

- 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.

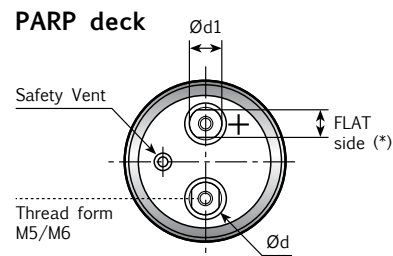
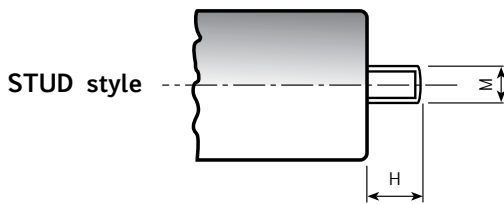
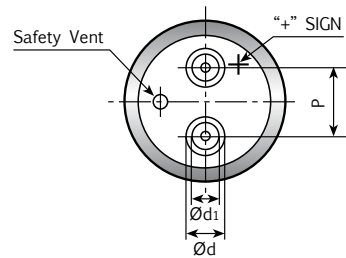
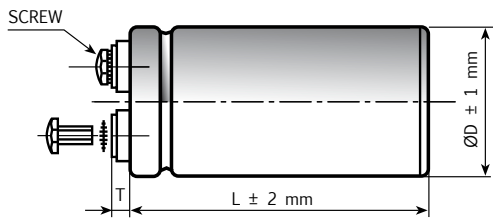


Diagram of dimensions (unit=mm) - Insert and screw threads: Metric (mm), UNF (inches)

ØD	d ±0.3	d1 ±0.3	P ±0.5	T ±2.0	STUD		INSERT	SCREW	INSERT STYLE CODE
					M	H			
35	11.6	7.9	12.7	6.5	M8	12	M5	5MA x 9.5	0
51	18.2	13	22.2	5	M12	16	M5	5MA x 9.5	H
63	18.2	13	28.5	5	M12	16	M5	5MA x 9.5	H
76	18.2	13	31.8	4.5	M12	16	M5	5MA x 9.5	H
76	18.2	13	31.8	6.5	M12	16	M5 long	5MA x 9.5	L
76	23.2	17.7	31.8	5	M12	16	M6	6MA x 10	6
90	23.2	17.7	31.8	5	M12	16	M6	6MA x 10	H
51	13	13(10)*	22.2	5	M12	16	PARP M5	5MA x 9.5	K
63	13	13(10)*	28.5	5	M12	16	PARP M5	5MA x 9.5	B
63	19	15(13)*	28.5	6	M12	16	PARP M5	5MA x 9.5	K
76	19	15(13)*	31.8	6	M12	16	PARP M5	5MA x 9.5	K
76	19	15(13)*	31.8	6	M12	16	PARP M6	6MA x 10	Q
90	19	15(13)*	31.8	6	M12	16	PARP M6	6MA x 10	Q
35	11.6	7.9	12.7	6.5	M12	16	UNF 10-32 High Post	10-32 x 3/8"	U
63	17.3	17.3	28.5	2.5	M12	16	UNF 1/4-28 Low Post	1/4-28 x 3/8"	W
63	17.3	17.3	28.5	6	M12	16	UNF 1/4-28 High Post	1/4-28 x 1/2"	R
63	7.9	7.9	28.5	2	M12	16	UNF 10-32 Low Post	10-32 x 1/4"	Z
63	12	7.9	28.5	6.5	M12	16	UNF 10-32 High Post	10-32 x 3/8"	U
76	17.3	17.3	31.8	2.5	M12	16	UNF 1/4-28 Low Post	1/4-28 x 3/8"	W
76	17.3	17.3	31.8	6	M12	16	UNF 1/4-28 High Post	1/4-28 x 1/2"	R
76	7.9	7.9	31.8	2	M12	16	UNF 10-32 Low Post	10-32 x 1/4"	Z
76	12	7.9	31.8	6.5	M12	16	UNF 10-32 High Post	10-32 x 3/8"	U

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

K03 TYPE 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 Capacitor length ≤ 143 : max acceleration 0.75mm or 10g for 3x2 h Capacitor length > 143 : max acceleration 0.35mm or 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 µF	Ø x L mm	Tan δ MAX 100 Hz 20°C	PART NUMBER stud and insert style excluded
680	51x105	0.10	K03400681_MOG105
820	51x105	0.10	K03400821_MOG105
1000	63x105	0.10	K03400102_MOH105
1200	63x105	0.10	K03400122_MOH105
1500	76x105	0.10	K03400152_MOJ105
2200	76x143	0.10	K03400222_MOJ143
3300	90x145	0.10	K03400332_MOL145

**RATED
VOLTAGE
VDC**

400V

Cap µF	Ø x L mm	Tan δ MAX 100 Hz 20°C	PART NUMBER stud and insert style excluded
680	51x105	0.10	K03450681_MOG105
820	51x105	0.10	K03450821_MOG105
1000	63x105	0.10	K03450102_MOH105
1200	63x105	0.10	K03450122_MOH105
1500	76x105	0.10	K03450152_MOJ105
2200	76x143	0.10	K03450222_MOJ143
3300	90x145	0.10	K03450332_MOL145

