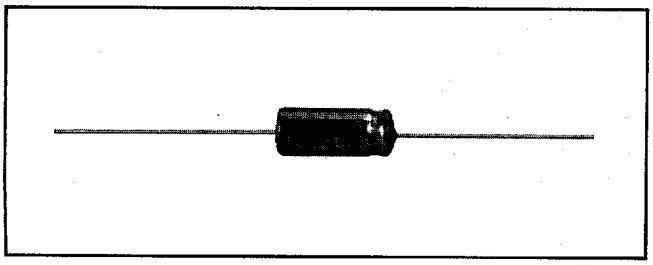
TYPE 630D
Aluminum Capacitors
+ 125°C, Miniature, Axial Lead

A COMPANY OF VISHAY SPRAGUE®



FEATURES

- Extended temperature range
- Economical
- High reliability design
- For timing circuit applications
- Available on special order - Call Buy/Resale Division for part numbers and specifications
- Original 630D short numbers are inventoried

PERFORMANCE CHARACTERISTICS

Operating Temperature: - 55°C to + 125°C.

Capacitance Range: 6.8µF to 3900µF.

Capacitance Tolerance: ± 20%.

Voltage Rating: 3 WVDC to 63 WVDC.

Case Size Range: .236" x .472" [6.0 x 12.0] to .472" x 1.771" [12.0 x 45.0].

Termination: Axial leaded.

Life Validation Test: 500 hours @ + 125°C:
Δ CAP ≤ 20% from initial measurement.
Δ ESR ≤ 1.5 x initial specified limit.
Δ DCL ≤ initial specified limit.

Shelf Test: 500 hours @ + 85°C:
Δ CAP ≤ 20% from initial measurement.
Δ ESR ≤ 1.5 x initial specified limit.
Δ DCL ≤ 3 x 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**
+ 125°C	0.5
+ 85°C	1.0
+ 65°C	2.0
+ 55°C or less	2.5

FREQUENCY (Hz)				
WVDC	**50 - 60**	**100 - 120**	**300 - 400**	**> 1000**
3 - 63	0.90	1.00	1.10	1.35

DIMENSIONS [Numbers in brackets indicate millimeters]

CASE CODE	NOMINAL		STYLE 2		STYLE 5	
	D	L	D (Max.)	L (Max.)	D (Max.)	L (Max.)
BB	.248 [6.3]	.689 [17.5]	.276 [7.0]	.756 [19.2]	.276 [7.0]	.815 [20.7]
CB	.315 [8.0]	.689 [17.5]	.339 [8.6]	.756 [19.2]	.339 [8.6]	.815 [20.7]
CC	.315 [8.0]	.807 [20.5]	.339 [8.6]	.878 [22.3]	.339 [8.6]	.937 [23.8]
DC	.374 [9.5]	.807 [20.5]	.402 [10.2]	.878 [22.3]	.402 [10.2]	.937 [23.8]
DD	.374 [9.5]	.945 [24.0]	.402 [10.2]	1.004 [25.5]	.402 [10.2]	1.063 [27.0]
DF	.374 [9.5]	1.260 [32.0]	.402 [10.2]	1.319 [33.5]	.402 [10.2]	1.378 [35.0]
DH	.374 [9.5]	1.496 [38.0]	.402 [10.2]	1.567 [39.8]	.402 [10.2]	1.626 [41.3]
EF	.433 [11.0]	1.260 [32.0]	.465 [11.8]	1.319 [33.5]	.465 [11.8]	1.378 [35.0]
EH	.433 [11.0]	1.496 [38.0]	.465 [11.8]	1.567 [39.8]	465 [11.8]	1.63 [41.3]
FH	.492 [12.5]	1.496 [38.0]	.516 [13.1]	1.567 [39.8]	.516 [13.1]	1.63 [41.3]
FK	.492 [12.5]	1.752 [44.5]	.516 [13.1]	1.83 [46.5]	.516 [13.1]	1.89 [48.0]

HOW TO ORDER

630D	826	M	003	BB	2	A
TYPE	CAPACITANCE	CAPACITANCE TOLERANCE	DC VOLTAGE RATING	CASE CODE	CASE STYLE	PACKAGING
	This is expressed in picofarads. The first two digits are the significant figures. The third is the number of zeros to follow.	M = ± 20%	This is expressed in volts. To complete the three-digit block, zeros precede the voltage rating. A decimal point is indicated by an "R" (6R3 = 6.3 volts).	See Dimensions.	2 = Polyester insulating sleeve. (Standard.) 5 = Polyester sleeve with resin end seal. (Required for exposure to halogenated cleaning solvents.)	A = Bulk Pack. Standard. T = Tape and Reel.

SPRAGUE®, 678 Main Street, Sanford, ME 04073-0231 • Phone (207) 490-7236 - Ceramic, Orange Drop®, Wrap and Fill Film, Foil, Miniature Aluminum • Phone: (207) 490-7243 - Aluminum, Wrap and Fill Metalized Film, Motor Starts • Fax 207-490-3906

D 24F ■ 8514812 0021741 068 ■