

KZM Miniature Aluminium Electrolytic Capacitors

High Temperature Miniature Capacitors, Series KZM

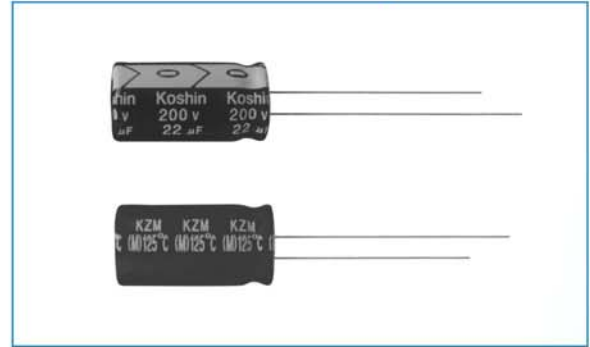
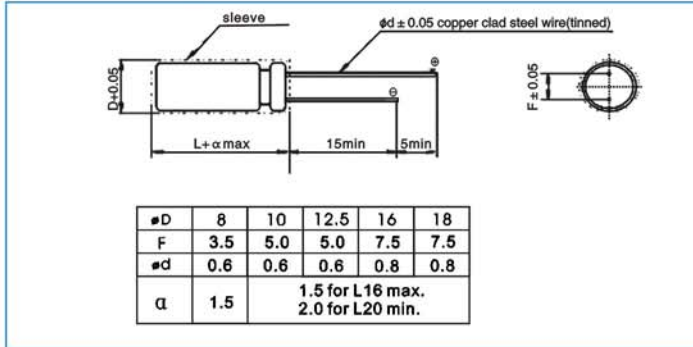
Guaranteed 1000 hours at 125°C

RoHS

Outline Drawing

Unit: mm

Photo



Making color: white print on black sleeve

Specifications

No.	Item	Performance													
		-40 to +125 (10V ~ 100V)						-25 to +125(160V ~ 350V)							
1	Temperature range (°C)	-40 to +125 (10V ~ 100V)						-25 to +125(160V ~ 350V)							
2	Leakage current (μA)	Less than 0.01CV or 3 whichever is larger (after two minutes)						Less than 0.02CV (after two minutes) 20°C							
3	Capacitance tolerance (%)	± 20 (20°C, 120Hz)													
4	Tangent of the loss angle (Tan δ)	Rated voltage (V)		10	16	25	35	50	63	100	160	200	250	350	(20°C, 120Hz)
		Tan δ (max)		0.19	0.16	0.14	0.12	0.10	0.09	0.08	0.15	0.15	0.15	0.15	
5	Low temperature characteristics	Rated voltage (V)		10	16	25	35	50	63	100	160	200	250	350	(120Hz)
		Impedance ratio (max)	$Z_{(-25^\circ\text{C})}/Z_{(+20^\circ\text{C})}$	3	2	2	2	2	2	2	2	2	2	2	
			$Z_{(-40^\circ\text{C})}/Z_{(+20^\circ\text{C})}$	6	4	4	4	4	4	3	4	4	4	4	
6	Endurance (125°C) (Applied ripple current)	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							
7	Shelf life (125°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	1.71
10 < CAP ≤ 100	0.80	1.00	1.23	1.53
100 < CAP ≤ 1000	0.80	1.00	1.16	1.38

Coefficient of Temperature for Ripple Current

Temperature(°C)	45	60	70	85	105	125
Coefficient	1.80	1.50	1.30	1.45	1.15	1.00

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Dimension: Φ DxL(mm)

Ripple Current: mA/rms at 120Hz, 125°C

DIMENSION & PERMISSIBLE RIPPLE CURRENT

V.DC μ F Contents	10V		16V		25V		35V		50V		63V	
	Φ DxL	mA	Φ DxL	mA	Φ DxL	mA	Φ DxL	mA	Φ DxL	mA	Φ DxL	mA
0.47									8X11.5	12	8X11.5	12
1									8X11.5	17	8X11.5	17
2.2									8X11.5	26	8X11.5	26
3.3									8X11.5	32	8X11.5	32
4.7									8X11.5	38	8X11.5	38
10									8X11.5	56	8X11.5	56
22							8X11.5	75	10X12.5	99	10X12.5	99
33					8X11.5	92	10X12.5	108	10X16	133	10X16	133
47			8X11.5	100	10X12.5	129	10X16	142	10X16	159	10X20	173
100	10X12.5	154	10X16	190	10X16	208	10X20	225	12.5X20	279	12.5X20	279
220	10X16	252	10X20	305	12.5X20	371	12.5X25	403	16X20	459		
330	10X16	308	12.5X20	414	12.5X25	493	16X20	503				
470	10X20	399	12.5X25	537	16X20	601						
1000	16X20	715										

V.DC μ F Contents	100V		160V		200V		250V		350V	
	Φ DxL	mA	Φ DxL	mA	Φ DxL	mA	Φ DxL	mA	Φ DxL	mA
0.47	8X11.5	14								
1	8X11.5	21	8X11.5	30	8X11.5	35	8X11.5	41	8X11.5	45
2.2	8X11.5	31	8X11.5	37	10X12.5	43	10X12.5	50	10X16	55
3.3	8X11.5	36	10X12.5	41	10X16	48	10X20	53	10X20	60
4.7	10X12.5	45	10X16	52	10X20	60	10X20	68	12.5X20	75
10	10X16	70	10X20	82	12.5X25	88	12.5X25	92	16X25	110
22	12.5X20	100	12.5X25	128	12.5X25	135	16X25	160	16X31.5	180
33	12.5X20	158	12.5X25	164	16X25	172	16X31.5	185	16X35.5	200
47	12.5X25	185	16X25	200	18X35.5	215	16X35.5	230	18X35.5	245
100	16X31.5	310	18X35.5	365	18X40	400				