Koshin

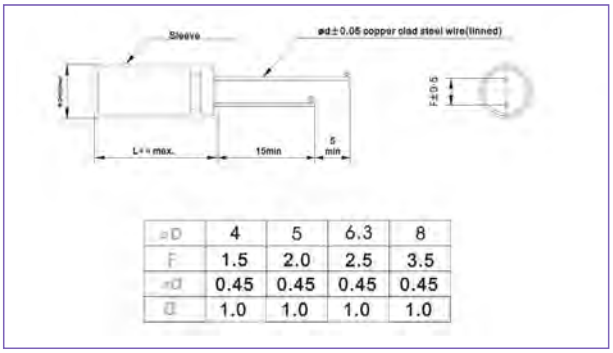
KRN Miniature Aluminum Electrolytic Capacitors

7mm L, Non-polar Microminiature Capacitors, Series KRN.

Diameter from Φ4 to Φ8 and height of 7mm
Guaranteed 1000 hours at 85℃

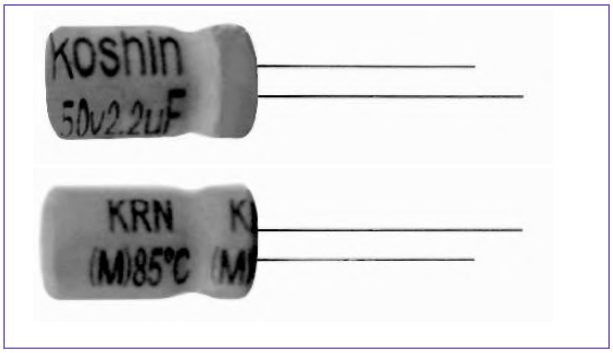
ROSH

Outline Drawing Unit: mm



⌀D	4	5	6.3	8
F	1.5	2.0	2.5	3.5
ød	0.45	0.45	0.45	0.45
d	1.0	1.0	1.0	1.0

Photo



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)	4	6.3	10	16	25	35	50	63
		Tan δ (max)	0.35	0.24	0.20	0.16	0.15	0.14	0.12	0.09
		20℃ ,120Hz								
5	Low temperature characteristics	Rated voltage(V)	4	6.3	10	16	25	35	50	63
		Impedance ratio (max) $Z_{(-25℃)}/Z_{(+20℃)}$	7	4	3	2	2	2	2	2
		$Z_{(-40℃)}/Z_{(+20℃)}$	15	8	6	4	4	3	3	3
		120Hz								
6	Endurance (85℃) (Applied ripple current)	Test time	1000hours (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	500hours							
		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) / Rated voltage (v)	50•60	120	1K	10K•100K
4 to 16	0.80	1.00	1.10	1.20
25 to 35	0.80	1.00	1.50	1.70
50 to 63	0.80	1.00	1.60	1.90

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 & PERMISSIBLE RIPPLE CURRENT

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

V.DC / Contents / μF	4V		6.3V		10V		16V		25V		35V		50V		63V	
	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													4X7	2.1	4X7	2.6
0.22													4X7	4.5	4X7	5.0
0.33													4X7	5.6	4X7	6.1
0.47													4X7	6.6	4X7	7.3
1													4X7	9.7	4X7	10
2.2											4X7	13	4X7	14	5X7	16
3.3									4X7	15	5X7	16	5X7	18	6.3X7	20
4.7							4X7	18	5X7	18	5X7	20	6.3X7	22	8X7	24
10					4X7	23	5X7	27	6.3X7	28	8X7	30				
22			5X7	40	5X7	40	6.3X7	45	8X7	52						
33	5X7	40	5X7	40	6.3X7	45	8X7	52								
47	6.3X7	45	6.3X7	49	8X7	55										
100	8X7	66														