# **Arcotronics**

## Castanet All-Tantalum Capacitors

# Series CA and CAE

47 μF - 1800 μF 125V - 6VDC -55°C to +125°C

This conveniently-packaged polar button unit employs a non-solid electrolyte, and has a sintered tantalum anode. The anode is produced from a high capacitance powder resulting in a capacitor of small size and large CV product.

The cathode is also of tantalum, and overcomes the restrictions of a silver cathode system in allowing a high ripple current rating, and application of a 3 volt reverse potential. This all-tantalum construction results in a non-catastrophic wear-out mechanism.

The seal is a highly efficient system, comprising a PTFE gasket clamped between coined plates of tantalum by a work-hardened nickel ring. This type of seal, common to all button styles, is largely responsible for their long life and high reliability under severe military environments.

The CAE series is an extension of the CA series with the anode produced from selected powder of very high capacitance giving a higher CV product.

The CA and CAE ranges are stud mounted and are also available in printed circuit mounting form, designated CAPC and CAEPC respectively.

Applications

The CA and CAE series are designed for use in general military and professional applications. For example: Power supply 'smoothing'. Filter networks, switching, by-pass, timer functions, and where reverse potentials

### Approval of the manufacturing facility

The Capacitor Unit is approved to manufacture nonsolid electrolytic tantalum capacitors under BS 9000. CECC. and IECQ. The unit is registered on the Defence Contracts. List as satisfying the requirements of DEF STAN 05-21.



- All-Tantalum electrodes eliminate silver migration.
- · Withstands high ripple current.
- Long life reliability.
- Reverse voltage capability.
- Approved to BS CECC 30 202 002.
  Instant use after long storage.

Ripple current capability
The maximum allowable ripple current is I A r.m.s. up to 85°C, and 750 mA r.m.s. to 125°C. These values apply under normal cooling conditions and are irrespective of frequency or waveform. The algebraic sum of the a.c. peak and d.c. voltages must not exceed the forward or reverse voltage ratings at the relevant temperature.

At certain frequency/temperature/DC voltage combinations higher levels of ripple current may be used. The Applications Department should be contacted before the above levels are exceeded.

Reverse voltage capability

The CA and CAE series employs tantalum cathodes which allow the continuous application of reverse potentials not exceeding 3V over the whole temperature range.

### Specification

These capacitors are BS 9000 approved, and are available released to BS CECC 30 202 002.

Alternatively, capacitors can be supplied to any of the following specifications:

DEF STAN 59-44 (Part 3) section 2. Arcotronics Specification 402/SD/180. DQAB, MIL-C-83500/1A for the CA and CAPC devices only

This device is included in the German QPL, the certificate numbers being F97-80 (CA and CAE style) and F98-80 (CAPC and CAEPC style). It is also included in the French and Belgium QPL.

**ARCOTRONICS** 

### The BS severities met by this range:-

Environmental

55/125/56 classification

Rated temperature 85°C Vibration:

10-2000 Hz, 0.75mm or

Bump: Shock:

98m/s², 15h 390m/s², 4000 bumps 981 m/s²

981 m/s<sup>2</sup> Acceleration: Low Air Pressure: 1kPa.

### Surge voltage

The surge voltage capability is 115% of the voltage rating at the relevant temperature.

### Temperature range

The capacitor is designed for operation between -55°C and +125°C, with linear voltage derating above 85°C to 66% of the rated voltage at + 125°C

### Capacitance tolerance

The standard capacitance tolerance is ± 20% although special tolerances are available by arrangement.

### Weight

The CA and CAE style has a stud mounting, and weighs approximately 18.1 grams, including the nut. The CAPC and CAEPC style, which has a printed circuit board mounting, weighs approximately 17.3 grams.

### Notes on measurements

Capacitance and dissipation factor are measured at 50 Hz on components released to BS, DEF STAN and the Arcotronic Specification. The parametric limits listed below relate to these specifications.

MIL capacitors are measured at 120 Hz, this information being available on request

The leakage current values quoted are measured after the application of the full working voltage for 3 minutes. The performance curves are drawn for typical parametric values. The maximum allowable values are detailed in the relevant specification.

