

- Surge-proof capacitor in aluminium can with insulation sleeve.
- Heavy charge/discharge duty.
- To be mounted with ring clips or with threaded stud.

**APPLICATIONS**

Extreme application welding. Strobe applications.

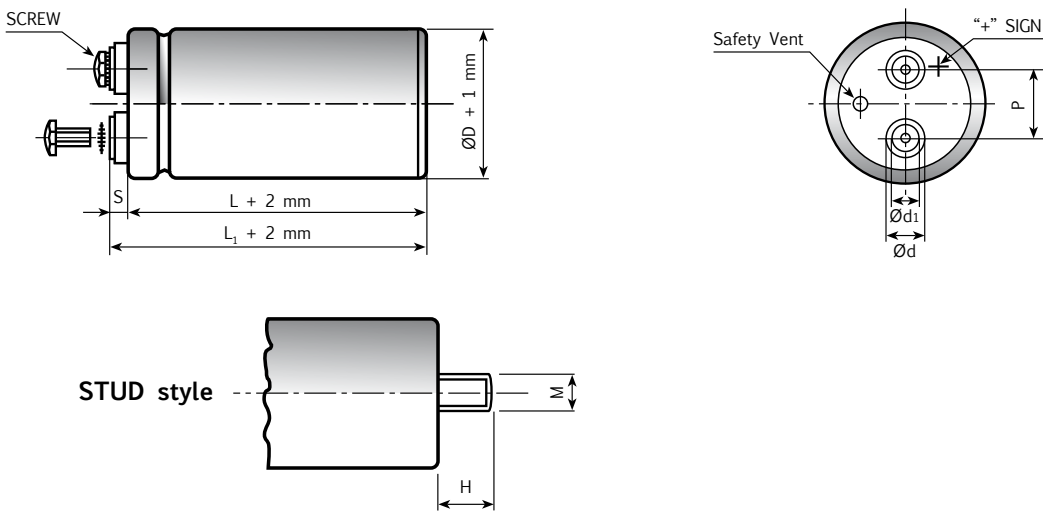


Diagram of dimensions (unit=mm)  
Insert and screw threads: Metric (mm), UNF (inches)

ØD	d	d1	P	STUD M	H	INSERT	SCREW	L1	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	5	O
51	18.5	13	22.7	M12	16	M5	5MA x 9.5	2.5	5	5	H
63	18.5	13	28.6	M12	16	M5	5MA x 9.5	2.5	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	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	7	R
63	7.9	7.9	28.6	M12	16	UNF 10-32 Low Post	10-32 x 1/4"	2	2.5	2.5	Z
63	12	7.9	28.6	M12	16	UNF 10-32 High Post	10-32 x 3/8"	6	7	7	U
76	18.5	13	31.8	M12	16	M5	5MA x 9.5	2.5	5	5	H
76	18.5	13	31.8	M12	16	M5	5MA x 9.5	2.5	7	7	L
76	23.2	17.7	31.8	M12	16	M6	6MA x 10	4.5	7	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	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	7	R
76	7.9	7.9	31.8	M12	16	UNF 10-32 Low Post	10-32 x 1/4"	2	2.5	2.5	Z
76	12	7.9	31.8	M12	16	UNF 10-32 High Post	10-32 x 3/8"	6	7	7	U
90	23.2	17.7	31.8	M12	16	M6	6MA x 10	4.5	7	7	H

