

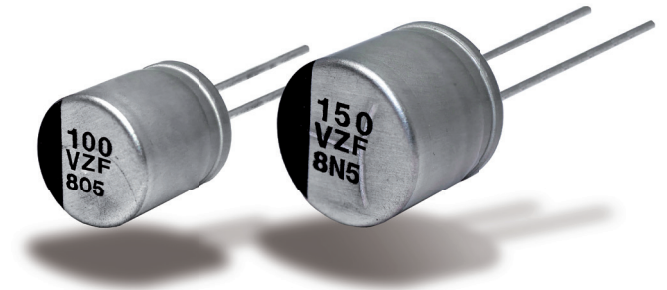
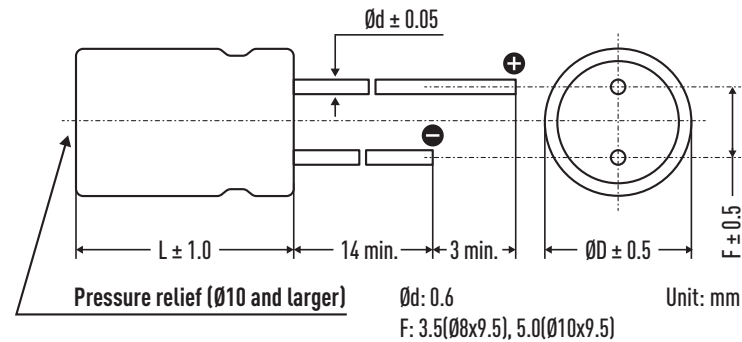
CONDUCTIVE POLYMER HYBRID ALUMINUM ELECTROLYTIC CAPACITORS

Panasonic
INDUSTRY

ZF-SERIES: THROUGH-HOLE VARIANT IN HYBRIDS SUITABLE FOR HIGH TEMPERATURE APPLICATIONS

ZF-Series Added Value

- Temperature range: -55°C to 150°C
- High capacitance in THT form: 33 to 270μF
- Ripple current ratings up to 1 Arms
- ESR as low as 20mΩ
- Size: Ø8 x 9.5mm, Ø10 x 9.5mm



Size/Specifications		Rated Voltage			
		25V	35V	50V	63V
Ø8 x 9.5	Cap. [μF]	150	100	56	33
	ESR [mΩ]	27	30	35	40
	Ripple [mA] @150°C	800	770	700	650
Ø10 x 9.5	Cap. [μF]	270	150	100	56
	ESR [mΩ]	20	23	28	30
	Ripple [mA] @150°C	1,000	950	900	840

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PRODUCT LINE-UP OF HYBRID CAPACITOR

	ZA	ZC	ZK	ZKU <small>NEW</small>	ZS	ZE	ZF
Endurance	105°C 10,000h	125°C 4,000h	125°C 4,000h	125°C 4,000h	125°C 4,000h	145°C 2,000h	150°C 1,000h
Rated Voltage [V DC]	25 – 80	25 – 80	25 – 35	25 – 35	25 – 63	25 – 63	25 – 63
Rated Capacitance [μ F]	10 – 330	10 – 330	33 – 470	39 – 560	150 – 560	33 – 330	33 – 270
E S R [m Ω]	20 – 120	20 – 120	20 – 100	20 – 100	11 – 15	20 – 40	20 – 40
Ripple Current [Arms@Peak Temperature]	0.75 – 2.5	0.5 – 2	0.75 – 2.8	0.75 – 2.8	3.5 – 4	0.6 – 0.9	0.65 – 1
Leakage Current	0.01 CV						
Damp Heat	85°C 85% RH 2,000 h						

Anti-vibration SMD Capacitors

Specification	
Acceleration	294m/S ² (30G)
Frequency [Hz]	5~2000
Amplitude [mm]	max. 5 (peak to peak)
Direction and Duration of Vibration	X, Y, Z axes for 2 hours each

- Excellent Anti-vibration performance
- Anti-vibration variants are available from \varnothing 6mm above



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For complete and current
 Panasonic capacitor portfolio,
 please also visit industrial.panasonic.com