

Upgrade!

KZE Series

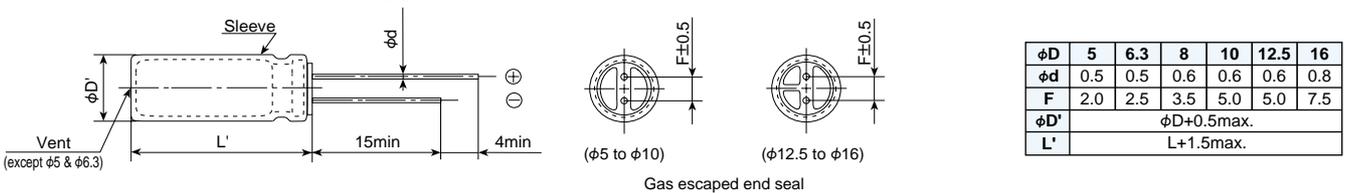
- Ultra Low impedance for Personal Computer and Storage Equipment
- Rated voltage 63 to 100V newly added **Upgrade!**
- Endurance with ripple current: 105°C 2000 to 5000 hours
- Non solvent-proof type



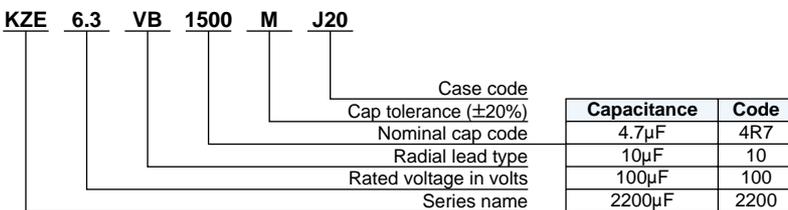
◆ SPECIFICATIONS

Items	Characteristics
Category	
Temperature Range	-40 to +105°C
Rated Voltage Range	6.3 to 100V _{dc}
Capacitance Tolerance	±20% (M) (at 20°C, 120Hz)
Leakage Current	I=0.01CV or 3μA, whichever is greater. Where, I : Max. leakage current (μA), C : Nominal capacitance (μF), V : Rated voltage (V) (at 20°C after 2 minutes)
Dissipation Factor (tanδ)	Rated voltage (V _{dc})
	tanδ (Max.)
Low Temperature Characteristics (Max. Impedance Ratio)	Z (-25°C) / Z (+20°C)
	Z (-40°C) / Z (+20°C)
Endurance	The following specifications shall be satisfied when the capacitors are restored to 20°C after subjected to DC voltage with the rated ripple current is applied for the specified period of time at 105°C.
Shelf Life	The following specifications shall be satisfied when the capacitors are restored to 20°C after exposing them for 500 hours at 105°C without voltage applied.
	Capacitance change
	D.F. (tanδ)
	Leakage current

◆ DIMENSIONS (Radial Lead Type=VB) [mm]



◆ PART NUMBERING SYSTEM



◆ RATED RIPPLE CURRENT MULTIPLIERS

- Frequency Multipliers

Capacitance(μF)	Frequency (Hz)			
	120	1k	10k	100k
6.8 to 180	0.40	0.75	0.90	1.00
220 to 560	0.50	0.85	0.94	1.00
680 to 1,800	0.60	0.87	0.95	1.00
2,200 to 3,900	0.75	0.90	0.95	1.00
4,700 to	0.85	0.95	0.98	1.00

Upgrade!