## SPECIFICATIONS

<b>Temperature Range</b>	Operating: -20°C +70°C Storage : Preferably below +25°C, not exceeding +40°C
<b>Rated Voltage Range (V<sub>r</sub>)</b>	from 400V to 500V DC
<b>Surge Voltage (V<sub>p</sub>)</b>	V <sub>p</sub> = 1.05 V <sub>r</sub> (V <sub>r</sub> > = 475V DC) - V <sub>p</sub> = 1.10 V <sub>r</sub> (V <sub>r</sub> > 250V DC)
<b>Rated Capacitance Range</b>	from 560 µF to 3300 µF
<b>Capacitance Tolerance</b>	±20% at 100 Hz, 20°C [M class IEC-62] on request: -10% +30% at 100 Hz, 20°C [Q class IEC-62]
<b>Leakage Current (I<sub>L</sub>)</b> (5 min, 20°C)	max I <sub>L</sub> = 0.006 C <sub>r</sub> V <sub>r</sub> + 4 µA
<b>Insulation Resistance</b>	At 100V DC for 1 min is >100 M Ω across insulating sleeve and terminals.
<b>Vibration Resistance</b>	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
<b>Discharge Life</b>	Test conditions: 10000 times at room temperatures (5-35°C) Charge and Discharge cycles: 30 sec  Cap change ≤ 10% tan δ ≤ 150% Leakage current (I <sub>L</sub> ) < 150% of initial limit Impedance (Z) ≤ 200%
<b>Shelf life</b>	After leaving capacitors under no load for 500 hours at 55°C when restored at 20°C meet specifications aside Cap change ≤ ±15% tan δ ≤ 150% Leakage current (I <sub>L</sub> ) < initial limit
<b>Failure percentage</b> <b>Failure rate</b>	≤ 1% (during useful life) ≤ 33 fit (33 10 <sup>-9</sup> /h) (V <sub>r</sub> > 160V DC)
<b>Self inductance</b>	Approx. 20 nH
<b>Reference standards</b>	CECC 30.300 IEC 60384-4 LONG LIFE GRADE

## K03 TYPE STANDARD RATINGS

Cap $\mu$ F	$\varnothing$ x L mm	Tan $\delta$ MAX 100 Hz 20°C	PART NUMBER stud and insert style excluded
680	51x105	0.10	K03400681__M0G105
820	51x105	0.10	K03400821__M0G105
1000	63x105	0.10	K03400102__M0H105
1200	63x105	0.10	K03400122__M0H105
1500	76x105	0.10	K03400152__M0J105
2200	76x143	0.10	K03400222__M0J143
3300	90x145	0.10	K03400332__M0L145

**RATED  
VOLTAGE  
VDC**

**400V**

Cap $\mu$ F	$\varnothing$ x L mm	Tan $\delta$ MAX 100 Hz 20°C	PART NUMBER stud and insert style excluded
680	51x105	0.10	K03450681__M0G105
820	51x105	0.10	K03450821__M0G105
1000	63x105	0.10	K03450102__M0H105
1200	63x105	0.10	K03450122__M0H105
1500	76x105	0.10	K03450152__M0J105
2200	76x143	0.10	K03450222__M0J143
3300	90x145	0.10	K03450332__M0L145

**RATED  
VOLTAGE  
VDC**

**450V**

Cap $\mu$ F	$\varnothing$ x L mm	Tan $\delta$ MAX 100 Hz 20°C	PART NUMBER stud and insert style excluded
560	51x105	0.15	K03475561__M0G105
680	51x105	0.15	K03475681__M0G105
820	51x105	0.15	K03475821__M0G105
1000	63x105	0.15	K03475102__M0H105
1000	63x105	0.15	K03475102__M0H105
1000	76x105	0.15	K03475102__M0J105
1000	76x143	0.15	K03475102__M0J143
1500	76x143	0.15	K03475152__M0J143
2200	90x145	0.15	K03475222__M0L145

**RATED  
VOLTAGE  
VDC**

**475V**

Cap $\mu$ F	$\varnothing$ x L mm	Tan $\delta$ MAX 100 Hz 20°C	PART NUMBER stud and insert style excluded
560	51x105	0.15	K03500581__M0G105
680	63x105	0.15	K03500681__M0H105
820	63x105	0.15	K03500821__M0H105
1000	63x105	0.15	K03500102__M0H105
1000	63x105	0.15	K03500102__M0H105
1000	63x143	0.15	K03500102__M0H143
1500	76x143	0.15	K03500152__M0J143
2200	90x145	0.15	K03500222__M0L145

**RATED  
VOLTAGE  
VDC**

**500V**