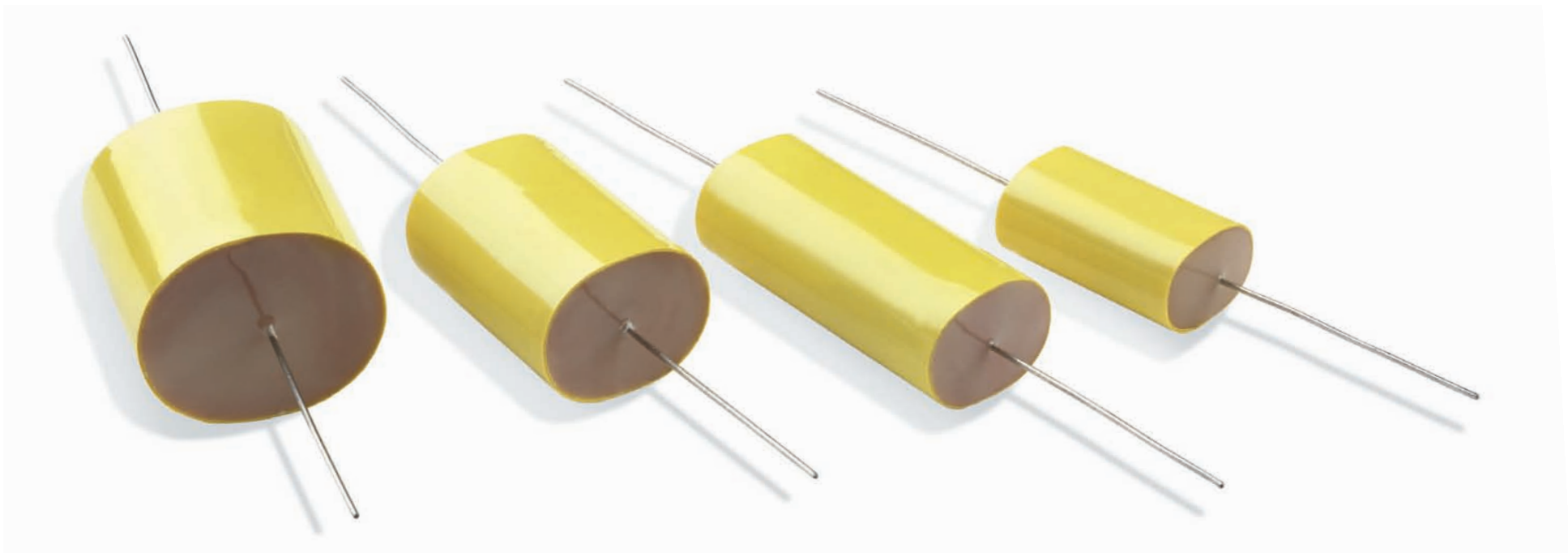
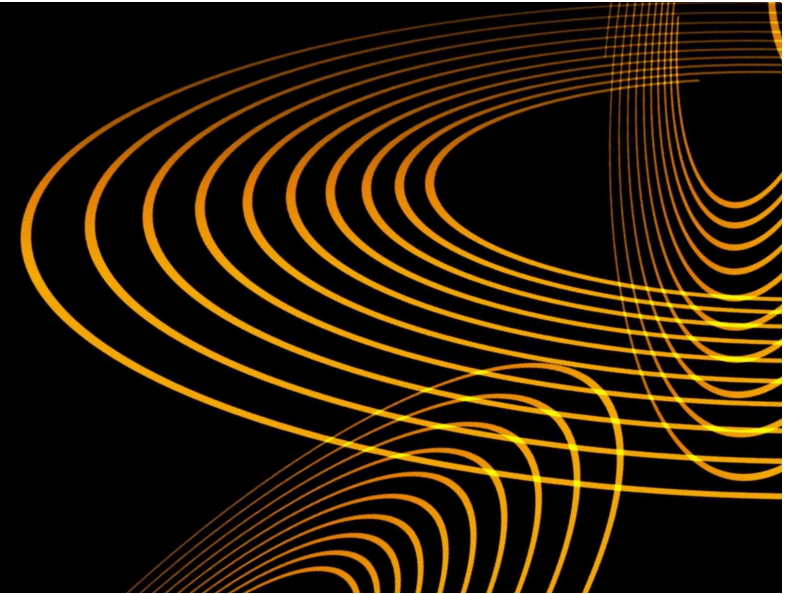


Axials : AC Voltage rated

AX : Polypropylene 250Vac rated

AP : Polypropylene 500Vac & 660Vac rated

Polypropylene axial wrap and end seal style capacitors offering low loss characteristics. Ideally suited to applications such as mains filters and where pulse performance is important.



