

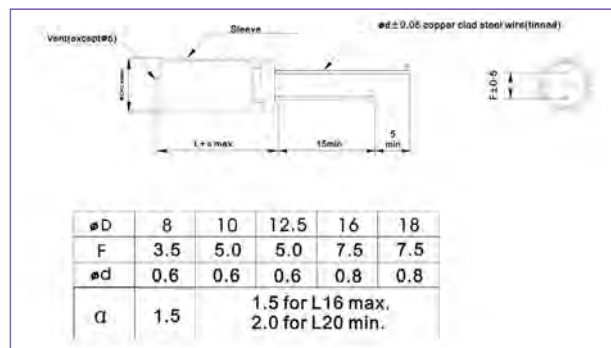
KZM Miniature Aluminum Electrolytic Capacitors

High Temperature Miniature Capacitors, Series KZM

Guaranteed 1000 hours at 125°C

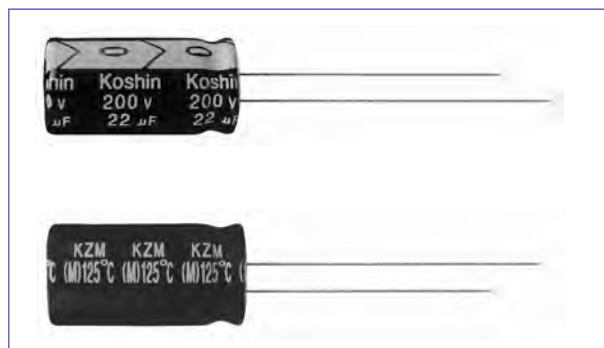
Outline Drawing

Unit: mm



Photo

ROSH



Marking color: black print on yellow sleeve

Specifications

No.	Item	Performance												
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 one minutes)						Less than 0.03CV or 3 whichever is larger (after one 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)	10	16	25	35	50	63	100	160	200	250	350	20°C
		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	120Hz
5	Low temperature characteristics	Rated voltage (V)	10	16	25	35	50	63	100	160	200	250	350	120Hz
		Impedance ratio (max)	$Z_{(-25°C)} / Z_{(+20°C)}$	3	2	2	2	2	2	2	2	2	2	
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

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	1.55	1.50	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 Contents μ F	10V		16V		25V		35V		50V		63V	
	Φ D \times L	mA	Φ D \times L	mA	Φ D \times L	mA	Φ D \times L	mA	Φ D \times L	mA	Φ D \times L	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 Contents μ F	100V		160V		200V		250V		350V	
	Φ D \times L	mA	Φ D \times L	mA	Φ D \times L	mA	Φ D \times L	mA	Φ D \times L	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				

Standard Type