### Vibration

It is recommended that where high vibration levels are likely to be experienced the base insulator disc should be fitted whenever Printed Circuit Mounting styles are used. Arcotronics Part No. 402/2/50167/401 see Publication No. 3005.

Ordering procedure Example CAPC (220 µF, 50V) Arcotronics part Number 402/1/50158/011 NATO Stock Number 5910-99-017-2767

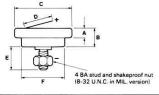
### Arcotronics Part Numbers, NATO Stock Numbers and Parametric Limits

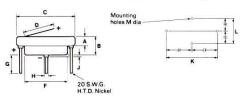
				Dissipation		Impedance		Leakage		ΔC		PART Nos and NATO STOCK Nos				
1	Capacitance	Rated	Category	Factor at 50 Hz (%)		at 100 KHz (11)		Current (µ A)		at 50 Hz (%)		PART No. *		PART No. *		1
a		Voltage (85°C)	Voltage (125°C)	20°C	125°C	20°C	-55°C	20°C	125°C	-55°C	125°C	402/1/50157/-	N.S.N. 5910-99-017	402/1/50158/	N.S.N 5910-99-017	
Г	47	125	83.3	3.0	4.0	1.0	5.0	3.0	50	-10.0	7.5	003	2755	003	2773	١.,
	56	100	66.7	3.5	4.5	1.0	5.0	3.0	50	-12.5	7.5	004	2754	004	2772	
	68	75	50.0	5.0	6.5	1.0	5.0	3.0	50	-15.0	7.5	005	2750	005	2768	1
	82	75	50.0	5.5	7.0	1.0	5.0	3.0	50	-17.5	7.5	006	2751	006	2769	
	100	75	50.0	7.0	9.0	1.0	5.0	3.0	50	-20	7.5	007	2752	007	2770	1
	120	75	50.0	7.5	10.0	1.0	5.0	3.0	50	-25	7.5	008	2753	008	2771	1 8
	150	50	33.3	9.5	12.0	1.0	5.0	3.0	50	-30	10.0	009	2747	009	2765	
	180	50	33.3	11.5	15.0	1.0	5.0	3.0	50	-35	10.0	010	2748	010	2766	1
	220	50	33.3	14.0	18.0	1.0	5.0	3.0	50	-40	10.0	011	2749	011	2767	C
	270	30	20.0	17.0	20	1.0	5.0	5.0	50	-45	10.0	012	2745	012	2763	
	330	30	20.0	20	25	1.0	5.0	5.0	50	-50	10.0	013	2746	013	2764	
	390	20	13.4	25	30	1.0	5.0	5.0	50	-50	15.0	014	2742	014	2760	
	470	20	13.4	30	40	1.0	5.0	5.0	50	-55	15.0	015	2743	015	2761	
	560	20	13.4	35	45	1.0	5.0	5.0	50	-60	15.0	016	2744	016	2762	
	680	15	10.0	45	55	1.0	5.0	8.0	50	-65	20	017	2741	017	2759	1 0
	820	10	6.6	55	70	1.0	5.0	10.0	50	-70	20	018	2740	018	2758	
			5.3				5.0	10.0	50	-75	25	019	2739	019	2757	
	1000 1200	6	5.3 4.0	65 75	85 95	1.0 1.0	5.0	15.0 Leaka	50 ge	-75 -80 △ C	25	020	2738	019 020 ATO STOCK Nos	2757 2756	] . ]
	1000	6	4.0	65 75	95 pation or at	1.0	5.0	15.0	50 ge	-75 -80	25	020	2738	ATO STOCK Nos	2756	] ,
a	1000	8		65 75 Dissi	95 pation or at	1.0 1.0	5.0	15.0 Leaka	50 ge	-75 -80 △ C	25	020	2738 PART Nos and N	ATO STOCK Nos	2756	,
a	1000 1200 Capacitance	8 6 Rated Voltage	4.0  Category Voltage	Dissi Facto 50 H.	95 95 ipation or at z (%)	Impediat 100	5.0 since KHz (11) -55°C	Leaka Currer 20°C	50 1 (μ A) 125°C	75 -80 A C at 50	25 Hz (%) 125°C	020 PART No *  402/1/50157/	2738 PART Nos and N	020 ATO STOCK Nos PART No. * 402/1/50158/-	2756 EPC	,
