

Hybrid Conductive Polymer Type / Surface Mount Type

RoHS compliance

HVPF Series

125°C Long Life

High Ripple Current
High Capacitance



- 125°C 4,000hours
- Solvent proof (within 2 minutes)

HVP (P.24)
↓
High Cap.
HVPF



Aluminum Electrolytic Capacitors with Hybrid Conductive Polymer

Specifications

Items	Condition	Specifications				
Rated voltage (V)	—	25	35	50	63	80
Surge voltage (V)	Room temperature	32	44	63	79	100
Category temperature range (°C)	—	-55 to +125				
Capacitance tolerance (%)	120Hz/20°C	M : ±20				
Dissipation Factor (tan δ)	tan δ (max) 120Hz/20°C	0.14	0.12	0.10	0.08	0.08
Leakage current (LC)	μA/after 2minutes (max)	≤ 63V	The greater value of either 0.01CV or 3			
		80V	The greater value of either 0.05CV or 100			
Endurance	125°C rated voltage applied (With the rated ripple current)	Test	4,000hours			
		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			

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

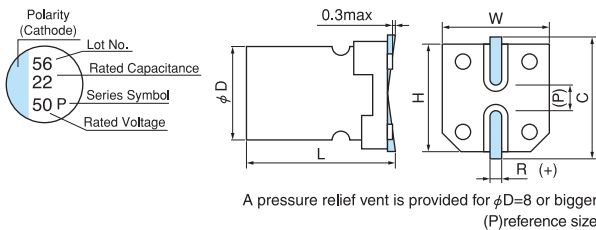
HVPF

HEH

HEHZ

HEPZ

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
10	12.5	10.3	10.3	11.0	1.0 to 1.4	4.6

Size, ESR, Rated Ripple Current

μF \ V	25	35	50	63	80
10				6.3×6.0 120 700	
15				6.3×7.7 80 900	
22			6.3×6.0 80 750		8×10.5 45 1030
33			6.3×7.7 40 1100	8×10.5 40 1100	10×10.5 36 1270
39					10×12.5 32 1360
47		6.3×6.0 60 900			
56	6.3×6.0 50 900			10×10.5 30 1400	
68		6.3×7.7 35 1400	8×10.5 30 1250	10×12.5 22 1650	
100	6.3×7.7 30 1400				
120			10×10.5 28 1600		
150		8×10.5 27 1600	10×12.5 19 1820		
220	8×10.5 27 1600				
270		10×10.5 20 2000			
330	10×10.5 20 2000	10×12.5 17 2260			
470	10×12.5 16 2260				

Please refer to page 20 for ripple current frequency coefficients.

ESR(mΩ)max at 100kHz, 20°C

Case size: φDxL(mm)

Rated ripple current
mAmps(100kHz, 125°C)

Part number

