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

HVA Series

Super Low ESR

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

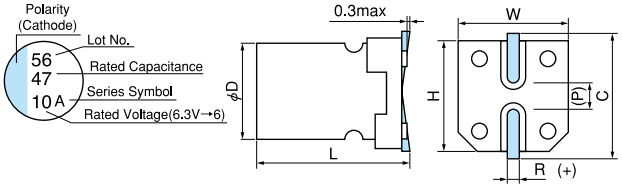
HVBF (P.22)
↑ 125℃
HVA

■ Specifications

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

■ Marking, Dimensions



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

(Unit : mm)

D$^{+0.5max}$	L$^{\pm0.3}$	W$^{\pm0.2}$	H$^{\pm0.2}$	C$^{\pm0.2}$	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

■ 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							6.3×7.7 ★	45	1480
				6.3×6.0	40	1510	8×10.5	22	2290
68				6.3×6.0	40	1510	8×10.5	22	2290
100				6.3×7.7 ★	35	1910			
	6.3×6.0	36	1630	8×10.5	18	2800	8×10.5	22	2290
150				6.3×7.7 ★	35	1910			
	6.3×6.0	36	1630	8×10.5	18	2800	10×10.5	20	2920
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

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

■ Part number

10 HV A 47 M
- Capacitance tolerance
- Rated capacitance
- Series code
- Type code
- Rated voltage

10 HV A 100 M S
- S type code
- Capacitance tolerance
- Rated capacitance
- Series code
- Type code
- Rated voltage