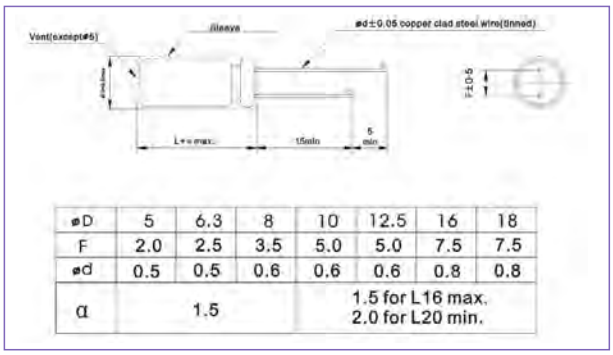
Koshin

KRB Miniature Aluminum Electrolytic Capacitors

85℃ Non-polar Miniature Capacitors, Series KRB.

Guaranteed 2000 hours at 85℃

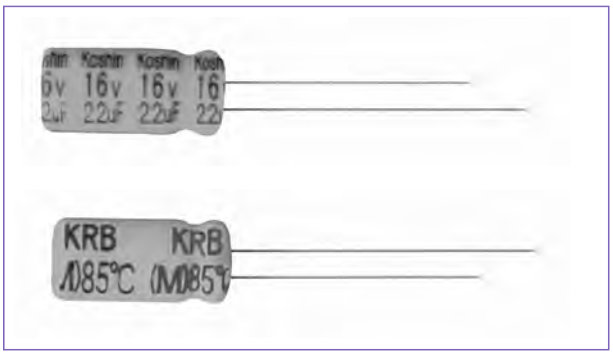
Outline Drawing Unit: mm



øD	5	6.3	8	10	12.5	16	18
F	2.0	2.5	3.5	5.0	5.0	7.5	7.5
ød	0.5	0.5	0.6	0.6	0.6	0.8	0.8
α	1.5			1.5 for L16 max. 2.0 for L20 min.			

Photo

ROSH



Marking color: black print on yellow sleeve

Specifications

No.	Item	Performance											
1	Temperature range (℃)	-40 to +85											
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℃											
3	Capacitance tolerance (%)	ã20 (20℃ ,120Hz)											
4	Tangent of the loss angle (Tan δ)	Rated voltage (V)		6.3	10	16	25	35	50	63	100	160-250	20℃ 120Hz
		Tan δ (max)		0.25	0.25	0.20	0.15	0.15	0.13	0.10	0.09	0.15	
		0.02 is added to each 1000uF increase over 1000uF.											
5	Low temperature characteristics	Rated voltage (V)		6.3	10	16	25	35	50	63	100	160-250	120Hz
		Impedance ratio (max)	$Z_{(-25℃)}/Z_{(+20℃)}$	4	3	2	2	2	2	2	2	2	
			$Z_{(-40℃)}/Z_{(+20℃)}$	8	6	4	4	3	3	3	3	4	
		0.5 for □25℃ ,1 for □40℃ are added to each 1000uF increase over 1000uF.											
6	Endurance (85℃) (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 ã20% of initial value									
		Tangent of the loss angle		200% or less of the initial specified value									
7	Shelf life (85℃)	Test time		1000hours									
		Leakage current		The initial specified value or less									
		Percentage of capacitance change		Within ã20% 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) / Capacitance (μF)	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(℃)	45	60	70	85
Coefficient	1.80	1.50	1.30	1.00

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Dimension: ΦDXL(mm)
Ripple Current: mA/rms at 120Hz,85℃

DIMENSION & PERMISSIBLE RIPPLE CURRENT

V.DC / Contents / μF	6.3V		10V		16V		25V		35V		50V		63V		100V	
	ΦD×L	mA	ΦD×L	mA	ΦD×L	mA	ΦD×L	mA	ΦD×L	mA	ΦD×L	mA	ΦD×L	mA	ΦD×L	mA
0.1											5X11	4	5X11	5	5X11	5
0.22											5X11	7	5X11	8	5X11	8
0.33											5X11	8	5X11	10	5X11	10
0.47											5X11	10	5X11	12	5X11	12
1											5X11	15	5X11	18	6.3X11	23
2.2											5X11	23	5X11	25	6.3X11	26
3.3											5X11	28	5X11	31	6.3X11	32
4.7											5X11	33	6.3X11	37	8X11.5	44
10					5X11	40	5X11	42	6.3X11	46	8X11.5	55	8X11.5	61	8X11.5	66
22	5X11	50	5X11	56	5X11	59	6.3X11	63	8X11.5	76	8X11.5	82	10X12.5	108	10X16	118
33	5X11	62	5X11	69	6.3X11	73	6.3X11	78	8X11.5	94	8X11.5	104	10X16	137	10X20	152
47	5X11	74	6.3X11	83	6.3X11	88	8X11.5	105	8X11.5	115	10X16	150	10X20	172	12.5X20	193
100	6.3X11	108	8X11.5	137	8X11.5	149	10X12.5	182	10X16	202	10X20	229	12.5X20	267	16X25	315
220	8X11.5	181	10X12.5	242	10X16	265	10X16	294	12.5X20	335	12.5X25	378	16X25	443	16X35.5	498
330	8X11.5	236	10X16	308	10X20	340	12.5X20	384	12.5X25	429	16X25	496	16X31.5	653		
470	10X16	329	10X20	385	12.5X20	432	12.5X25	479	16X25	548	16X31.5	614	18X35.5	787		
1000	10X20	502	12.5X20	598	12.5X25	659	16X31.5	775	16X35.5	852	18X40	1048				
2200	12.5X25	829	16X25	992	16X35.5	1114	18X40	1347								

V.DC / Contents / μF	160V		200V		250V	
	ΦD×L	mA	ΦD×L	mA	ΦD×L	mA
0.47	5X11	10	6.3X11	10	6.3X11	12
1	6.3X11	14	8X11.5	16	8X11.5	16
2.2	8X11.5	23	8X11.5	28	10X12.5	32
3.3	8X11.5	33	10X12.5	33	10X16	46
4.7	10X12.5	39	10X16	46	10X20	62
10	10X16	75	10X20	83	10X20	99
22	12.5X20	146	12.5X20	146	12.5X25	172
33	12.5X20	179	12.5X25	197	16X25	211
47	12.5X25	235				