a	Gapacitance at 50 Hz (µF)	Rated Voltage (85°C)	Category Voltage (125°C)	65 75 Dissi Facti 50 H. 20 °C 7.0 7.5	85 95 (pation or at z (%) 125*C 7.0 7.5	Impediat 100	5.0 since KHz (Ω) -55°C 15 15	Leaka Currer 20°C	50 1 (μ A) 125°C 50	-75 -80 A C at 50 t	25 Hz (%) 125°C	020 PART No * 402/1/50157/- 050 051	2738 PART Nos and N	020 ATO STOCK Nos PART No. * 402/1/50158/- 050 051	2756 EPC	,
a	Gapacitance at 50 Hz (µF)	Rated Voltage (85°C)	Category Voltage (125°C)	65 75 Diss. Fact. 50 H. 20 °C	85 95 ipation or at z (%) 125 °C	Impediat 100	5.0 since KHz (Ω) -55°C	Leaka Currer 20°C	50 7e 1 (µ A) 125°C 50 50	-75 -80 -55 °C -20 -22 -28	25 Hz (%) 125°C 10 10 10	020 PART No * 402/1/50157/- 050 051 052	2738 PART Nos and N	020  ATO STOCK Nos  CAI PART No. *  402/1/50158/-  050 051 052	2756 EPC	,
a	1000 1200 Capacitance at 50 Hz (µF) 82 100 120 150	Rated Voltage (85°C)  125 100 100 75	Category Voltage (125°C) 83.3 66.7 66.7 50.0	05 75 Diss. Fact. 50 H. 20°C 7.0 7.5 9.0 11.0	85 95 (patron or at z (%) 125 °C 7.0 7.5 9.0 11.0	Impediat 100	5.0 since KHz (Ω) 55°C 15 15 15 15	Leaka Currer 20°C	50 7e 1 (μ A) 125°C 50 50 50 50	-75 -80 A C at 50 i -55 °C -20 -22 -28 -35	25 4z (%) 125°C 10 10 10 12.5	020  PART No *  402/1/50/157/-  050 051 052 053	2738 PART Nos and N	020 ATO STOCK Nos CAI PART No. * 402/1/50158/- 050 051 052 053	2756 EPC	
a	1000 1200 Capacitance at 50 Hz (µF) 82 100 120 150 180	Rated Voltage (85°C)  125 100 100 75 75	Category Voltage (125°C) 83.3 66.7 66.7 50.0 50.0	055 75 Diss. Fact: 50 H. 20°C 7.0 7.5 9.0 11.0	85 95 (pation or at z (%) 125 °C 7.0 7.5 9.0 11.0 13.0	Impediat 100	5.0 since KHz (II) -55°C 15 15 15 15	Leakar Currer 20°C	50 125°C 50 50 50 50 50	75 -80 Δ C at 50 -55°C	25 4z (%) 125 °C 10 10 10 12.5 12.5	020 C. PART No * 402/1/50157/- 050 051 052 063 054	2738 PART Nos and N	020  ATO STOCK Nos  PART No. *  402/1/50158/-  050 051 052 053 054	2756 EPC	
a	1000 1200 1200 Capacitance at 50 Hz (µF) 82 100 120 150 180 220	Rated Voltage (85°C)  125 100 100 75 63	Category Voltage (125°C) 83.3 66.7 50.0 50.0 40.0	055 75 Diss. Fact. 50 H. 20°C 7.0 7.5 9.0 11.0 13.0 15.0	(pation or at 2 (%) 125 °C 7.0 7.5 9.0 11.0 13.0 15.0	Impediat 100	5.0 since KHz (Ω) -55°C 15 15 15 15 15 15	20°C  4 4 4 4 4 4	50 125°C 50 50 50 50 50 50 50	75 80 AC at 50 t	25 125°C 10 10 10 12.5 12.5 12.5	020 PART No * 402/1/50157/- 050 051 052 053 054 055	2738 PART Nos and N	020  ATO STOCK Nos  CAI  PART No. *  402/1/50158/-  050  051  052  053  054  055	2756 EPC	
