Hybrid Conductive Polymer Type / Surface Mount Type **RoHS compliance**

HVHF Series

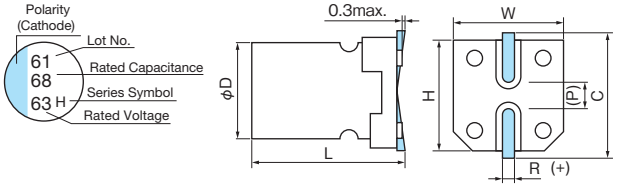
105℃
Long Life

- 105℃ 5,000 to 10,000hours
- Solvent proof (within 2 minutes)
- AEC-Q200

■ Specifications

Items	Condition		Specifications					
Rated voltage (V)	–		25	35	50	63	80	100
Surge voltage (V)	Room temperature		32	44	63	79	100	125
Category temperature range (℃)	–		−55 to +105					
Capacitance tolerance (%)	120Hz/20℃		M : ±20					
Dissipation Factor(tan δ)	tanδ(max.)120Hz/20℃		0.14	0.12	0.10	0.08	0.08	0.08
Leakage current(LC)	μA/after 2minutes (max.), 20℃		0.01CV					
Endurance	105℃ rated voltage applied (With the rated ripple current)	Test	10,000hours(φ6.3×6.0 : 5,000hours)					
		△C/C	Within ±30% of the initial value					
		tanδ	Not more than 200% of the specified value					
		ESR	Not more than 200% of the specified value					
		LC	Not more than the specified value					
Shelf Life	105℃, 1,000hours(with no voltage load)		Shall meet the endurance spec above after voltage treatment at 20deg.C per JIS C 5101-4 4.1.					

■ Marking, Dimensions



A pressure relief vent is provided for φD=8 or bigger
(P)reference size

(Unit : mm)

D±0.5	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	25	35	50	63	80	100
10				6.3×6.0 120 1000		8×10.5 60 1400
15				6.3×6.0★ 120 1000 6.3×7.7 80 1500		10×10.5 45 1500
18						10×12.5 40 1580
22			6.3×6.0 80 1100	6.3×7.7 80 1500	8×10.5 45 1550	
27					8×10.5 45 1550	
33			6.3×7.7 40 1600	8×10.5 40 1700	10×10.5 36 1700	
39					10×12.5 32 1800	
47		6.3×6.0 60 1300		8×10.5 40 1700	10×10.5 36 1700	
56	6.3×6.0 50 1300			10×10.5 30 1800	10×12.5 32 1800	
68		6.3×7.7 35 2000	8×10.5 30 1800	10×12.5 22 2100		
82				10×10.5 30 1800		
100	6.3×7.7 30 2000		10×10.5 28 2000	10×12.5 22 2100		
120			10×10.5 28 2000			
150		8×10.5 27 2300	10×12.5 19 2300			
220	8×10.5 27 2300					
270		10×10.5 20 2500				
330	10×10.5 20 2500	10×12.5 17 2800				
470	10×12.5 16 2800					

Please refer to page 20 for ripple current frequency coefficients.
★ S type

ESR(mΩ)max. at 100kHz, 20℃
Case size:φDxL(mm)
Rated ripple current mArms(100kHz, 105℃)

■ Part number

63 HV HF 68 M +P
- +P : Reel symbol
- M : Capacitance tolerance
- 68 : Rated capacitance
- HF : Series symbol
- HV : Type symbol
- 63 : Rated voltage

63 HV HF 15 M S +P
- +P : Reel symbol
- S : S type symbol
- M : Capacitance tolerance
- 15 : Rated capacitance
- HF : Series symbol
- HV : Type symbol
- 63 : Rated voltage

Please refer to page 18 for anti-vibration structure.

Soldering Condition
Reflow Soldering Condition
Ripple Current Frequency Coefficient
FVL
HVHZ·HVH
HVPZ·HVP
HVT
HVHF
HVPF
HVPX
HVTX
HVHY
HVPY
HVTY
HVHC
HVPC
FVC UPGRADE
FVCL NEW
FVCH NEW
FVFP
FVF UPGRADE
FVS
FEC UPGRADE
FEF UPGRADE