

Hybrid Conductive Polymer Type / Surface Mount Type

RoHS compliance

HVH Series

Super Low ESR
High Voltage, Long Life



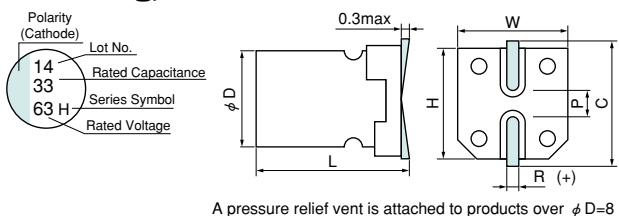
- 105°C, 2,000 to 10,000hrs.
- Solvent proof (within 2 minutes)

125V **NEW** $\phi 6.3 \times 4.5$, $\phi 10 \times 12.5$ **NEW**

■ Specifications

Items	Condition	Specifications							
Rated voltage (V)	—	25	35	40	50	63	80	100	125
Surge voltage (V)	Room temperature	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)	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 _{20°C}	1 to 2.5						
		105°C Z/Z _{20°C}	0.6 to 1.0						
Endurance	105°C rated voltage applied (With the rated ripple current)	Test	$\phi 6.3 \times 4.5$: 2,000hrs., $\phi 6.3 \times 6.0$, $\phi 6.3 \times 7.7$: 5,000hrs., $D \geq \phi 8$: 10,000hrs.						
		$\Delta C/C$	Within $\pm 30\%$ of the initial value						
		tan δ	≤ 2 times the initial specified value						
		ESR	≤ 2 times the initial specified value						
		LC	\leq The initial specified value						

■ Marking, Dimensions



(Unit : mm)

D ^{+0.5max}	L ^{± 0.3}	W ^{± 0.2}	H ^{± 0.2}	C ^{± 0.2}	R	P ^{± 0.2}
6.3	4.5	6.6	6.6	7.3	0.5 to 0.8	2.2
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 List, ESR, Rated Ripple Current

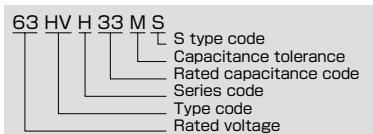
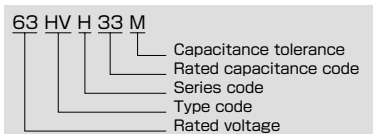
μF	V	25		35		40		50	
10								6.3x6.0	★ 120 980
12				6.3x4.5	150 640				
15								6.3x7.7	80 1200
18						6.3x6.0	110 1030		
27	6.3x4.5	95 800		6.3x6.0	100 1080	6.3x7.7	70 1250		
33								8x10.5	35 1670
47	6.3x6.0	60 1270		6.3x7.7	60 1300				
56						8x10.5	32 1750	10x10.5	25 2320
68	6.3x7.7	45 1400							
82								10x12.5	19 2650
100				8x10.5	30 1800	10x10.5	24 2400		
120						10x12.5	18 2750		
150	8x10.5	27 1900		10x10.5	23 2470				
220				10x12.5	17 2830				
270	10x10.5	22 2530							
330	10x12.5	16 2900							

μF	V	63		80		100		125	
6.8		6.3x6.0	150 960						
10		6.3x7.7	100 1060						
12				10x10.5	70 1600	10x10.5	80 1450	10x10.5	90 1250
15				10x10.5	70 1600	10x12.5	60 1660		
18				10x12.5	50 1830				
22		8x10.5	40 1560						
33		8x10.5	★ 40 1560						
		10x10.5	30 2100						
47		10x10.5	30 2100						
56		10x12.5	22 2400						

Please refer to page 21 for the ripple current frequency coefficient.

★ S type

■ Model No.



Case size: $\phi D \times L$ (mm)

ESR (m Ω)
max at 100kHz, 20°C

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

Basic Construction
Features / Applications
Product Line-up Table

Characteristics

Advantages of EP-cap

Soldering Condition
Recommended Reflow
Condition
Ripple Current Frequency
Coefficient

HVA

HVH

HVP

HVT

HEH