a	1000 1200 1200 Capacitance at 50 Hz (µF) 82 100 120 150 180 220 270	Rated Voltage (85°C)  125 100 100 75 63 40	Category Voltage (125°C) 83.3 66.7 66.7 50.0 40.0 25.0	055 75 Diss. Facts 50 H. 20°C 7.0 7.5 9.0 11.0 13.0 15.0 18.0	## ## ## ## ## ## ## ## ## ## ## ## ##	Impediat 100	55°C  15 15 15 15 15 15	15.0  Leaka; Currer  20°C  4  4  4  4  5	50 125°C 50 50 50 50 50 50	-75 -80 Δ C at 50 -55°C -20 -22 -28 -35 -40 -45 -50	25 Hz (%) 125 °C 10 10 10 12.5 12.5 12.5 12.5	020 II C.C. PART No * 402/1/50157/- 050 051 052 063 054 055 056	2738  PART Nos and N  AE  N.S.N.	020  ATO STOCK Nos  PART No. *  402/1/50158/-  050 051 052 053 054 055 056	2756  EPC  N.S.N.	
a	1000 1200 1200 Capacitance at 50 Hz (µF) 82 100 120 150 180 220 270 330	Rated Voltage (85°C)  125 100 100 75 63 40	Category Voltage (125°C) 83.3 66.7 66.7 50.0 50.0 40.0 25.0 25.0	055 75 Dissi Facts 50 H. 20°C 7.0 7.5 9.0 11.0 13.0 15.0 18.0 22.0	85 95 (pation or at z (%) 7.0 7.5 9.0 11.0 15.0 18.0 22.0	Impediat 100	5.0 since KHz (II) -55°C 15 15 15 15 15 15 15	15.0  Leaka, Currer  20°C  4  4  4  4  5  5	50 125°C 50 50 50 50 50 50	-75 -80 -55*C -55*C -20 -22 -28 -35 -40 -45 -50 -50	25  125 °C  10 10 10 10 12.5 12.5 12.5 12.5 12.5 12.5	020  PART No *  402/1/50157/-  050 051 052 053 054 055 056 057	2738 PART Nos. and N AE N.S.N.	020  ATO STOCK Nos PART No. *  4021/50158/-  050 051 052 053 054 055 056 057	2756  EPC N S.N.	
a	1000 1200 1200 1200 1200 1200 1200 150 180 220 270 330 390	Rated Voltage (85°C)  125 100 100 75 75 63 40 40	Caregory Voltage (125°C) 83.3 66.7 66.7 50.0 50.0 40.0 25.0 25.0 25.0	055 75 Diss. Fach 50 H. 20 ° C 7.0 7.5 9.0 11.0 13.0 18.0 22.0 30.0	## ## ## ## ## ## ## ## ## ## ## ## ##	Impediat 100	5.0  since KHz (II)  -55°C  15 -15 -15 -15 -15 -15 -15 -15 -15 -15	15.0  Leaka, Currer  20°C  4  4  4  5  5  5	125°C 50 50 50 50 50 50 50 50	-75 -80 Δ C at 50 -55°C -20 -22 -28 -35 -40 -45 -50 -55 -55 -55	25 Hz (%)  125°C  10 10 10 10 12.5 12.5 12.5 12.5 12.5 12.5 12.5	020  PART No *  402/1/50157/-  050 051 052 053 054 065 056 057 058	2738  PART Nos and N  AE  N.S.N.	020  ATO STOCK Nos  CAI PART No. *  402/1/50158:-  050 051 052 053 054 055 056 057 058	2756  EPC  N.S.N.	c
a	1000 1200 1200 1200 1200 150 Hz (µF) 82 100 120 150 180 220 270 330 390 470	Rated Voltage (85°C)  125 100 75 63 40 40 40 25	Category Voltage (125°C) 83.3 66.7 66.7 50.0 50.0 40.0 25.0 25.0 25.0	055 75 Diss. Fact 50 H. 20°C 7.5 9.0 11.0 13.0 15.0 22.0 30.0 35.0	85 95 (pation or at z (%) 125°C 7.0 7.5 9.0 13.0 15.0 22.0 30.0 35.0	Impediat 100	55°C  15 15 15 15 15 15 15 15 15 15	20°C  4 4 4 4 5 5 5 5	50 125°C 50 50 50 50 50 50 50 50 50 50	-75 -80  Δ C at 50 t  -55 *C  -20 -22 -28 -35 -40 -45 -50 -50 -50 -50 -55 -60	25 125 °C 10 10 10 12.5 12.5 12.5 12.5 20 20	020  // C.  PART No *  402/1/50157/-  050 051 052 063 054 065 056 057 058 059	2738 PART Nos. and N AE N.S.N.	020  ATO STOCK Nos  CAI  PART No. *  402/1/50158/-  050 051 052 053 054 055 056 057 058 059	2756  EPC N S.N.	c
