

Hybrid Conductive Polymer Type / Surface Mount Type

RoHS compliance

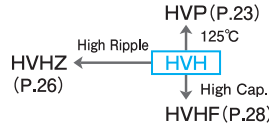
HVH Series

105°C

High Voltage, Long Life



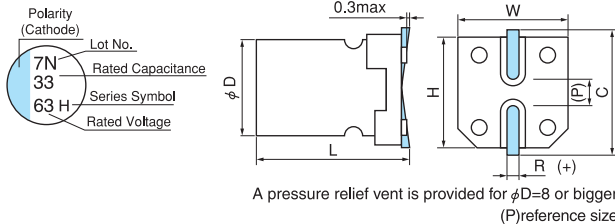
- 105°C, 4,000 to 10,000hours
- Solvent proof (within 2 minutes)



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 ^{+0.5max}	L ^{±0.3}	W ^{±0.2}	H ^{±0.2}	C ^{±0.2}	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 ripple	Case	Rated ripple	Case	Rated ripple	Case	Rated ripple	Case	Rated ripple				
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												

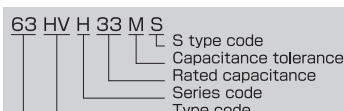
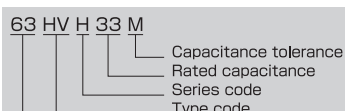
μF	V	63		80		100		125		
		Case	Rated ripple	Case	Rated ripple	Case	Rated ripple	Case	Rated ripple	
6.8		6.3×6.0	150	960						
10		6.3×7.7	100	1060			10×10.5	80	1450	
12					10×10.5	70	1600	10×10.5	80	1450
15					10×10.5	70	1600	10×12.5	60	1660
18					10×12.5	50	1830			
22		8×10.5	40	1560						
33		8×10.5★	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: φD×L (mm)

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

Part number



ESR (mΩ)
max at 100kHz, 20°C

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