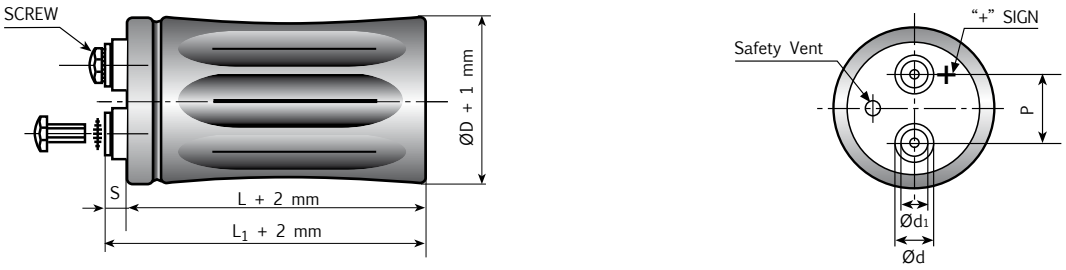
K61 TYPE -40°C +85°C 25000H

RoHS Compliant

- Surge-proof capacitor in aluminium can with insulation sleeve.
- Extremely linear characteristic between 20Hz to 22KHz
- Design optimized for Audio application.
- No effects of sound compression
- Precisely and realistic dynamic of sound.

APPLICATIONS

Designed for professional application. Linear amplifiers, audio filtering.



STUD style

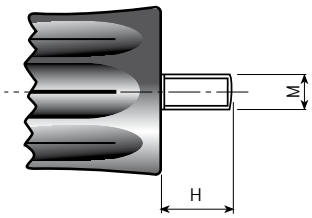


Diagram of dimensions (unit=mm)
Insert and screw threads: Metric (mm), UNF (inches)

ØD	d	d1	P	STUD M	STUD H	INSERT	SCREW	L_1 -L[-1+3]	S[-1+1]	INSERT STYLE CODE
35	11	7.9	12.7	M8	12	M5	5MA x 9.5	2.5	5	O
51	18.5	13	22.7	M12	16	M5	5MA x 9.5	2.5	5	H
63	18.5	13	28.6	M12	16	M5	5MA x 9.5	2.5	5	H
63	17.3	17.3	28.6	M12	16	UNF 1/4-28 Low Post	1/4-28 x 3/8"	3	4	W
63	17.3	17.3	28.6	M12	16	UNF 1/4-28 High Post	1/4-28 x 1/2"	6	7	R
63	7.9	7.9	28.6	M12	16	UNF 10-32 Low Post	10-32 x 1/4"	2	2.5	Z
63	12	7.9	28.6	M12	16	UNF 10-32 High Post	10-32 x 3/8"	6	7	U
76	18.5	13	31.8	M12	16	M5	5MA x 9.5	2.5	5	H
76	18.5	13	31.8	M12	16	M5	5MA x 9.5	2.5	7	L
76	23.2	17.7	31.8	M12	16	M6	6MA x 10	4.5	7	6
76	17.3	17.3	31.8	M12	16	UNF 1/4-28 Low Post	1/4-28 x 3/8"	3	4	W
76	17.3	17.3	31.8	M12	16	UNF 1/4-28 High Post	1/4-28 x 1/2"	6	7	R
76	7.9	7.9	31.8	M12	16	UNF 10-32 Low Post	10-32 x 1/4"	2	2.5	Z
76	12	7.9	31.8	M12	16	UNF 10-32 High Post	10-32 x 3/8"	6	7	U
90	23.2	17.7	31.8	M12	16	M6	6MA x 10	4.5	7	H

