

- 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.

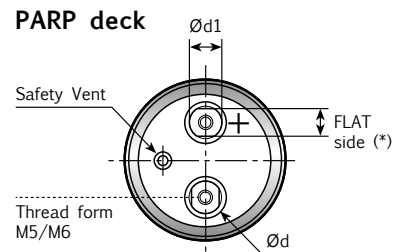
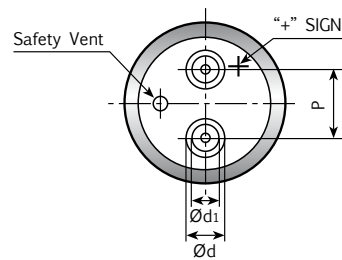
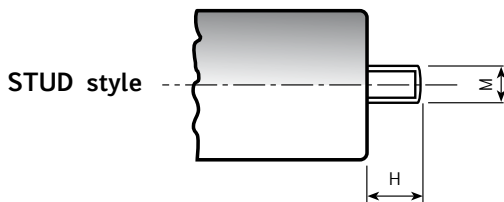
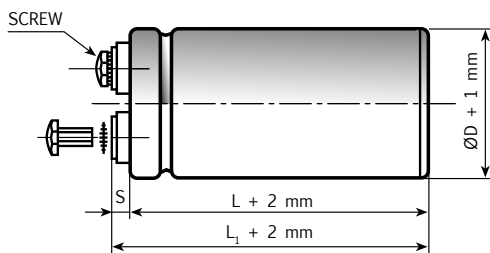


Diagram of dimensions (unit=mm)
Insert and screw threads: Metric (mm), UNF (inches)

ØD	d	d1	P	STUD		INSERT	SCREW	L1 -L[-1+3]	S[-1+1]	INSERT STYLE CODE
				M	H					
35	11	7.9	12.7	M8	12	M5	5MA x 9.5	2.5	5	0
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
51	13	13 (10)*	22.7	M12	16	PARP M5	5MA x 9.5	6	7	K
63	15	15 (13)*	28.6	M12	16	PARP M5	5MA x 9.5	6	7	K
76	19	15 (13)*	31.8	M12	16	PARP M5	5MA x 9.5	6	7	K
76	19	15 (13)*	31.8	M12	16	PARP M6	6MA x 10	6	7	Q
90	19	15 (13)*	31.8	M12	16	PARP M6	6MA x 10	6	7	Q

Note: (*) quote on the PARP deck of the flat side (PARP = Protection Against Reverse Polarity).

SPECIFICATIONS

Temperature Range	Operating: -20°C +70°C Storage : Preferably below +25°C, not exceeding +40°C
Rated Voltage Range (V_r)	from 400V to 500V DC
Surge Voltage (V_p)	V _p = 1.05 V _r (V _r > = 475V DC) - V _p = 1.10 V _r (V _r > 250V DC)
Rated Capacitance Range	from 560 µF to 3300 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) (5 min, 20°C)	max I _L = 0.006 C _r V _r + 4 µA
Insulation Resistance	At 100V DC for 1 min is >100 M Ω 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
Withstand voltage (between terminals bundled and plate)	2500 VAC for 1 min
Discharge Life	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 _L) < 150% of initial limit Impedance (Z) ≤ 200%
Shelf life	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 _L) < initial limit
Failure percentage Failure rate	≤ 1% (during useful life) ≤ 33 fit (33 10 ⁻⁹ /h) (V _r > 160V DC)
Self inductance	Approx. 20 nH
Damp heat test (V _n applied, 2000 hours, 85% RH)	Stable electrical parameters in humidity ambient condition 85°C
Electrolyte	All the capacitors of this series have self-extinguishing electrolyte in accordance with IEC EN 60695-11-10
Reference standards	CECC 30.300 IEC 60384-4 LONG LIFE GRADE

K03 TYPE STANDARD RATINGS

Cap μ F	\varnothing x L mm	Tan δ 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 μ F	\varnothing x L mm	Tan δ 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 μ F	\varnothing x L mm	Tan δ 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