a	1000 1200 1200 1200 1200 120 120 120 150 180 220 270 330 470 560	Rated Voltage (85°C) 125 100 100 75 75 63 40 40 40 25	4.0 Category Voltage (125°C) 83.3 66.7 66.7 50.0 50.0 50.0 25.0 25.0 25.0 16.0 16.0	85 75 Dissi, Facto 50 H. 20°C 7.0 7.5 9.0 11.0 13.0 15.0 18.0 22.0 30.0 35.0 40.0	## 85   95   95   95   95   95   95   95	Impediat 100	5.0  since KHz (II)  -55°C  15 15 15 15 15 15 15 15 15 15 15	15.0  Leakay Currer  20°C  4  4  4  5  5  5  5	50 125°C 50 50 50 50 50 50 50 50 50	-75 -80 Δ C at 50 / -55*C -20 -22 -28 -35 -40 -45 -50 -55 -60 -65	25  125°C  10 10 10 10 12.5 12.5 12.5 12.5 12.5 12.5 12.5 12.5	020  PART No *  402/1/50157/-  050 051 052 053 054 055 056 057 058 059 060	2738 PART Nos. and N AE N.S.N.	020  ATO STOCK Nos  CAI PART No. *  402/1/50158:-  050 051 052 053 054 055 056 057 058 059 060	2756  EPC N S.N.	c
a	1000 1200 1200 Capacitance at 50 Hz (\(\mu F\)) 82 100 120 150 180 220 270 330 390 470 560 680	Rated Voltage (85°C)  125 100 75 63 40 40 40 25 25 16	4.0 Category Voltage (125°C) 83.3 66.7 90.0 50.0 40.0 25.0 25.0 25.0 16.0 16.0 10.0	055 75 Diss. Fact 50 H. 20°C 7.0 7.5 9.0 11.0 13.0 15.0 18.0 22.0 30.0 35.0 40.0	## 125°C  7.0  7.5  9.0  11.0	Impediat 100	5.0  since KHz (Ω)  -55°C  15 -15 -15 -15 -15 -15 -15 -15 -15 -15	20°C  4 4 4 4 5 5 5 8	50 125 °C 50 50 50 50 50 50 50 50 50 50	-75 -80  Δ C at 50 t  -55 -C  -20 -22 -28 -35 -40 -45 -50 -55 -60 -65 -70	25  125°C  10 10 10 12.5 12.5 12.5 12.5 12.5 20 20 20 25	020  C.  PART No *  402/1/50157/- 050 051 052 053 054 055 056 057 058 059 060 061	2738 PART Nos. and N AE N.S.N.	020  ATO STOCK Nos  CAI  PART No. *  402/11/50158/-  050 051 052 052 053 054 055 055 056 057 058 059 060	2756  EPC N S.N.	c
a	1000 1200 1200 1200 1200 120 120 120 120 120 120 120 120 120 120 120	Rated Voltage (85°C)  125 100 100 75 75 40 40 40 25 16	4.0 Category Voltage (125°C) 83.3 66.7 50.0 50.0 40.0 25.0 25.0 25.0 16.0 10.0	65 75 Dissi Facto 50 H. 20°C 7.5 9.0 11.0 13.0 15.0 18.0 30.0 35.0 40.0 45.0 66.0	#5 95   #5   #5   #5   #5   #5   #5   #5	Impediat 100	5.0  since KHz (II)  -55°C  15 -15 -15 -15 -15 -15 -15 -15 -15 -15	15.0  Leaka; Currer  20°C  4  4  4  5  5  5  8  10	50 125°C 50 50 50 50 50 50 50 50 50 50 50 50 50	-75 -80 Δ C at 50 t -55*C -20 -22 -28 -35 -40 -45 -50 -55 -60 -65 -70 -75	125 °C  10 10 10 10 12.5 12.5 12.5 12.5 20 20 20 25	020  PART No *  402/1/50157/-  050 051 052 053 054 055 056 057 058 059 060 061 062	2738 PART Nos. and N AE N.S.N.	020.  ATO STOCK Nos  PART No. *  402/1/50158/-  050 051 052 053 054 055 054 055 056 057 059 069 060 061	2756  EPC N S.N.	c
