Vishay Sprague



Aluminum Capacitors + 105 °C, Miniature, Radial Lead



FEATURES

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



1 ig. i	Component outline	

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	$\begin{array}{l} \mbox{2000 hours: } \Delta \mbox{ CAP } \leq 15 \ \% \ (6.3 \ WVDC \ to \ 10 \ WVDC), \\ \mbox{to } 63 \ WVDC) \ from \ initial \ measurement. \ \Delta \ DF \\ \leq 1.25 \ x \ initial \ specified \ limit. \\ \ \Delta \ DCL \\ \leq \ initial \ specified \ limit. \end{array}$			

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
СС	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)	
М	tolerance (M = \pm 20 %)	
016	voltage rating at 105 °C (016 = 16 V)	
АА	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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STANDARD RATINGS in incl	hes [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	
22.0	63 WVDC AT + 105 °C, SURGE = 80 V	3100220100300030	
1.0		510D105M063AA3D	
1.5	AA	510D155M063AA3D	
2.2	AA	510D225M063AA3D	
3.3	AA		
4.7		510D335M063AA3D	
	AA BB	510D475M063AA3D	
6.8		510D685M063BB3D	
10.0	BB	510D106M063BB3D	
15.0	CC	510D156M063CC3D	



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