

**TVA ATOM®** 

**Vishay Sprague** 

### Aluminum Capacitors + 85 °C, Miniature, Axial Lead



QUICK REFERENCE DATA			
DESCRIPTION	VALUE		
Nominal case size Ø D x L in mm	6.350 x 12.700 to 34.925 x 92.075		
Operating temperature			
6 WV <sub>DC</sub> to 100 WV <sub>DC</sub>	- 40 °C to + 85 °C		
101 WV <sub>DC</sub> to 475 WV <sub>DC</sub>	- 20 °C to + 85 °C		
500 $WV_{DC}$ and higher	20 °C to + 65 °C		
Rated capacitance range, $C_R$	1 μF to 15 000 μF		

### FEATURES

- Low leakage current
- Long shelf life
- Ideal for application in TV sets, auto radios, radio-phone combinations, electronic testing equipment
- Material categorization: For definitions of compliance please see <u>www.vishay.com/doc?99912</u>

#### ORDERING EXAMPLE (1)

Order by Distribution part no. Example: TVA1318.7

Note

 $^{(1)}\,$  For lead (Pb)-free/RoHS compliant products add the suffix "-E3" to the part no. Example: TVA1318.7-E3

DIMENSIONS in inches [millimeters]					
CASE CODE	D	L	CASE CODE	D	L
BA	0.250 [6.350]	0.500 [12.700]	FJ	0.625 [15.875]	1.625 [41.275]
BB	0.250 [6.350]	0.687 [17.450]	FK	0.485 [12.319]	1.750 [44.450]
СВ	0.312 [7.925]	0.687 [17.450]	GE	0.750 [19.050]	1.125 [28.575]
CC	0.312 [7.925]	0.812 [20.625]	GG	0.750 [19.050]	1.375 [34.925]
DC	0.375 [9.525]	0.812 [20.625]	GH	0.625 [15.875]	1.500 [38.100]
DD	0.375 [9.525]	0.937 [23.800]	GL	0.750 [19.050]	2.125 [53.975]
DF	0.375 [9.525]	1.250 [31.750]	GK	0.625 [15.875]	1.750 [44.450]
DH	0.375 [9.525]	1.500 [38.100]	GJ	0.750 [19.050]	1.625 [41.275]
EE	0.500 [12.700]	1.125 [28.575]	HG	0.875 [22.225]	1.375 [34.925]
EF	0.438 [11.125]	1.250 [31.750]	HJ	0.875 [22.225]	1.625 [41.275]
EG	0.500 [12.700]	1.375 [34.925]	НК	0.875 [22.225]	1.875 [47.625]
EH	0.438 [11.125]	1.500 [38.100]	HL	0.875 [22.225]	2.125 [53.975]
EJ	0.500 [12.700]	1.625 [41.275]	JB	1.0 [25.4]	3.375 [85.725]
FG	0.625 [15.875]	1.375 [34.925]	JJ	1.0 [25.4]	1.625 [41.275]
FH	0.485 [12.319]	1.500 [38.100]	JK	1.0 [25.4]	1.875 [47.625]
JL	1.0 [25.4]	2.125 [53.975]	KP	1.125 [28.575]	2.625 [66.675]
JN	1.0 [25.4]	2.375 [60.325]	KS	1.125 [28.575]	3.125 [79.375]
JP	1.0 [25.4]	2.625 [66.675]	LP	1.250 [31.750]	2.625 [66.675]
JR	1.0 [25.4]	2.875 [73.025]	LS	1.250 [31.750]	3.125 [79.375]
JS	1.0 [25.4]	3.125 [79.375]	LT	1.250 [31.750]	3.625 [92.075]
JU	1.0 [25.4]	3.625 [92.075]	MD	1.375 [34.925]	4.125 [104.775]
JW	1.0 [25.4]	3.875 [98.425]	MN	1.375 [34.925]	2.375 [60.325]
KL	1.125 [28.575]	2.125 [53.975]	MS	1.375 [34.925]	3.125 [79.375]
KN	1.125 [28.575]	2.375 [60.325]	MT	1.375 [34.925]	3.625 [92.075]