Kendeil™

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SPECIFICATIONS

Temperature Range	Operating: -40°C +85°C [Environmental classification 40/85/56 IEC-68] Storage : Preferably below +25°C, not exceeding +40°C
Rated Voltage Range (V_r)	from 63V to 100V DC
Surge Voltage (V_p)	V_p = 1.10 V_r
Rated Capacitance Range	from 6800 µF to 47000 µF
Capacitance Tolerance	±20% at 100 Hz, 20°C [M class IEC-62] on request: -10% +30% at 100 Hz, 20°C [Q class IEC-62]
Leakage Current (I_L) (mA, 5 min, 20°C)	max I_L= 0.006 C_r V_r + 4 µA Kendeil product limit: I_L= 0.003 C_r V_r At 85°C max I_L = 0.04 C_r V_r µA
Ripple current (I_r)	Refer to table at 85°C and 100Hz. : FREQUENCY 50Hz 100Hz 500 Hz 1000Hz >10kHz MULTIPLIER 0.85 1.0 1.2 1.25 1.3 AMBIENT TEMP 35°C 45°C 55°C 65°C 75°C 85°C 95°C MULTIPLIER 2.2 2.1 1.8 1.6 1.4 1.0 0.5 Maximum internal temperature 98°C Due to the current load capability of the contact elements, the following limits must not be exceeded: CAPACITOR DIAMETER 51mm 63mm 76mm 90mm Maximum current 30A 40A 50A 70A
Insulation Resistance	At 100V DC for 1 min is >100 MΩ across insulating sleeve and terminals.
Vibration Resistance	Frequency range: 10 Hz to 55 Hz, amplitude 0.75 mm Capacitor length ≤ 143 : max acceleration 10g for 3x2 h Capacitor length > 143 : max acceleration 5g for 3x0.5 h
Life test	After 4,000 hours application of rated voltage at 85°C capacitors meet characteristics aside Cap change ≤ 10% tan δ ≤ 130% Leakage current (I_L) < initial limit Impedance (Z) ≤ 130%
Shelf life	After leaving capacitors under no load for 2000 hours at 85°C, when restored at 20°C meet specifications aside Cap change ≤ ±15% tan δ ≤ 150% Leakage current (I_L) < initial limit
Useful life (Vn, Temp rated I ripple applied)	250000 h at 40°C 25000 h at 85°C
Failure percentage Failure rate I ripple applied)	≤ 1% (during useful life) ≤ 25 fit (25 10^{-9}/h)
Self inductance	Approx. 20 nH
Reference standards	CECC 30.300 IEC 60384-4 LONG LIFE GRADE

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K61 TYPE STANDARD RATINGS

Cap µF	Ø x L mm	Tan δ MAX 100 Hz 20°C	ESR TYP m Ω 100 Hz 20°C	Z TYP m Ω 10 kHz 20°C	Ir a.c. A max 100 Hz 85°C	PART NUMBER stud and insert style excluded	RATED VOLTAGE VDC
10000	51x79	0.10	11	9	14.6	K61063103__M0G079	63V
14000	51x105	0.10	9	8	18.7	K61063143__M0G105	
22000	63x105	0.11	6	6	28.7	K61063223__M0H105	
33000	76x105	0.12	5.5	5.5	31.2	K61063333__M0J105	
47000	76x143	0.17	4	4	41.3	K61063473__M0J143	

Cap µF	Ø x L mm	Tan δ MAX 100 Hz 20°C	ESR TYP m Ω 100 Hz 20°C	Z TYP m Ω 10 kHz 20°C	Ir a.c. A max 100 Hz 85°C	PART NUMBER stud and insert style excluded	RATED VOLTAGE VDC
8200	51x79	0.10	12	8	14.4	K61080822__M0G079	80V
10000	51x105	0.10	10	8	17.9	K61080103__M0G105	
18000	63x105	0.11	6	6	28.9	K61080183__M0H105	
28000	76x105	0.15	6	6	30.2	K61080283__M0J105	
42000	76x143	0.17	4	4	41.3	K61080423__M0J143	

Cap µF	Ø x L mm	Tan δ MAX 100 Hz 20°C	ESR TYP m Ω 100 Hz 20°C	Z TYP m Ω 10 kHz 20°C	Ir a.c. A max 100 Hz 85°C	PART NUMBER stud and insert style excluded	RATED VOLTAGE VDC
6800	51x79	0.10	14	12	14.1	K61100682__M0G079	100V
8200	51x105	0.10	11	8	17.9	K61100822__M0G105	
10000	51x105	0.10	10	8	17.9	K61100103__M0G105	
12000	63x105	0.10	7	7	28.0	K61100123__M0H105	
15000	63x105	0.10	6	6	28.7	K61100153__M0H105	
22000	76x105	0.11	6	6	30.2	K61100223__M0J105	
33000	76x143	0.15	5	5	41.0	K61100333__M0J143	

PLEASE TO CONTACT OUR TECHNICAL SERVICE FOR MORE INFORMATION OR SPEC-IN ANALYSIS.