 105°C 4,000 to 10,000hours
- Solvent proof (within 2 minutes)
- AEC-Q200

## 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								
		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 <sub>≥</sub> φ8 : 7,000hours							
			25V ≤	φ6.3 : 5,000hours, D <sub>≥</sub> φ8 : 10,000hours							
		ΔC/C	Within ±30% of the initial value								
		tanδ	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>+0.5</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	
		10									6.3×6.0
15										6.3×7.7	80, 1200
18										6.3×7.7	80, 1200
27						6.3×6.0	100, 1080	6.3×6.0	110, 1030		
33											
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											
120	6.3×7.7	40, 1500				8×10.5	30, 1800	10×10.5	24, 2400		
150								10×12.5	18, 2750		
220				8×10.5	27, 1900	10×10.5	23, 2470				
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			
		6.8	6.3×6.0	150, 960							
10	6.3×7.7	100, 1060									
12				10×10.5	70, 1600	10×10.5	80, 1450	10×10.5	90, 1250		
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									
47	10×10.5	30, 2100									
56	10×12.5	22, 2400									

Please refer to page 18 for ripple current frequency coefficients.

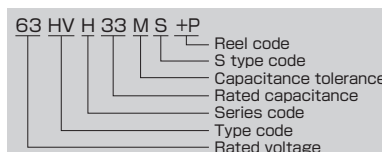
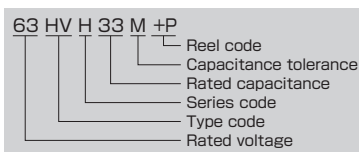
★ S type

ESR(mΩ)max. at 100kHz, 20°C

Case size: φDxL(mm)

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

## Part number



Soldering Condition  
Reflow Soldering Condition  
Ripple Current Frequency Coefficient

HVA

HVBF

HVH

HVP

HVT

HVHZ

HVPZ

HVHF

HVPF

HVPX

HVTX

HVPY

HVTY

HVHC **NEW**

HVPC

HVJ

FVF **NEW**

FVS **NEW**

HEHF

HEPF