KZE Series

◆STANDARD RATINGS

Case size φD×L (mm)	V _{dc} Case code	6.3				10				16			
		Capacitance (μF)	Impedance (Ω _{max} /100kHz)		Rated ripple current (mA _{rms} /105°C 100kHz)	Capacitance (μF)	Impedance (Ω _{max} /100kHz)		Rated ripple current (mA _{rms} /105°C 100kHz)	Capacitance (μF)	Impedance (Ω _{max} /100kHz)		Rated ripple current (mA _{rms} /105°C 100kHz)
			20°C	-10°C			20°C	-10°C			20°C	-10°C	
5×11	E11	150	0.30	1.0	250	100	0.30	1.0	250	56	0.30	1.0	250
6.3×11	F11	330	0.13	0.41	405	220	0.13	0.41	405	120	0.13	0.41	405
8×11.5	H11	560	0.072	0.22	760	470	0.072	0.22	760	330	0.072	0.22	760
8×15	H15	820	0.056	0.17	995	680	0.056	0.17	995	470	0.056	0.17	995
8×20	H20	1,200	0.041	0.13	1,250	1,000	0.041	0.13	1,250	680	0.041	0.13	1,250
10×12.5	J12	1,000	0.053	0.16	1,030	680	0.053	0.16	1,030	470	0.053	0.16	1,030
10×16	J16	1,200	0.038	0.12	1,430	1,000	0.038	0.12	1,430	680	0.038	0.12	1,430
10×20	J20	1,500	0.023	0.069	1,820	1,200	0.023	0.069	1,820	1,000	0.023	0.069	1,820
10×25	J25	2,200	0.022	0.066	2,150	1,500	0.022	0.066	2,150	1,200	0.022	0.066	2,150
12.5×20	K20	3,300	0.021	0.053	2,360	2,200	0.021	0.053	2,360	1,500	0.021	0.053	2,360
12.5×25	K25	3,900	0.018	0.045	2,770	3,300	0.018	0.045	2,770	2,200	0.018	0.045	2,770
12.5×30	K30	4,700	0.016	0.041	3,290	3,900	0.016	0.041	3,290	2,700	0.016	0.041	3,290
12.5×35	K35	5,600	0.015	0.039	3,400	4,700	0.015	0.039	3,400	3,300	0.015	0.039	3,400
16×20	L20	5,600	0.018	0.045	3,140	3,900	0.018	0.045	3,140	2,700	0.018	0.045	3,140
16×25	L25	6,800	0.016	0.043	3,460	5,600	0.016	0.043	3,460	3,900	0.016	0.043	3,460

Case size φD×L (mm)	V _{dc} Case code	25				35				50			
		Capacitance (μF)	Impedance (Ω _{max} /100kHz)		Rated ripple current (mA _{rms} /105°C 100kHz)	Capacitance (μF)	Impedance (Ω _{max} /100kHz)		Rated ripple current (mA _{rms} /105°C 100kHz)	Capacitance (μF)	Impedance (Ω _{max} /100kHz)		Rated ripple current (mA _{rms} /105°C 100kHz)
			20°C	-10°C			20°C	-10°C			20°C	-10°C	
5×11	E11	47	0.30	1.0	250	33	0.30	1.0	250	22	0.34	1.18	238
6.3×11	F11	100	0.13	0.41	405	56	0.13	0.41	405	56	0.14	0.50	385
8×11.5	H11	220	0.072	0.22	760	150	0.072	0.22	760	100	0.074	0.22	724
8×15	H15	330	0.056	0.17	995	220	0.056	0.17	995	120	0.061	0.18	950
8×20	H20	470	0.041	0.13	1,250	270	0.041	0.13	1,250	180	0.046	0.14	1,190
10×12.5	J12	330	0.053	0.16	1,030	220	0.053	0.16	1,030	150	0.061	0.18	979
10×16	J16	470	0.038	0.12	1,430	330	0.038	0.12	1,430	220	0.042	0.12	1,370
10×20	J20	680	0.023	0.069	1,820	470	0.023	0.069	1,820	270	0.030	0.090	1,580
10×25	J25	820	0.022	0.066	2,150	560	0.022	0.066	2,150	330	0.028	0.085	1,870
12.5×20	K20	1,000	0.021	0.053	2,360	680	0.021	0.053	2,360	470	0.027	0.068	2,050
12.5×25	K25	1,500	0.018	0.045	2,770	1,000	0.018	0.045	2,770	560	0.023	0.059	2,410
12.5×30	K30	1,800	0.016	0.041	3,290	1,200	0.016	0.041	3,290	680	0.021	0.052	2,860
12.5×35	K35	2,200	0.015	0.039	3,400	1,500	0.015	0.039	3,400	820	0.019	0.051	2,960
16×20	L20	1,800	0.018	0.045	3,140	1,200	0.018	0.045	3,140	820	0.023	0.059	2,730
16×25	L25	2,700	0.016	0.043	3,460	1,800	0.016	0.043	3,460	1,000	0.021	0.056	3,010

