

## Aluminum Capacitors + 125 °C, Miniature, Axial Lead

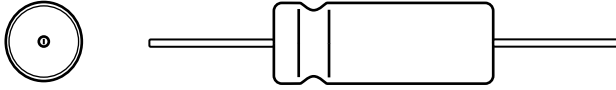


Fig.1 Component outline

**FEATURES**

- Extended temperature range
- Economical
- High reliability design
- Low DCL option
- For timing circuit applications



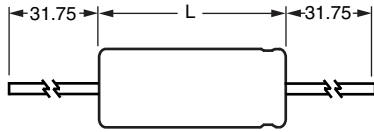
QUICK REFERENCE DATA	
DESCRIPTION	VALUE
Nominal case size Ø D x L in mm	0.248" x 0.689" [6.3 x 17.5] to 0.492" x 1.752" [12.5 x 44.5]
Operating temperature	- 55 °C to + 125 °C
Rated capacitance range, C <sub>R</sub>	6.8 µF to 3900 µF
Tolerance on C <sub>R</sub>	± 20 %
Rated voltage range, U <sub>R</sub>	3 WV <sub>DC</sub> to 63 WV <sub>DC</sub>
Termination	axial leaded
Life validation test at 125 °C 500 h for case size BB to CB 1000 h for case size CC to DF 2000 h for case size DH to FK	Δ CAP ≤ 20 % from initial measurement Δ ESR ≤ 1.5 x initial specified limit Δ DCL ≤ initial specified limit
Shelf life 500 h at 85 °C	Δ CAP ≤ 20 % from initial measurement Δ ESR ≤ 1.5 x initial specified limit Δ DCL ≤ 3 x the initial specified limit
DC leakage current	I = 0.004 CV + 3 I in µA, C in µF, V in Volts

RIPPLE CURRENT MULTIPLIERS				
TEMPERATURE				
AMBIENT TEMPERATURE	MULTIPLIERS			
+ 105 °C	0.5			
+ 85 °C	1.0			
+ 65 °C	2.0			
+ 55 °C or less	2.5			
FREQUENCY (Hz)				
WV <sub>DC</sub>	50 to 60	100 to 120	300 to 400	> 1000
3 to 63	0.90	1.00	1.10	1.35

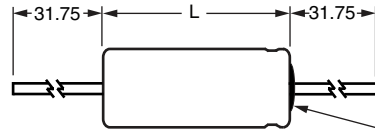
DIMENSIONS in inches [millimeters]						
CASE CODE	NOMINAL		STYLE 2		STYLE 5	
	D	L	D (max.)	L (max.)	D (max.)	L (max.)
BB	0.248 [6.3]	0.689 [17.5]	0.276 [7.0]	0.756 [19.2]	0.276 [7.0]	0.815 [20.7]
CB	0.315 [8.0]	0.689 [17.5]	0.339 [8.6]	0.756 [19.2]	0.339 [8.6]	0.815 [20.7]
CC	0.315 [8.0]	0.807 [20.5]	0.339 [8.6]	0.878 [22.3]	0.339 [8.6]	0.937 [23.8]
DC	0.374 [9.5]	0.807 [20.5]	0.402 [10.2]	0.878 [22.3]	0.402 [10.2]	0.937 [23.8]
DD	0.374 [9.5]	0.945 [24.0]	0.402 [10.2]	1.004 [25.5]	0.402 [10.2]	1.063 [27.0]
DF	0.374 [9.5]	1.260 [32.0]	0.402 [10.2]	1.319 [33.5]	0.402 [10.2]	1.378 [35.0]
DH	0.374 [9.5]	1.496 [38.0]	0.402 [10.2]	1.567 [39.8]	0.402 [10.2]	1.626 [41.3]
EF	0.433 [11.0]	1.260 [32.0]	0.465 [11.8]	1.319 [33.5]	0.465 [11.8]	1.378 [35.0]
EH	0.433 [11.0]	1.496 [38.0]	0.465 [11.8]	1.567 [39.8]	0.465 [11.8]	1.63 [41.3]
FH	0.492 [12.5]	1.496 [38.0]	0.516 [13.1]	1.567 [39.8]	0.516 [13.1]	1.63 [41.3]
FK	0.492 [12.5]	1.752 [44.5]	0.516 [13.1]	1.83 [46.5]	0.516 [13.1]	1.89 [48.0]

**DIMENSIONS AND AVAILABLE FORMS**

Case Style 2



Case Style 5



Epoxy end seal

**PART NUMBER INFORMATION**

630D	826	M	003	BB	2	A
TYPE	CAPACITANCE	CAPACITANCE TOLERANCE	DC VOLTAGE RATING	CASE CODE	CASE STYLE	PACKAGING
Identifies the series name.	Expressed in pF. The first two digits are significant figures. The third is the number of zeros.	M = - 20 %/+ 20 % A = - 10 %/+ 10 %	Expressed in volts. The letter "R" signifies a decimal point (i.e. 6R3 = 6.3 V).	(see table dimensions)	2 = Polyester insulating sleeve (Std.) 5 = Polyester insulating sleeve with resin end seal (required for exposure to halogenated cleaning solvents)	A = Bulk pack (Std.) T = Tape and reel (Not available in G and L diameters)

**Note**

- For lead (Pb)-free/RoHS compliant products add suffix "E3" to part number.  
Example: 630D157M030DF2AE3



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