Full text description

Both of these capacitors are constructed using the familiar ‘wrap and end seal’ method - wrapping the wound elements with heavy duty electrical tape which is wider than the element and sealing the cavities formed at each end with epoxy resin. This style of manufacture results in a cost effective and volumetrically efficient component of the highest quality.

The AX capacitors are suitable for pulse type circuits where high peak current handling capability is essential or at high frequency ac voltages where low loss is of prime consideration. The higher voltage handling capabilities of the AP range makes them ideally suited to applications such as mains filtering and higher voltage pulse applications.

Technical details

Capacitance range	AX : 100nF to 2 μ 2F AP : 10nF to 2 μ 2F	Temperature range	-55 to +100°C
Tolerance	\pm 10% standard. Others by request	Environmental category	55/100/56 to EN60068 - 1 (IEC68 - 1)
Dissipation factor	\leq 0.001 @ 1KHz & 20 \pm 3°C	Proof voltage test	1.5 x rated voltage for 30s. Not to be repeated
Insulation resistance	\geq 10 ⁴ M Ω - μ F (C>330nF), \geq 3 x 10 ⁴ M Ω (C \leq 330nF) @ 250Vac for AX and 500Vdc for AP and 20 \pm 3°C	Solderability	BS2011 : Part 2.1 T (IEC 68 - 2 - 20) Solder Globule Method of test Ta
Rated voltage	AX : 250Vac AP : 500 and 660Vac	Vibration	EN60068 - 2 - 6 (IEC 68 - 2 - 6) Test Fc 10 to 500 Hz 0.75mm or 98m/s ²
Pulse performance	See table. Ratings assume linear change to / from rated voltage	Bump	EN60068 - 2 - 29 (IEC 68 - 2 - 29) Test Eb 390m/s ² 1000 \pm 10 bumps

Size chart : Axials : AX & AP

CAP (μF)	AX : 250Vac / 400Vdc				AP : 500Vac / 1000Vdc				AP : 660Vac / 1500Vdc			
	L	W	T	t	L	W	T	t	L	W	T	t
0.01									29	6.5	4	0.6
0.015									29	7.5	5	0.6
0.022									29	9	6.5	0.6
0.033									29	12	6.5	0.6
0.047									29	14	8.5	0.6
0.068									29	16	10.5	0.8
0.1	19	6	11	0.6	29	16	10	0.8	29	18.5	13	0.8
0.15	19	7.5	12	0.6	29	18.5	11.5	0.8	29	22	16.5	0.8
0.22	19	9	14	0.6	29	21.5	14.5	0.8	46	18.5	13	0.8
0.33	19	11.5	16	0.6	29	25	18	0.8	46	22	16.5	0.8
0.47	19	14	17.5	0.8	46	19.5	15	0.8	46	25.5	20	0.8
0.68	29	12	16	0.8	46	24	17.5	0.8	46	30	24.5	0.8
1.00	29	15	19	0.8	46	28	21.5	0.8	46	36	30.5	0.8
1.5	29	18	22	0.8	46	34	25	0.8	46	43.5	38	0.8
2.2	29	22	26	0.8	46	40	30	0.8				

AX Range : Terminations are tinned copper clad steel with a minimum length of 30mm