Case size φD×L (mm)	V _{dc} Case code	63				80				100			
		Capacitance (μF)	Impedance (Ω _{max} /100kHz)		Rated ripple current (mA _{rms} /105°C 100kHz)	Capacitance (μF)	Impedance (Ω _{max} /100kHz)		Rated ripple current (mA _{rms} /105°C 100kHz)	Capacitance (μF)	Impedance (Ω _{max} /100kHz)		Rated ripple current (mA _{rms} /105°C 100kHz)
			20°C	-10°C			20°C	-10°C			20°C	-10°C	
5×11	E11	15	0.88	3.5	165					6.8	1.4	5.6	125
6.3×11	F11	33	0.35	1.4	265					15	0.57	2.3	205
8×11.5	H11	56	0.22	0.88	500					27	0.36	1.4	355
8×15	H15	82	0.16	0.64	665					39	0.25	1.0	450
8×20	H20	120	0.12	0.48	820					56	0.19	0.76	565
10×12.5	J12	82	0.11	0.44	690	68	0.17	0.66	480	47	0.17	0.66	480
10×16	J16	120	0.076	0.31	950	100	0.11	0.47	600	68	0.11	0.47	600
10×20	J20	180	0.056	0.23	1,150	120	0.084	0.34	800	82	0.084	0.34	800
10×25	J25	220	0.046	0.19	1,350	150	0.069	0.28	900	120	0.069	0.28	900
12.5×16	K16	180	0.072	0.29	1,150	150	0.11	0.34	750	100	0.11	0.34	750
12.5×20	K20	270	0.041	0.13	1,500	220	0.062	0.18	1,100	150	0.062	0.18	1,100
12.5×25	K25	390	0.031	0.093	1,900	330	0.047	0.14	1,250	220	0.047	0.14	1,250
12.5×30	K30	470	0.028	0.084	2,300	390	0.042	0.13	1,500	270	0.042	0.13	1,500
12.5×35	K35	560	0.024	0.072	2,500	470	0.036	0.11	1,650	330	0.036	0.11	1,650
12.5×40	K40	680	0.021	0.063	2,800	560	0.032	0.095	1,800	390	0.032	0.095	1,800
16×20	L20	470	0.032	0.096	2,000	330	0.048	0.15	1,350	220	0.048	0.15	1,350
16×25	L25	680	0.025	0.075	2,600	470	0.038	0.12	1,700	330	0.038	0.12	1,700
16×31.5	L31	820	0.021	0.063	2,850	680	0.032	0.095	1,850	470	0.032	0.095	1,850
16×35.5	L35	1,000	0.019	0.057	2,900	820	0.029	0.086	2,000	560	0.029	0.086	2,000
16×40	L40	1,200	0.018	0.054	3,400	1,000	0.027	0.081	2,200	680	0.027	0.081	2,200
18×20	M20	680	0.030	0.090	2,500	470	0.045	0.14	1,500	330	0.045	0.14	1,500
18×25	M25	820	0.024	0.072	2,800	680	0.036	0.11	1,750	470	0.036	0.11	1,750
18×31.5	M31	1,200	0.020	0.060	3,300	820	0.030	0.090	1,900	560	0.030	0.090	1,900
18×35.5	M35	1,500	0.018	0.054	3,400	1,000	0.027	0.081	2,200	680	0.027	0.081	2,200
18×40	M40	1,800	0.017	0.051	3,500	1,200	0.026	0.077	2,700	820	0.026	0.077	2,700