

Hybrid Conductive Polymer Type / Surface Mount Type

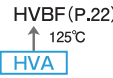
RoHS compliance

HVA Series

Super Low ESR



- 105°C, 3,000 to 5,000hours
- Solvent proof (within 2 minutes)

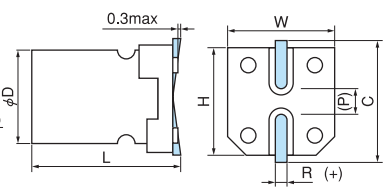
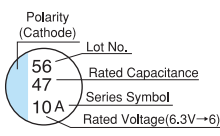


Specifications

Items	Condition	Specifications		
Rated voltage (V)	—	6.3	10	16
Surge voltage (V)	Room temperature	8.2	13	20
Category temperature range (°C)	—	-55 to +105		
Capacitance tolerance (%)	120Hz/20°C	M : ±20		
Dissipation Factor (tan δ)	tanδ (max) 120Hz/20°C	0.18	0.16	0.14
Leakage current (LC) ★	μA/after 2minutes (max)	The greater value of either 0.2CV or 100		
Endurance	105°C rated voltage applied (With the rated ripple current)	Test	φ6.3 : 3,000hours, D≥φ8 : 5,000hours	
		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	

★Please apply the rated voltage for 120 seconds at 105°C in case the measured value is bigger 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

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

Size, ESR, Rated Ripple Current

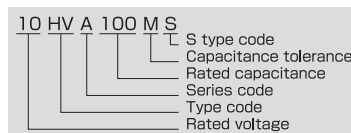
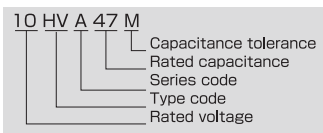
μF	V	6.3		10		16	
10						6.3×6.0	54 1130
22						6.3×6.0	54 1130
33				6.3×6.0	40 1510	6.3×6.0	54 1130
47				6.3×6.0	40 1510	6.3×7.7 ★	45 1480
68				6.3×6.0	40 1510	8×10.5	22 2290
100				6.3×7.7 ★	35 1910	8×10.5	22 2290
		6.3×6.0	36 1630	8×10.5	18 2800		
150				6.3×7.7 ★	35 1910	10×10.5	20 2920
		6.3×6.0	36 1630	8×10.5	18 2800		
220		6.3×7.7 ★	32 2020				
		8×10.5	16 3150	8×10.5	18 2800		
330		8×10.5	16 3150	8×10.5	18 2800		
390		8×10.5	16 3150				
470		8×10.5	16 3150	10×10.5	16 3650		
560		8×10.5	16 3150	10×10.5	16 3650		
680		10×10.5	15 3890				
820		10×10.5	15 3890				
1000		10×10.5	15 3890				

Please refer to page 20 for ripple current frequency coefficients.

★S type

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

Part number



Aluminum Electrolytic Capacitors with Hybrid Conductive Polymer

Basic Construction Features Characteristics

Advantages of EP-cap

Soldering Condition
Reflow Soldering Condition
Ripple Current Frequency Coefficient

HVA

HVBF

HVH

HVP

HVT

HVHZ

HVPZ

HVHF

HVPF

HEH

HEHZ

HEPZ