

KZ series

Features

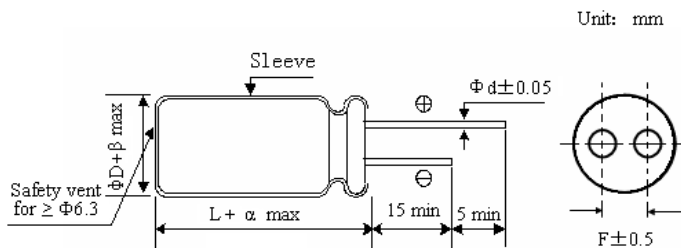
- ◆ Low impedance , 2000 hours at 105°C.
- ◆ Ideally suited for switching power supplies .
- ◆ RoHS Compliant .



Specifications

Item	Performance Characteristics						
Temperature Range	-25~+105°C						
Rated Voltage Range	160~450Vdc						
Capacitance Range	1.0~330μF						
Capacitance Tolerance	±20% (120Hz, +20°C)						
Leakage Current (+20°C,max.)	I≤0.02CV+30 (μA) After 2 minutes, whichever is greater measured with rated working voltage applied						
Dissipation Factor (tgδ) 120Hz, +20°C	Working Voltage(Vdc)	160	200	250	350	400	450
	D.F.(%)max.	12	12	12	15	15	15
Low Temperature Characteristics(120Hz)	Impedance ratio max.						
	Working Voltage(Vdc)	160	200	250	350	400	450
	Z-25°C/ Z+20°C	3	3	3	6	6	6
Endurance	The following specifications shall be satisfied when the capacitors are restored to 20°C after the rated voltage is applied for 2000 hours at 105°C						
	Capacitance Change	≤±20% of the initial value					
	D.F.(tgδ)	≤200% of the initial specified value					
	Leakage Current	≤The initial specified value					
Shelf Life	After storing the capacitors under no load at 105°C for 1000 hours and then performing voltage treatment based on JIS C 5101-4 clause 4.1 at 20°C.						
	Capacitance Change	≤±20% of the initial value					
	D.F.(tgδ)	≤200% of the initial specified value					
	Leakage Current	≤200% The initial specified value					
Others	JISC-5101(IEC 60384)						

Diagram of Dimensions



Frequency Multipliers

WV	Hz	120	1K	10K	100K
	160~450	0.50	0.80	0.90	1.00

ΦD	8	10	13	16	18
F	3.5	5.0	5.0	7.5	7.5
Φd	0.5	0.6	0.6	0.8	0.8
α	(L < 20) + 1.5		(L ≥ 20) + 2.0		
β	(D < 20) + 0.5		(D ≥ 20) + 1.0		

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Standard Ratings

Voltage	160			200			250		
Cap(μF)	Case Size	Impedance	Ripple Current	Case Size	Impedance	Ripple Current	Case Size	Impedance	Ripple Current
3.3							8×12	3.85	75
4.7				8×12	5.00	78	10×13	2.95	100
6.8	8×12	3.12	92	10×13	2.71	115	10×17	2.20	126
10	10×13	2.69	140	10×17	2.02	150	10×20	1.75	160
22	10×17	1.30	205	10×20	1.40	205	13×20	1.30	210
33	10×20	1.10	260	13×20	0.80	330	13×25	0.90	310
47	13×20	0.91	320	13×25	0.51	400	16×25	0.45	405
68	13×25	0.56	450	16×25	0.35	540	16×30	0.38	490
100	16×25	0.47	540	16×30	0.28	780	16×35	0.27	675
150	16×30	0.26	710	16×35	0.23	840	18×35	0.24	750
220	16×35	0.19	820	18×40	0.16	1050			
330	18×40	0.16	1180						

Voltage	350			400			450		
Cap(μF)	Case Size	Impedance	Ripple Current	Case Size	Impedance	Ripple Current	Case Size	Impedance	Ripple Current
1.0							8×12	17.35	45
2.2				8×12	13.0	76	10×13	10.25	65
3.3	8×12	3.80	86	10×13	12.0	86	10×17	10.00	89
4.7	10×13	3.13	118	10×17	10.0	105	10×20	5.00	105
6.8	10×17	1.65	132	10×20	7.50	160	13×20	4.05	135
10	10×20	1.35	165	13×20	3.60	235	13×25	3.75	180
22	13×20	1.22	220	13×25	2.65	295	16×25	2.80	320
33	13×25	1.02	263	16×25	1.60	440	16×30	2.20	460
47	16×25	0.76	389	16×30	1.40	580	16×35	1.05	730
68	16×30	0.56	475	16×35	0.80	800	18×35	0.75	760
100	18×30	0.55	487	18×35	0.61	900			
150	18×40	0.50	590						

Max Allowable Ripple Current (mA,rms) at 105°C 100KHz, Max Impedance(Ω) at 20°C 100 KHz,Case Size ΦD×L(mm).

Above size is the standard size for our product. If you need special size please contact our sales offices.