

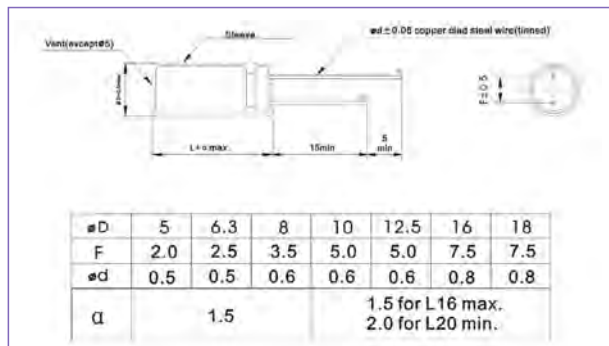
KRL Miniature Aluminum Electrolytic Capacitors

85°C Low Leakage Current Miniature Capacitors, Series KRL.

Guaranteed 2000 hours at 85°C

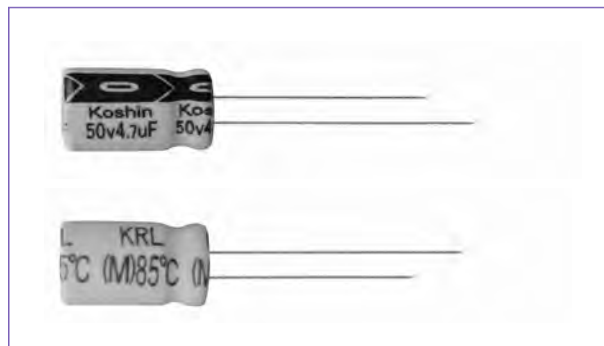
Outline Drawing

Unit: mm



Photo

ROSH



Marking color: black print on yellow sleeve

Specifications

No.	Item	Performance									
1	Temperature range (°C)	-40 to +85									
2	Leakage current (μA)	Less than 0.002CV or 0.3 whichever is larger(after two 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	20°C, 120Hz
		Tan δ (max)	0.20	0.17	0.13	0.10	0.09	0.08	0.08	0.08	
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	120Hz
		Impedance ratio (max)	Z _(-25°C) /Z _(+20°C)	4	3	2	2	2	2	2	
			Z _(-40°C) /Z _(+20°C)	8	6	4	4	4	3	3	
6	Endurance (85°C) (Applied ripple current)	Test time	2000hours								
		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 (85°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 ≤ 100	0.70	1.00	1.35	1.55	2.00
100 < CAP ≤ 1000	0.83	1.00	1.23	1.32	1.50
1000 < CAP	0.90	1.00	1.12	1.10	1.15

Coefficient of Temperature for Ripple Current

Temperature(°C)	45	60	70	85
Coefficient	1.80	1.50	1.30	1.00

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Dimension: Φ DXL(mm)

Ripple Current: mA/rms at 120Hz, 85°C

DIMENSION & PERMISSIBLE RIPPLE CURRENT

V.DC Contents μ F	6.3V		10V		16V		25V		35V		50V		63V		100V	
	Φ D×L	mA	Φ D×L	mA	Φ D×L	mA	Φ D×L	mA	Φ D×L	mA	Φ D×L	mA	Φ D×L	mA	Φ D×L	mA
0.1											5X11	1.3			5X11	2.6
0.22											5X11	2.9			5X11	5.8
0.33											5X11	4.4			5X11	8.8
0.47											5X11	7			5X11	12
1											5X11	13			5X11	22
2.2											5X11	29			5X11	33
3.3											5X11	35			5X11	40
4.7							5X11	31	5X11	40	5X11	42	5X11	45	5X11	48
10					5X11	44	5X11	54	5X11	58	5X11	65	5X11	70	6.3X11	80
22			5X11	59	5X11	75	5X11	80	5X11	87	5X11	95	6.3X11	115	8X11.5	135
33	5X11	55	5X11	84	5X11	90	5X11	97	5X11	105	6.3X11	125	6.3X11	140	10X12.5	195
47	5X11	79	5X11	100	5X11	110	5X11	115	6.3X11	145	6.3X11	150	8X11.5	190	10X16	255
100	5X11	130	5X11	145	6.3X11	180	6.3X11	190	8X11.5	240	8X11.5	255	10X12.5	320	12.5X20	450
220	6.3X11	230	6.3X11	250	8X11.5	300	8X11.5	320	10X12.5	420	10X16	490	10X20	565	16X25	810
330	6.3X11	280	8X11.5	350	8X11.5	370	10X12.5	470	10X16	570	10X20	650	12.5X20	765	16X25	990
470	8X11.5	380	8X11.5	415	10X12.5	520	10X16	620	10X20	740	12.5X20	860	12.5X25	990	16X31.5	1250
1000	10X12.5	650	10X16	790	10X20	910	12.5X20	1090	12.5X25	1300	16X25	1530	16X31.5	1700		
2200	12.5X20	1150	12.5X20	1240	12.5X25	1420	16X25	1660	16X31.5	1890	18X35.5	2160				
3300	12.5X20	1380	12.5X25	1590	16X25	1840	16X31.5	2070	18X35.5	2340						
4700	16X25	1880	16X25	1980	16X31.5	2260	18X35.5	2520	18X40	2690						

Special Type