

Hybrid Conductive Polymer Type / Surface Mount Type

RoHS compliance

HVP Series

125°C Super Low ESR

High Voltage, High Reliability



- 125°C, 1,500 to 3,000hrs.
- Solvent proof (within 2 minutes)

40V, 125V

NEW

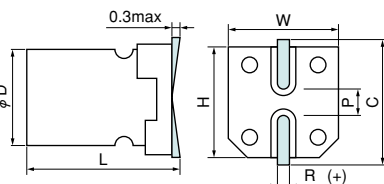
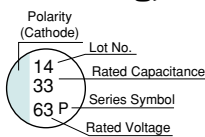
φ6.3×6.0, φ10×12.5

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 +125							
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	Based the value at 120Hz, +20°C	-55°C Z/Z _{20°C}	1 to 2.5						
		125°C Z/Z _{20°C}	0.6 to 1.0						
Impedance ratio	125°C rated voltage applied (With the rated ripple current)	Test	φ6.3×6.0: 1,500hrs., φ6.3×7.7: 2,000hrs., D≥φ8: 3,000hrs.						
		ΔC/C	Within ±30% of the initial value						
		tan δ	≤ 2 times the initial specified value						
		ESR	≤ 2 times the initial specified value						
		LC	≤ The initial specified value						

Marking, Dimensions



A pressure relief vent is attached to products over φ D=8

(Unit : mm)

D ^{+0.5max}	L ^{±0.3}	W ^{±0.2}	H ^{±0.2}	C ^{±0.2}	R	P ^{±0.2}
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

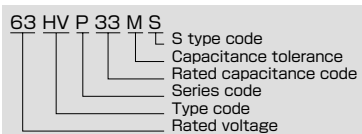
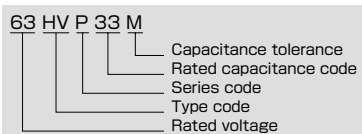
μF \ V	25				35				40				50			
10													6.3×6.0★	120	690	
15													6.3×7.7	80	840	
18									6.3×6.0	110	720					
27					6.3×6.0	100	760		6.3×7.7	70	870					
33													8×10.5	35	1170	
47	6.3×6.0	60	890		6.3×7.7	60	910									
56									8×10.5	32	1220	10×10.5	25	1390		
68	6.3×7.7	45	980													
82													10×12.5	19	1590	
100					8×10.5	30	1260		10×10.5	24	1440					
120									10×12.5	18	1650					
150	8×10.5	27	1330		10×10.5	23	1480									
220					10×12.5	17	1700									
270	10×10.5	22	1520													
330	10×12.5	16	1740													

μF \ V	63				80				100				125				
6.8	6.3×6.0	150	670														
10	6.3×7.7	100	740									10×10.5	80	870	10×10.5	90	750
12								10×10.5	70	900	10×10.5	80	870				
15								10×10.5	70	900	10×12.5	60	1000				
18								10×12.5	50	1100							
22	8×10.5	40	1090														
33	8×10.5★	40	1090														
	10×10.5	30	1260														
47	10×10.5	30	1260														
56	10×12.5	22	1440														

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

Case size: φD×L(mm)
ESR(mΩ)
max at 100kHz, 20°C

Model No.



Rated ripple current
mA rms (100kHz, 125°C)