

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 www.vishay.com/doc?99912



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 _R	6.8 μF to 3900 μF				
Tolerance on C _R	± 20 %				

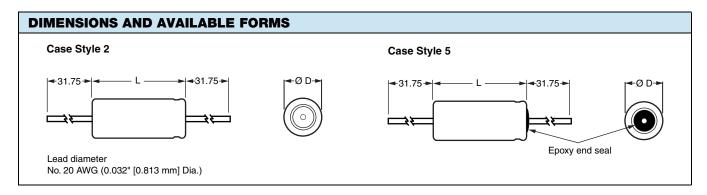
100 UF 25 VDC ±10%

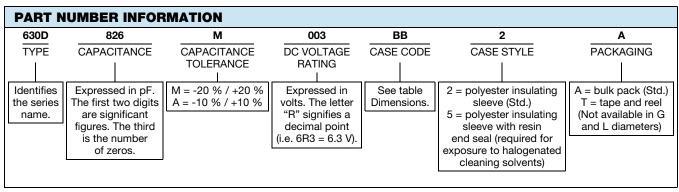
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Rated voltage range, U _R	3 WV _{DC} to 63 WV _{DC}				
Termination	Axial leaded				
Life validation test at 125 °C 500 h for case size BB to CB 1000 h for case size CC to DF 2000 h for case size DH to FK	$\Delta CAP \leq 20$ % from initial measurement. $\Delta ESR \leq 1.5$ x initial specified limit. $\Delta DCL \leq$ initial specified limit.				
Shelf life 500 h at 85 °C	$ \Delta \text{CAP} \leq 20 \text{ \% from initial} \\ \text{measurement.} $ $ \Delta \text{ESR} \leq 1.5 \text{ x initial specified limit.} $ $ \Delta \text{DCL} \leq 3 \text{ x the initial specified limit.} $				
DC leakage current	I = 0.004 CV + 3 (3 V _{DC} to 63 V _{DC})				

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 _{DC}	50 TO 60	100 TO 120		300 TO 400	> 1000		
3 to 63	0.90	1.00		1.10	1.35		

DIMENSION	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]			
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]			

Vishay Sprague





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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