a	1000 1200  Capacitance at 50 Mz (µF)  82 100 120 150 180 220 270 330 390 390 470 680 820 820	Rated Voltage (85°C)  125 100 75 63 40 40 40 25 16 16	Category Voltage (125°C) 83.3 66.7 66.7 90.0 90.0 25.0 25.0 16.0 16.0 10.0 10.0	85 75 Dississipport of the state of the stat	## 125°C  7.0  7.5  9.0  11.0  13.0  15.0  22.0  30.0  35.0  40.0  40.0  65.0	Impediat 100	5.0  Ince KHz (II)  -55°C  15 15 15 15 15 15 15 15 15 15 15 15 15	15.0  Leaka, Currer  20°C  4  4  4  4  5  5  5  8  10  10	50 125°C 50 50 50 50 50 50 50 50 50 50	-75 -80  Δ C at 50 l -55 -C  -20 -22 -28 -35 -40 -45 -55 -60 -65 -70 -75 -80	125 °C  10 10 10 10 10 12.5 12.5 12.5 12.5 12.5 12.5 12.5 12.5	020  C.  PART No *  402/1/50157/-  050  051  052  053  054  055  056  057  058  059  060  061  062  063	2738 PART Nos. and N AE N.S.N.	020  ATO STOCK Nos  CAI  PART No. *  402/1/50158/-  050 051 052 052 053 054 055 055 055 057 058 059 060 061 062 063	2756  EPC N S.N.	c.
a	1000 1200  Capacitance at 150 Hz (uF)  82 100 120 150 220 220 220 270 330 390 470 660 680 820 1000 1200	Rated Voltage (85°C)  125 100 100 75 63 40 40 40 25 16 10 10	Caregory Voltage (125°C)  83.3 66.7 66.7 50.0 40.0 25.0 25.0 16.0 10.0 10.0 6.6 6.6	85 75 Dississipport of the state of the stat	85 95 (patron or at 2 (%) (%) (%) (%) (%) (%) (%) (%) (%) (%)	1.0 1.0 1.0 1.0 1.0 20°C	5.0  since KHz (II)  -55°C  15 15 15 15 15 15 15 15 15 15 15 15 15	15.0  Leaka; Currer  20°C  4  4  4  5  5  5  8  10  10	50 125 °C 50 50 50 50 50 50 50 50 50 50	-75 -80 at 50 at 5	125 °C  10 10 10 10 12.5 12.5 12.5 12.5 20 20 25 30 30	020  PART No * 402/1/50157/-  050 051 052 053 054 066 066 069 069 061 062 063 064	2738 PART Nos. and N AE N.S.N.	020.  ATO STOCK Nos  PART No. *  402/1/50158/-  050 051 052 053 054 055 056 057 059 059 060 061 062 063 064	2756  EPC N S.N.	c
a	1000 1200  Capacitance at 50 Mz (µF)  82 100 120 150 180 220 270 330 390 390 470 680 820 820	Rated Voltage (85°C)  125 100 75 63 40 40 40 25 16 16	Category Voltage (125°C) 83.3 66.7 66.7 90.0 90.0 25.0 25.0 16.0 16.0 10.0 10.0	85 75 Dississipport of the state of the stat	## 125°C  7.0  7.5  9.0  11.0  13.0  15.0  22.0  30.0  35.0  40.0  40.0  65.0	Impediat 100	5.0  Ince KHz (II)  -55°C  15 15 15 15 15 15 15 15 15 15 15 15 15	15.0  Leaka, Currer  20°C  4  4  4  4  5  5  5  8  10  10	50 125°C 50 50 50 50 50 50 50 50 50 50	-75 -80  Δ C at 50 l -55 -C  -20 -22 -28 -35 -40 -45 -55 -60 -65 -70 -75 -80	125 °C  10 10 10 10 10 12.5 12.5 12.5 12.5 12.5 12.5 12.5 12.5	020  C.  PART No *  402/1/50157/-  050  051  052  053  054  055  056  057  058  059  060  061  062  063	2738 PART Nos. and N AE N.S.N.	020  ATO STOCK Nos  CAI  PART No. *  402/1/50158/-  050 051 052 052 053 054 055 055 055 057 058 059 060 061 062 063	2756  EPC N S.N.	c.

