

KZB Miniature Aluminium Electrolytic Capacitors

105°C Non-polar High Temperature Miniature Capacitors, Series KZB.

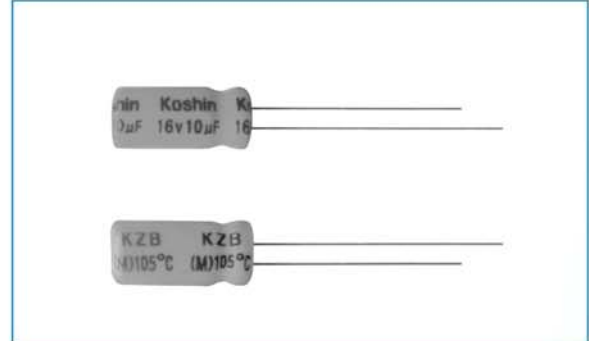
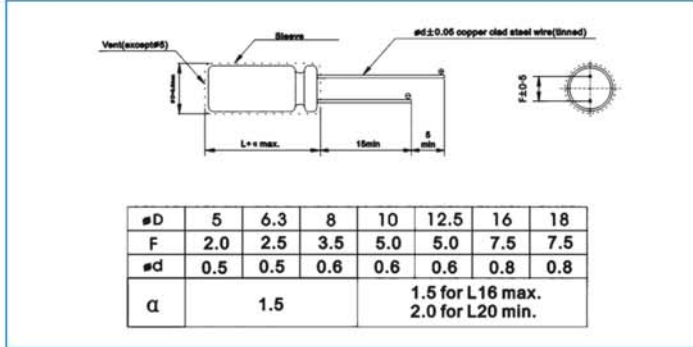
Guaranteed 2000 hours at 105°C

Outline Drawing

Unit: mm

Photo

RoHS



Making color: black print on a red sleeve

Specifications

No.	Item	Performance
1	Temperature range (°C)	-40 to +105
2	Leakage current (μA)	Less than 0.03CV or 3 whichever is larger(after five minutes) C: Rated Capacitance(μF); V: Rated voltage(V) 20°C
3	Capacitance tolerance (%)	± 20 (20°C, 120Hz)
4	Tangent of the loss angle (Tan δ)	Rated voltage (V) 6.3 10 16 25 35 50 63 100 160 200 250 (20°C, 120Hz)
		Tan δ (max) 0.25 0.25 0.20 0.15 0.15 0.13 0.10 0.09 0.15 0.15 0.15
0.02 is added to every 1000 μF increase over 1000 μF		
5	Low temperature characteristics	Rated voltage (V) 6.3 10 16 25 35 50 63 100 160 200 250 (120Hz)
		Impedance ratio (max) Z(-25°C)/Z(+20°C) 4 3 3 2 2 2 2 2 2 2 3 Z(-40°C)/Z(+20°C) 8 6 6 4 4 3 3 3 4 4 6
6	Endurance (105°C) (Applied ripple current)	Test time 2000hours (with the polarity inverted every 250 hrs)
		Leakage current The initial specified value or less
		Percentage of capacitance change Within ± 20% of initial value
		Tangent of the loss angle 200% or less of the initial specified value
7	Shelf life (105°C)	Test time 1000hours
		Leakage current The initial specified value or less
		Percentage of capacitance change Within ± 20% of initial value
		Tangent of the loss angle 200% or less of the initial specified value
8	Applicable standards	JIS-C-5102 and JIS-C- 5141

Coefficient of Frequency for Ripple Current

Rated voltage (v)	Frequency (Hz)			
	50 · 60	120	1K	10K · 100K
CAP ≤ 10	0.80	1.00	1.30	1.70
10 < CAP ≤ 100	0.80	1.00	1.23	1.53
100 < CAP ≤ 1000	0.80	1.00	1.16	1.38
1000 < CAP	0.80	1.00	1.11	1.28

Coefficient of Temperature for Ripple Current

Temperature(°C)	45	60	70	85	105
Coefficient	2.10	1.90	1.65	1.40	1.00

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Dimension: Φ DxL(mm)

Ripple Current: mA/rms at 120Hz, 105°C

DIMENSION & PERMISSIBLE RIPPLE CURRENT

V.DC μ F Contents	6.3V		10V		16V		25V		35V		50V		63V		100V	
	Φ DxL	mA	Φ DxL	mA	Φ DxL	mA	Φ DxL	mA	Φ DxL	mA	Φ DxL	mA	Φ DxL	mA	Φ DxL	mA
0.1											5X11	4	5X11	5	5X11	5
0.22											5X11	5	5X11	6	5X11	6
0.33											5X11	6	5X11	6	5X11	7
0.47											5X11	7	5X11	8	5X11	8
1											5X11	10	5X11	11	5X11	12
2.2											5X11	15	5X11	16	6.3X11	20
3.3											5X11	18	5X11	20	6.3X11	25
4.7											5X11	21	5X11	22	6.3X11	30
10					5X11	27	5X11	27	5X11	30	6.3X11	37	6.3X11	40	8X11.5	50
22	5X11	34	5X11	34	5X11	40	6.3X11	46	6.3X11.5	51	8X11.5	63	8X11.5	68	10X16	97
33	5X11	45	5X11	45	5X11	49	6.3X11	56	8X11.5	72	8X11.5	77	10X12.5	98	10X20	140
47	5X11	54	5X11	54	6.3X11	67	6.3X11	67	8X11.5	86	10X12.5	105	10X16	130	12.5X20	170
100	6.3X11	90	6.3X11	90	8X11.5	110	8X11.5	110	10X16	160	10X20	190	12.5X20	225	16X25	300
220	8X11.5	150	8X11.5	150	10X12.5	195	10X16	215	12.5X20	290	12.5X25	340	16X25	405	16X35.5	510
330	8X11.5	185	10X16	240	10X16	265	12.5X20	320	12.5X20	350	16X25	460	16X31.5	535		
470	10X12.5	260	10X16	290	10X20	345	12.5X25	380	12.5X25	465	16X31.5	590	18X35.5	680		
1000	10X20	460	12.5X20	510	12.5X25	605	16X25	670	16X31.5	805						
2200	12.5X25	820	16X25	940	16X31.5	1070	18X35.5	1140								

V.DC μ F Contents	160V		200V		250V	
	Φ DxL	mA	Φ DxL	mA	Φ DxL	mA
0.47	5X11	8	6.3X11	9	6.3X11	10
1	6.3X11	11	8X11.5	12	8X11.5	13
2.2	8X11.5	18	8X11.5	22	10X12.5	26
3.3	8X11.5	26	10X12.5	30	10X16	37
4.7	10X12.5	31	10X16	37	10X20	50
10	10X16	60	10X20	66	10X20	79
22	12.5X20	117	12.5X20	117	12.5X25	138
33	12.5X20	143	12.5X25	158	16X25	169
47	16X25	188				