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ELECTRICAL DATA AND ORDERING INFORMATION			
CASE CODE	PART NUMBER <sup>(1)</sup>	LEAD DIAMETER (AWG)	
<b>6 V</b>		18	
		10	
GK		18	
BA	TVA1148	18	
BB	TVA1150	18	
		18	
		18	
		18	
		18	
		18	
		18 18	
		18	
		18	
		18	
		18	
		20	
LP		20	
25 \	WV <sub>DC</sub>	-	
BA	TVA1204	18	
BA	TVA1205	18	
BB	TVA1206	18	
СВ	TVA1206.1	18	
CC	TVA1207	18	
DC	TVA1207.5	18	
		18	
		18	
		18	
		18	
		18	
		18	
		20 20	
		20	
55 V	TVA1227	18	
		20	
		20	
	TVA1300	18	
BA	TVA1301	18	
BA	TVA1303	18	
BA	TVA1303.1	18	
BA	TVA1304	18	
BB		18	
BB		18	
BB		18	
		18	
	TVA1308	18	
	IVA1309.4	18	
		18	
		18 18	
		18	
		18	
		18	
		18	
	1741313		
GH	TVA1315.2	18	
	CASE CODE   6 V   CB   10 V   GK   0 D   DC   DD   DF   DF   DH   EH   EH   EH   BA   BA   BA   CB   CC   DF   DH   EH   BA   BA	CASE CODE   PART NUMBER <sup>(1)</sup> 6 WV <sub>DC</sub> CB   TVA1101.7     0 WV <sub>DC</sub> GK   TVA1129.5     GK   TVA1148   BB   TVA1160     CC   TVA1160   CC   TVA1160.6     DC   TVA1160.6   DC   TVA1162.2     DF   TVA1162.3   DF   TVA1162.3     DF   TVA1162.3   DH   TVA1163     EH   TVA1164   EH   TVA1175.2     FK   TVA1175.5   LP   TVA1175.5     LP   TVA1204   BA   TVA1205     BA   TVA1206   CG   CG     CC   TVA1207   DC   TVA1206     CB   TVA1206   CG   CG     DC   TVA1207.5   DC   TVA1207.5     DC   TVA1208   EF   TVA1208     EF   TVA1208   EF   TVA1209     FH   TVA1203   MK   TVA1203     MK   TVA1203   MK   TVA1203     MA	

#### Note

 $^{(1)}\,$  For other capacitance and voltage ratings, please see types 500D and 53D.

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ELECTRICAL DATA AND ORDERING INFORMATION				
CAPACITANCE (μF)	CASE CODE	PART NUMBER <sup>(1)</sup>	LEAD DIAMETER (AWG)	
SINGLE UNITS (POLARIZED)				
4500.0		WV <sub>DC</sub>		
1500.0	HL	TVA1318	20	
2000.0	KL KD	TVA1318.2	20	
2500.0 3000.0	KP LP	TVA1318.3	20 20	
5000.0	LP MS	TVA1318.4 TVA1318.7	20	
5000.0		WV <sub>DC</sub>	20	
1.0	BA	TVA1319.10	18	
1:0	100	) WV <sub>DC</sub>	18	
10.0	СВ	TVA1337	18	
50.0	DF	TVA1343	18	
100.0	EH	TVA1346	18	
250.0	GK	TVA1349	18	
500.0	KL	TVA1376	20	
000.0		WV <sub>DC</sub>	20	
1.0	BA	TVA1400	18	
2.0	BB	TVA1400.1	18	
4.0	CC	TVA1402	18	
5.0	CC	TVA1403	18	
8.0	DC	TVA1405	18	
10.0	DC	TVA1406	18	
16.0	DD	TVA1409	18	
20.0	DF	TVA1410	18	
25.0	DF	TVA1411	18	
30.0	EF	TVA1412	18	
40.0	EH	TVA1413	18	
50.0	EH	TVA1414	18	
80.0	GK	TVA1418	18	
100.0	GK	TVA1420	18	
150.0	HL	TVA1422	20	
200.0	JL	TVA1423	20	
300.0	KP	TVA1425	20	
		WV <sub>DC</sub>		
3.0	CC	TVA1436	18	
5.0	DC	TVA1438	18	
10.0	DD	TVA1441	18	
20.0	EF	TVA1442.1	18	
100.0	HL	TVA1445	20	
		WV <sub>DC</sub>	1	
4.0	DC	TVA1501	18	
10.0	DF	TVA1504	18	
12.0	EF	TVA1505	18	
20.0	EH	TVA1508	18	
30.0	GH	TVA1510	18	
40.0	GK	TVA1511	18	
50.0	HG	TVA1512	20	
60.0	HJ	TVA1513	20	
100.0	JK	TVA1522	20	
1.0	CB	TVA1540	18	
1.0	UD 250	) WV <sub>DC</sub>	10	
3.0	DD	TVA1600.1	18	
4.0	DD	TVA1601	18	
5.0	DF	TVA1601	18	
8.0	EH	TVA1602.5	18	
10.0	EH	TVA1603	18	
15.0	FK	TVA1604	18	
20.0	GK	TVA1607	18	
60.0	HL	TVA1608	20	
100.0	JP	TVA1613	20	
100.0	JF	1741020	20	

