

Hybrid Conductive Polymer Type / Surface Mount Type

RoHS compliance

# HVBF Series

Long Life

125°C



- 125°C, 1,500 to 2,000hours
- 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 +125		
Capacitance tolerance (%)	120Hz/20°C	M : ±20		
Dissipation Factor (tan δ)	tan δ (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	125°C rated voltage applied (With the rated ripple current)	Test	φ6.3 : 1,500hours, D≥φ8 : 2,000hours	
		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 125°C in case the measured value is bigger than the specified value.

## Marking, Dimensions

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
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) preference size

## Size, ESR, Rated Ripple Current

μF	V	6.3		10		16	
33						6.3×6.0	54 640
47				6.3×6.0	40 850	6.3×7.7	45 830
68				6.3×6.0	40 850		
100		6.3×6.0	36 920	6.3×7.7	35 1020	8×10.5	22 1300
150		6.3×6.0	36 920			10×10.5	20 1650
220		6.3×7.7	32 1140				
330				8×10.5	18 1580		
560		8×10.5	16 1780	10×10.5	16 2060		
1000		10×10.5	15 2200				

Please refer to page 20 for ripple current frequency coefficients.

Rated ripple current  
mArms(100kHz, 125°C)  
Case size:φDxL(mm)  
ESR(mΩ)  
max at 100kHz, 20°C

## Part number

16 HV BF 33 M

- 16: Rated voltage
- HV: Type code
- BF: Series code
- 33: Rated capacitance
- M: Capacitance tolerance