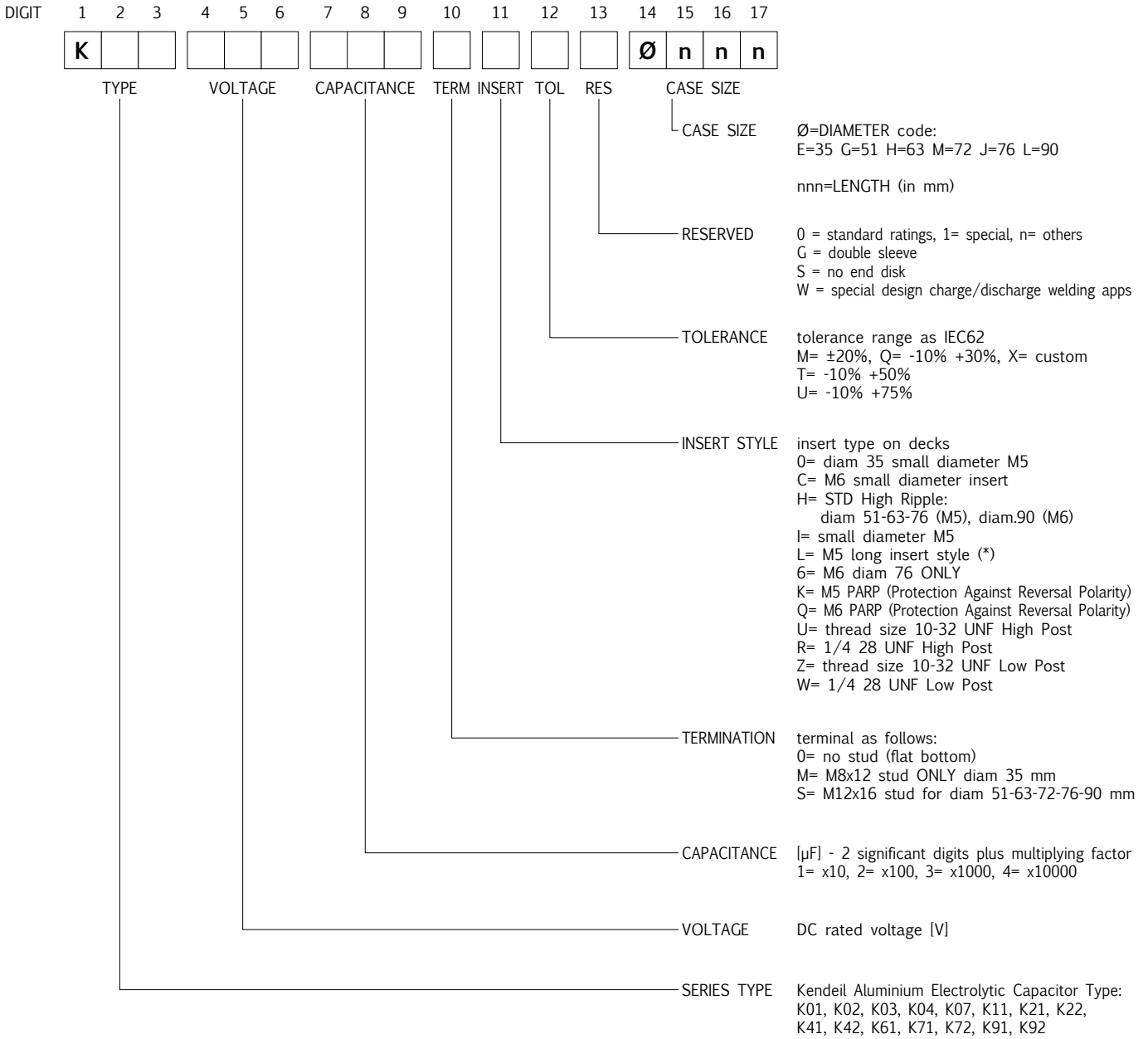
Cap μ F	\varnothing x L mm	Tan δ MAX 100 Hz 20°C	PART NUMBER stud and insert style excluded
560	51x105	0.15	K03500581__M0G105
680	63x105	0.15	K03500681__M0H105
820	63x105	0.15	K03500821__M0H105
1000	63x105	0.15	K03500102__M0H105
1000	63x105	0.15	K03500102__M0H105
1000	63x143	0.15	K03500102__M0H143
1500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

**RATED
VOLTAGE
VDC**

500V

PART NUMBER SYSTEM FOR SCREW TYPE CAPACITORS

New PART-NUMBER CODE in use since Sep 2010. Total length is 17 digits.
Please see examples below and have a reference code from the standard ratings capacitors pages.



EXAMPLES

K	0	1	1	0	0	2	2	3	0	H	M	0	H	1	0	5	K01 100V 22000µF, Hi ripple, -20%+20%, 63x105
K	0	1	0	6	3	2	2	3	S	H	Q	0	G	1	0	5	K01 63V 22000µF, stud M12x16, Hi rip. -10%+30%, 51x105
K	0	2	0	4	0	1	0	4	0	H	M	0	J	1	4	3	K02 40V 100000µF, Hi ripple, -20%+20%, 76x143

Specifications subject to change without notice

(*) Note for INSERT STYLE digit_11

M5 long insert style dedicated to not insulated bus bar (+2 mm height versus STD High Ripple code)