**RATED
VOLTAGE
VDC**

450V

Cap µF	Ø x L mm	Tan δ MAX 100 Hz 20°C	PART NUMBER stud and insert style excluded
560	51x105	0.15	K03475561_MOG105
680	51x105	0.15	K03475681_MOG105
820	51x105	0.15	K03475821_MOG105
1000	63x105	0.15	K03475102_MOH105
1000	63x105	0.15	K03475102_MOH105
1000	76x105	0.15	K03475102_MOJ105
1000	76x143	0.15	K03475102_MOJ143
1500	76x143	0.15	K03475152_MOJ143
2200	90x145	0.15	K03475222_MOL145

**RATED
VOLTAGE
VDC**

475V

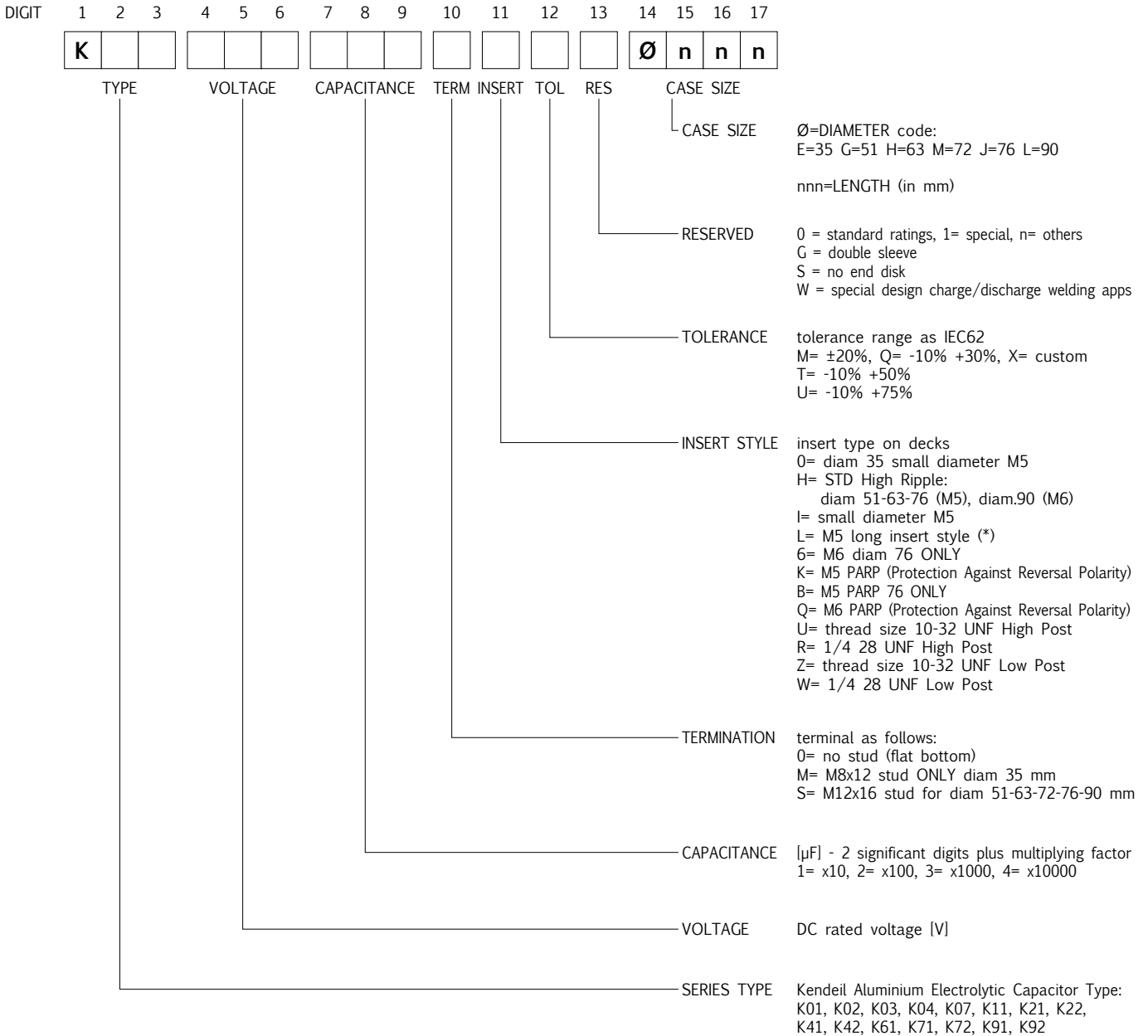
Cap µF	Ø x L mm	Tan δ MAX 100 Hz 20°C	PART NUMBER stud and insert style excluded
560	51x105	0.15	K03500581_MOG105
680	63x105	0.15	K03500681_MOH105
820	63x105	0.15	K03500821_MOH105
1000	63x105	0.15	K03500102_MOH105
1000	63x105	0.15	K03500102_MOH105
1000	63x143	0.15	K03500102_MOH143
1500	76x143	0.15	K03500152_MOJ143
2200	90x145	0.15	K03500222_MOL145

**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)