

**DC Link / Filtering Capacitor**

**SMS Range**

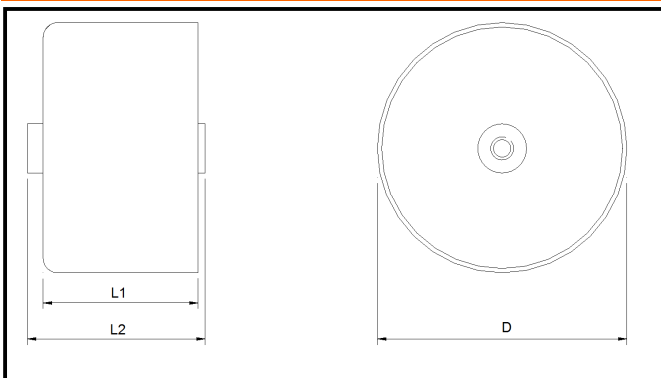
The SMS range of capacitors has been designed to offer electronic circuit designers of dc filtering applications an alternative to electrolytic capacitors.

Manufactured from a special metallised polypropylene film, the component offers a very high volumetric efficiency and current handling capability. The design also affords extremely low self inductance. The capacitors are housed in a UL 94-V0 rated plastic case.

**Technical Details**

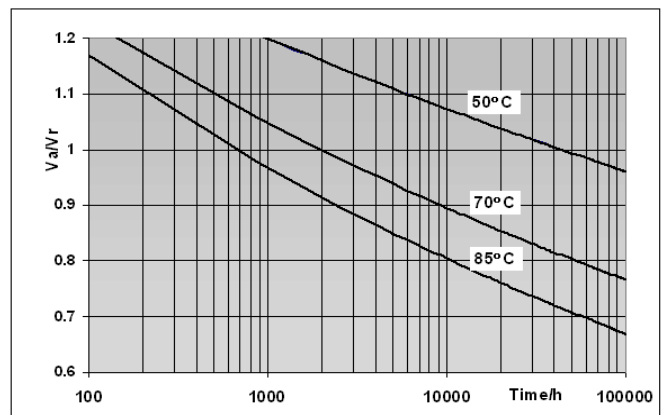
<b>Capacitance Range:</b>	22 – 240 $\mu$ F
<b>Tolerance:</b>	$\pm$ 10%
<b>Dissipation Factor:</b>	$\leq$ 0.001 at 1kHz & 20 $\pm$ 3 $^{\circ}$ C
<b>Insulation Resistance:</b>	$\geq$ 10,000 M $\Omega$ - $\mu$ F @ 400 Vdc & 20 $\pm$ 3 $^{\circ}$ C
<b>Rated Voltage:</b>	1100 – 1800 Vdc (see graph below for expected lifetime)
<b>Temperature Range:</b>	-55 to + 85 $^{\circ}$ C
<b>Environmental Category:</b>	55/85/56 to EN60068-1 (IEC68-1)
<b>Proof Test Voltage:</b>	1.25 x rated voltage for 30s. Not to be repeated.
<b>RMS Current Rating:</b>	Dependant on operating conditions, typically 20-80A. Please contact us for assistance with calculations
<b>Recommended Tightening Torque</b>	10Nm

**Component Outline**



Case	D ( $\pm$ 1mm)	L1 ( $\pm$ 1mm)	L2 ( $\pm$ 1mm)
A	70	54	62
B	80	54	62
C	90	54	62
D	70	69	77
E	80	69	77
F	90	69	77

**Life Expectancy**



**Quality and useful life**

The specification of quality data – which always refers to a fairly large number of components – does not constitute a guarantee of characteristics or properties in the legal sense. However, agreement on the specifications does not mean that the customer may not claim for replacement of individual defective components within the terms of delivery. We cannot, however, assume any further liability beyond the replacement of defective components. This applies in particular to any further consequences of component failure.

Furthermore, it must be taken into consideration that the figures stated for useful life and failure rate refer to the average production status and are therefore to be understood as mean values (statistical expectations) for a large number of delivery lots of identical capacitors. These figures are based on application experience and data obtained from preceding tests under normal conditions, or – for purposes of accelerated aging – more severe conditions.

**Components**

**CAPACITANCE VALUES IN  $\mu$ F**

Voltage	Case Size					
	A	B	C	D	E	F
700V	90	120	160	140	185	240
900V	60	80	100	90	120	155
1100V	35	50	65	50	75	100
1400V	20	28	35	30	40	55
1800V	13	18	25	20	28	38

**Ordering Details**

**SMS 35u K 1100V – A**

SMS Type 55u Capacitance in  $\mu$ F  
 K Tolerance 1100V Rated dc voltage  
 H Can size