

Hybrid Conductive Polymer Type / Surface Mount Type

RoHS compliance

**HVT** Series

135°C guaranteed



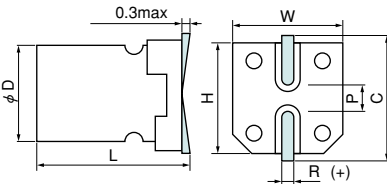
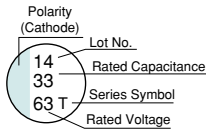
- 135°C, 1,000 to 2,000hrs.
- Solvent proof (within 2 minutes)

**40V NEW**  $\phi 6.3 \times 7.7, \phi 10 \times 12.5$  **NEW**

■ Specifications

Items	Condition	Specifications				
Rated voltage (V)	—	25	35	40	50	63
Surge voltage (V)	Room temperature	32	44	50	63	79
Category temperature range (°C)	—	-55 to +135				
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/Z20°C	1 to 2.5			
		135°C Z/Z20°C	0.6 to 1.0			
Impedance ratio	135°C rated voltage applied (With the rated ripple current)	Test	φ6.3 : 1,000hrs., D≥φ8 : 2,000hrs.			
		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 <sup>+0.5max</sup>	L <sup>±0.3</sup>	W <sup>±0.2</sup>	H <sup>±0.2</sup>	C <sup>±0.2</sup>	R	P <sup>±0.2</sup>
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	25		35		40		50	
	V	Case size	V	Case size	V	Case size	V	Case size
15							6.3x7.7	80   670
27						6.3x7.7	70   700	
33							8x10.5	35   940
47			6.3x7.7	60   730				
56					8x10.5	32   980	10x10.5	25   1110
68	6.3x7.7	45   780						
82							10x12.5	19   1270
100			8x10.5	30   1010	10x10.5	24   1150		
120					10x12.5	18   1320		
150	8x10.5	27   1060	10x10.5	23   1180				
220			10x12.5	17   1360				
270	10x10.5	22   1220						
330	10x12.5	16   1390						

μF	63			
	V	Case size	V	Case size
10	6.3x7.7	100   590		
22	8x10.5	40   870		
33	8x10.5★	40   870		
	10x10.5	30   1010		
47	10x10.5	30   1010		
56	10x12.5	22   1150		

Rated ripple current  
mArms(100kHz, 135°C)

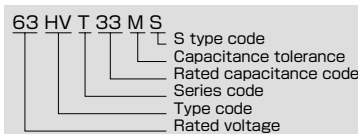
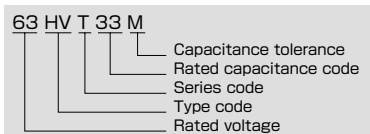
ESR(mΩ)  
max at 100kHz, 20°C

Case size:φDxL(mm)

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

★ S type

■ Model No.



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