#### Note

<sup>(1)</sup> For other capacitance and voltage ratings, please see types 500D and 53D.

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CAPACITANCE (µF)	CASE CODE	PART NUMBER <sup>(1)</sup>	LEAD DIAMETER (AWG)
SINGLE UNITS (POLARIZED)	450	MR/	
1.0	450 DC	<b>WV<sub>DC</sub></b> TVA1700	18
2.0	DC DF	TVA1700	18
4.0	EH	TVA1701	18
5.0	EH	TVA1702	18
8.0	FK	TVA1703	18
10.0	GK	TVA1705	18
12.0	GK	TVA1706	18
20.0	HJ	TVA1709	20
30.0	HK	TVA1711	20
40.0	HL	TVA1712	20
50.0	KL	TVA1713	20
100.0	LS	TVA1718	20
60.0	KL	TVA1714	20
80.0	JP	TVA1716	20
	475	WV <sub>DC</sub>	
16.0	HJ	TVA1803.1	20
		WV <sub>DC</sub>	
20.0	HL	TVA1906	20
40.0	JN	TVA1908	20
30.0	JJ	TVA1907	20
		WV <sub>DC</sub>	
10.0	JR	TVA1963	20
20.0	JW	TVA1966	20
NON-POLARIZED			
	10	WV <sub>DC</sub>	
50.0	СВ	TVAN1117	18
<b>i</b>	25	WVDC	
10.0	BB	TVAN1204.1	18
16.0	BB	TVAN1204.3	18
25.0	CB	TVAN1205.1	18
50.0	CC	TVAN1206.1	18
100.0	DD	TVAN1207.1	18
	30	WV <sub>DC</sub>	
20.0	CB	TVAN1220	18
		WV <sub>DC</sub>	
2.0	BA	TVAN1301.1	18
3.0	BA	TVAN1302.1	18
5.0	BB	TVAN1303.1	18
8.0	BB	TVAN1303.4	18
10.0	CB	TVAN1304.1	18
25.0	DC	TVAN1306.1	18
50.0	DD	TVAN1308.1	18
100.0	DH	TVAN1310.1	18
		WV <sub>DC</sub>	
10.0	EJ	TVAN1333	18
20.0	FJ	TVAN1335	18
		WV <sub>DC</sub>	00
60.0	JP	TVAN1440	20
1.0		WV <sub>DC</sub>	40
1.0	EG	TVAN1560	18
E 0		WV <sub>DC</sub>	40
5.0	GJ	TVAN1602	18
20.0	400 JL	WV <sub>DC</sub> TVAN1652	20
20.0	JL	1 VAIN 1002	20

Note

 $^{(1)}\,$  For other capacitance and voltage ratings, please see types 500D and 53D.

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Vishay Intertechnology, Inc. hereby certifies that all its products that are identified as RoHS-Compliant fulfill the definitions and restrictions defined under Directive 2011/65/EU of The European Parliament and of the Council of June 8, 2011 on the restriction of the use of certain hazardous substances in electrical and electronic equipment (EEE) - recast, unless otherwise specified as non-compliant.

Please note that some Vishay documentation may still make reference to RoHS Directive 2002/95/EC. We confirm that all the products identified as being compliant to Directive 2002/95/EC conform to Directive 2011/65/EU.

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