

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

### **FEATURES**

- Extended temperature range
- Economical
- · Low DCL option
- · For timing circuit applications
- Material categorization: for definitions of compliance please see <a href="https://www.vishay.com/doc?99912"><u>www.vishay.com/doc?99912</u></a>



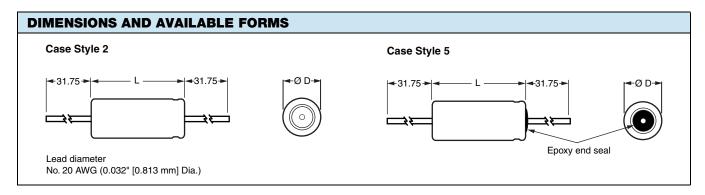
QUICK REFERENCE DATA						
DESCRIPTION	VALUE					
Nominal case size Ø D x L in mm	0.248" x 0.689" [6.3 x 17.5] to 0.492" x 1.752" [12.5 x 44.5]					
Operating temperature	-55 °C to +125 °C					
Rated capacitance range, C <sub>R</sub>	6.8 μF to 3900 μF					
Tolerance on C <sub>R</sub>	± 20 %					
Rated 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	$\Delta CAP \le 20$ % from initial measurement. $\Delta ESR \le 1.5$ x initial specified limit. $\Delta DCL \le$ initial specified limit.					
Shelf life 500 h at 85 °C	$\begin{array}{c} \Delta \text{CAP} \leq 20 \ \% \ \text{from initial} \\ \text{measurement.} \\ \Delta \text{ESR} \leq 1.5 \ x \ \text{initial specified limit.} \\ \Delta \text{DCL} \leq 3 \ x \ \text{the initial specified limit.} \\ \end{array}$					
DC leakage current	I = 0.004 CV + 3 (3 $V_{DC}$ to 63 $V_{DC}$ ) I in $\mu$ A, C in $\mu$ F, V in Volts					

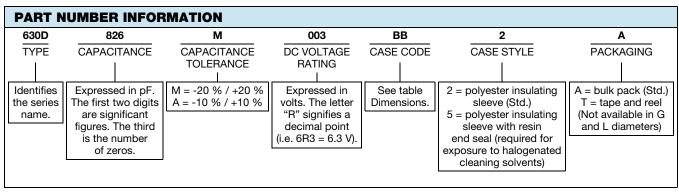
100 UF 25 VDC ±10%

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 T	O 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.)		
ВВ	0.248 [6.3]	0.689 [17.5]	0.276 [7.0]	0.756 [19.2]	0.276 [7.0]	0.815 [20.7]		
СВ	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]		

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#### Note

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

Statements about product lifetime are based on calculations and internal testing. They should only be interpreted as estimations. Also due to external factors, the lifetime in the field application may deviate from the calculated lifetime. In general, nothing stated herein shall be construed as a guarantee of durability.

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