Pulse performance

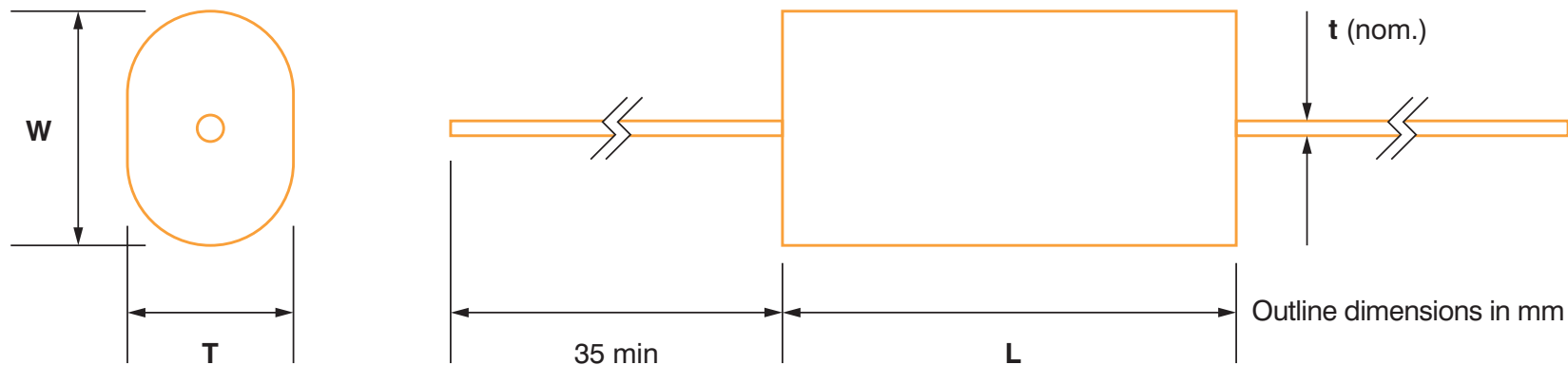
Body length (mm)	Rated voltage (Vdc)		
	250V AX	500V AP	660V AP
19	150		
29	100	80	100
46		50	70

Maximum rates of change of Voltage dV/dt (V/ μ S)

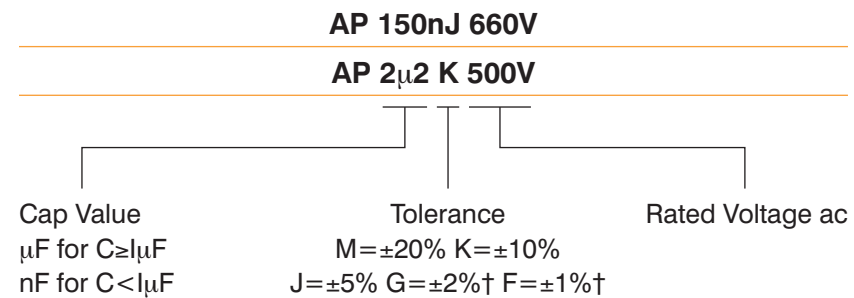
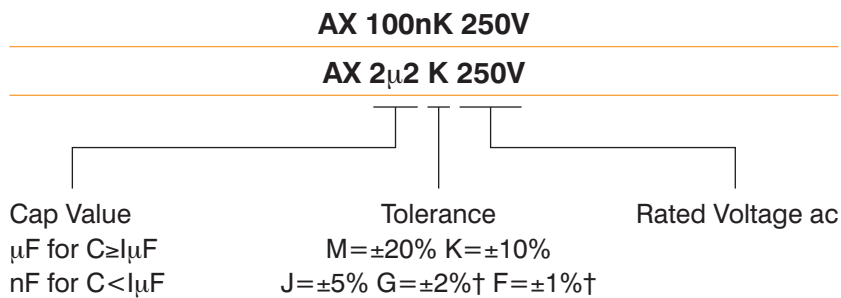
Figures quoted in the chart above assume linear charge/discharge to / from rated voltage.

When applied voltage (V_A) is less than the rated voltage (V_R) the rating may be increased by a factor V_R/V_A .

Outline dimensions



Ordering details



† subject to availability

Contact details

Industrial Capacitors (Wrexham) Ltd

Miners Road Llay Wrexham North Wales LL12 0PJ

Telephone 44 (0)1978 853805 Facsimile 44 (0)1978 853785

Web www.icwltd.co.uk Email sales@icwltd.co.uk