

Type 400C 95 °C, Long-Life, Computer Grade, Radial Leaded

Twice the Life!



The Type 400C is the PC-mount equivalent for Type 500C screw-terminal computergrade capacitor. It's for bus filtering applications where long life is critical like telecom systems and industrial power supplies. Type 400C delivers 2 to 3 times the life of Type 4CMC, and above 250 V it has nearly the same capacitance. Its extended cathode foil assures cool operation with heatflow from the capacitor element to the can in all mounting orientations.

Highlights

- More than 10 years life in most applications
- Ripple Currents to > 50 amps at 55 °C
- 3-leads
- Printed-circuit mounting
- Thermal-Pak™ extended cathode construction

Specifications

Operating Temperature:	-40 °C to +95 °C
Rated Voltage:	100 to 500 Vdc
Capacitance:	170 µF to 29,000 µF ± 20%
DC Leakage Current:	≤ 3 √CV µA, 4 mA max, 5 min.
Cold Impedance:	-20 °C multiple of 25 °C Z ≤ 4 for 100 V 3 for 150 V & up.

Ripple Current Multipliers:

Ambient Temperature

45 °C	55 °C	65 °C	75 °C	85 °C	95 °C
2.00	1.82	1.59	1.33	1.00	0.48

Frequency

	50 Hz	60 Hz	120 Hz	360 Hz	1 kHz	5 kHz & up
100 to 160 V	0.80	0.85	1.00	1.05	1.08	1.08
200 to 350 V	0.80	0.83	1.00	1.15	1.20	1.20
400 to 500 V	0.78	0.80	1.00	1.30	1.40	1.40

EIA Ripple Life: 3000 h at full load at 85 °C per EIA IS-749

ΔCapacitance ±20%
ESR 200% of limit
DCL 100% of limit

Life Test: 3000 h at 95 °C with rated voltage

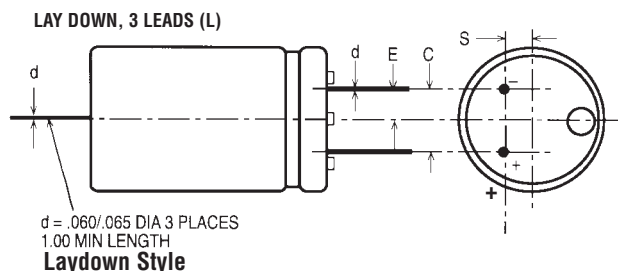
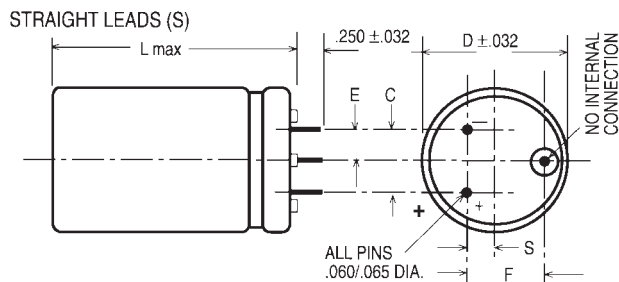
ΔCapacitance ±20%
ESR 200% of limit
DCL 100% of limit

Shelf Life Test: 500 h at 95 °C. Capacitance, ESR and DCL meet initial requirements.

Vibration: 10 to 55 Hz, 0.06" and 10 g max, 2 h each plane.

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Outline Drawings



Case Dimensions

Case Code	Inches						Millimeters					
	D ± .031	L MAX	C ± .015	S ± .031	E ± .031	F ± .015	D ± .78	L MAX	C ± .78	S ± .78	E ± .78	F ± .38
AK	1.375	1.75	0.50	0.175	0.25	0.55	34.93	44.45	12.70	4.45	6.35	13.97
AA	1.375	2.25	0.50	0.175	0.25	0.55	34.93	57.15	12.70	4.45	6.35	13.97
AH	1.375	2.75	0.50	0.175	0.25	0.55	34.98	69.85	12.70	4.45	6.35	13.97
AB	1.375	3.25	0.50	0.175	0.25	0.55	34.93	82.55	12.70	4.45	6.35	13.97
AJ	1.375	3.75	0.50	0.175	0.25	0.55	34.93	95.25	12.70	4.45	6.35	13.97
AC	1.375	4.25	0.50	0.175	0.25	0.55	34.93	107.95	12.70	4.45	6.35	13.97
AD	1.375	4.75	0.50	0.175	0.25	0.55	34.93	120.65	12.70	4.45	6.35	13.97
AE	1.375	5.25	0.50	0.175	0.25	0.55	34.93	133.35	12.70	4.45	6.35	13.97
AF	1.375	5.75	0.50	0.175	0.25	0.55	34.93	146.05	12.70	4.45	6.35	13.97
EA	1.75	2.25	0.70	0.375	0.35	0.90	44.45	57.15	17.78	9.53	8.89	22.86
EH	1.75	2.75	0.70	0.375	0.35	0.90	44.45	69.85	17.78	9.53	8.89	22.86
EB	1.75	3.25	0.70	0.375	0.35	0.90	44.45	82.55	17.78	9.53	8.89	22.86
EJ	1.75	3.75	0.70	0.375	0.35	0.90	44.45	95.25	17.78	9.53	8.89	22.86
EC	1.75	4.25	0.70	0.375	0.35	0.90	44.45	107.95	17.78	9.53	8.89	22.86
ED	1.75	4.75	0.70	0.375	0.35	0.90	44.45	120.65	17.78	9.53	8.89	22.86
EE	1.75	5.25	0.70	0.375	0.35	0.90	44.45	133.35	17.78	9.53	8.89	22.86
EF	1.75	5.75	0.70	0.375	0.35	0.90	44.45	146.05	17.78	9.53	8.89	22.86
BA	2.00	2.25	0.80	0.425	0.40	1.00	50.80	57.15	20.32	10.80	10.16	25.40
BH	2.00	2.75	0.80	0.425	0.40	1.00	50.80	69.85	20.32	10.80	10.16	25.40
BB	2.00	3.25	0.80	0.425	0.40	1.00	50.80	82.55	20.32	10.80	10.16	25.40
BJ	2.00	3.75	0.80	0.425	0.40	1.00	50.80	95.25	20.32	10.80	10.16	25.40
BC	2.00	4.25	0.80	0.425	0.40	1.00	50.80	107.95	20.32	10.80	10.16	25.40
BD	2.00	4.75	0.80	0.425	0.40	1.00	50.80	120.65	20.32	10.80	10.16	25.40
BE	2.00	5.25	0.80	0.425	0.40	1.00	50.80	133.25	20.32	10.80	10.16	25.40
BF	2.00	5.75	0.80	0.425	0.40	1.00	50.80	146.05	20.32	10.80	10.16	25.40

Part Numbering System

400C	262	M	100	AK	8	
Type	Capacitance	Tolerance	Voltage	Case Code	Insulation	Terminal
	262 = 2600 µF 171 = 170 µF	M = ±20% T = -10% +50% U = -10% +75%	100 = 100 V 450 = 450 V		0 = bare can 8 = PVC and Standoffs 9 = Polyester and Standoffs	(blank) = Straight Leads L = Lay Down (3 Leads)

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Typical Performance Curves

