

Aluminum Capacitors + 105 °C, Miniature, Radial Lead

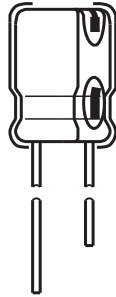


Fig.1 Component outline

FEATURES

- Broad operating range
- Low DC leakage current and dissipation factor
- Suitable for solid tantalum replacement applications



QUICK REFERENCE DATA	
DESCRIPTION	VALUE
Nominal case size Ø D x L in mm	0.236" x 0.433" [6.0 x 11.0] to 0.394" x 0.787" [10.0 x 20.0] (nominal)
Operating temperature	- 40 °C to + 105 °C
Rated capacitance range, C _R	1.0 µF to 330 µF
Tolerance on C _R	± 20 %
Rated voltage range, U _R	6.3 WVDC to 63 WVDC
Termination	Radial leads
Life validation test at 105 °C	2000 hours: Δ CAP ≤ 15 % (6.3 WVDC to 10 WVDC), ≤ 10 % (16 WVDC to 63 WVDC) from initial measurement. Δ DF ≤ 1.25 x initial specified limit. Δ DCL ≤ initial specified limit.

DIMENSIONS in inches [millimeters]						
CASE CODE	D (max.)	H (max.)	S	W1	W2	LEAD AWG NO.
AA	0.256 [6.502]	0.597 [15.164]	0.100 [2.540]	0.787 [19.990]	0.948 [24.079]	22
BB	0.335 [8.509]	0.638 [16.205]	0.138 [3.505]	0.787 [19.990]	0.948 [24.079]	22
CC	0.414 [10.516]	0.650 [16.510]	0.200 [5.080]	0.787 [19.990]	0.948 [24.079]	22
CD	0.414 [10.516]	0.784 [19.914]	0.200 [5.080]	0.562 [14.275]	0.688 [17.475]	22
CG	0.414 [10.516]	0.945 [24.003]	0.200 [5.080]	0.562 [14.275]	0.688 [17.475]	22

ORDERING EXAMPLE

Electrolytic capacitor 510D series: 510D 226 M 016 AA 3 D

DESCRIPTION	
CODE	EXPLANATION
510D	product type
226	capacitance value (22 µF)
M	tolerance (M = ± 20 %)
016	voltage rating at 105 °C (016 = 16 V)
AA	can size (see dimensions table)
3	sleeve and sealing (3 = p.v.c. sleeve w/epoxy end seal)
D	packaging (D = bulk; straight leads)

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Vishay Sprague

STANDARD RATINGS in inches [millimeters]		
CAPACITANCE (µF)	CASE CODE	PART NUMBER
6.3 WVDC AT + 105 °C, SURGE = 9 V		
47.0	AA	510D476M6R3AA3D
100.0	BB	510D107M6R3BB3D
150.0	CC	510D157M6R3CC3D
220.0	CD	510D227M6R3CD3D
330.0	CG	510D337M6R3CG3D
10 WVDC AT + 105 °C, SURGE = 15 V		
33.0	AA	510D336M010AA3D
68.0	BB	510D686M010BB3D
100.0	CC	510D107M010CC3D
150.0	CD	510D157M010CD3D
220.0	CG	510D227M010CG3D
16 WVDC AT + 105 °C, SURGE = 20 V		
22.0	AA	510D226M016AA3D
47.0	BB	510D476M016BB3D
68.0	CC	510D686M016CC3D
100.0	CD	510D107M016CD3D
150.0	CG	510D157M016CG3D
25 WVDC AT + 105 °C, SURGE = 35 V		
15.0	AA	510D156M025AA3D
33.0	BB	510D336M025BB3D
68.0	CD	510D686M025CD3D
100.0	CG	510D107M025CG3D
35 WVDC AT + 105 °C, SURGE = 45 V		
10.0	AA	510D106M035AA3D
22.0	BB	510D226M035BB3D
33.0	CC	510D336M035CC3D
47.0	CG	510D476M035CG3D
50 WVDC AT + 105 °C, SURGE = 65 V		
1.0	see 63 V Listing	-
1.5	see 63 V Listing	-
2.2	see 63 V Listing	-
3.3	see 63 V Listing	-
4.7	see 63 V Listing	-
6.8	AA	510D685M050AA3D
10.0	see 63 V Listing	-
15.0	BB	510D156M050BB3D
22.0	CC	510D226M050CC3D
63 WVDC AT + 105 °C, SURGE = 80 V		
1.0	AA	510D105M063AA3D
1.5	AA	510D155M063AA3D
2.2	AA	510D225M063AA3D
3.3	AA	510D335M063AA3D
4.7	AA	510D475M063AA3D
6.8	BB	510D685M063BB3D
10.0	BB	510D106M063BB3D
15.0	CC	510D156M063CC3D



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