<sup>\*</sup> Note: Part numbers may be shown as 402/8/- . Numbers 402/8/- and 402/1/- are interchangeable. 402/8/- exists for historic reasons only.



### Dimensions for CAPC and CAEPC styles

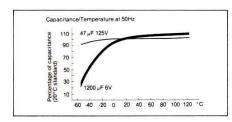


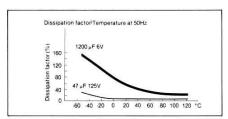


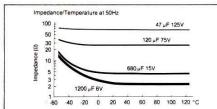
A	B	C	D	E	F	G	H	J	K	L	M
max	max	max	max	max	max	min	max	max	crs	crs	dia
3.6	8.5	21.8	8.4	8.4	16.2	5.8	1.8	0.8	20.3 (0.800'')	10.2 (0.400'')	1.1

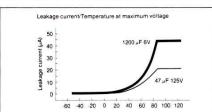
All dimensions are in millimetres

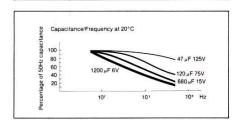
### Performance curves CA & CAPC Series

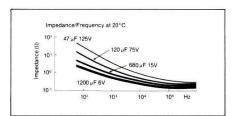


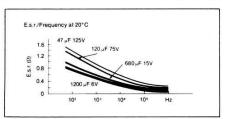












**Reliability**All capacitors are subjected to burn-in. This is to remove infant mortalities and ensure reliability.

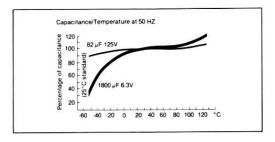
The capacitor lifetime is enhanced when the unit is subjected to a reduced ripple current, a low ambient temperature, and is externally cooled.

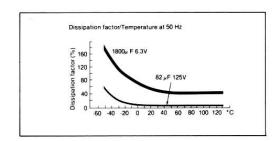
### Safety aspects

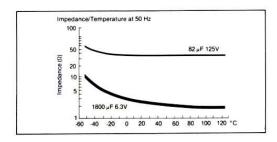
These capacitors must be used within the stated limits, any deviation must be agreed with the manufacturer.

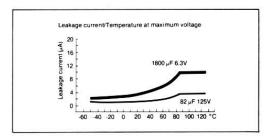
# **Arcotronics**

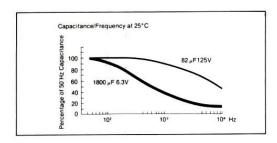
### Performance curves CAE & CAEPC Series

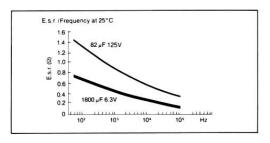


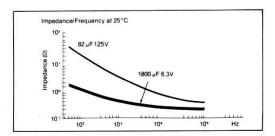












### Applications information

Capacitors may be operated at less than the rated voltage, resulting in significantly reduced leakage current values

In timing circuits, or other applications where the devise is subjected only to a d.c. voltage, the ballistic or d.c. capacitance will be somewhat larger than that measured at 50 Hz.

The parametric information must necessarily be brief, although additional comprehensive data is available on request, and tests tailored to customers' requirements can be made.

Note: Other forms of mounting e.g. tag mounting are available on



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