

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



### 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 [www.vishay.com/doc?99912](http://www.vishay.com/doc?99912)



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> 101 WV <sub>DC</sub> to 475 WV <sub>DC</sub> 500 WV <sub>DC</sub> and higher	-40 °C to +85 °C -20 °C to +85 °C 20 °C to +65 °C
Rated capacitance range, C <sub>R</sub>	1 µF to 15 000 µF

### ORDERING EXAMPLE <sup>(1)</sup>

Order by Distribution part no. Example: TVA1318.7

#### Note

- <sup>(1)</sup> 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]
CB	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]	HK	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]



<b>ELECTRICAL DATA AND ORDERING INFORMATION</b>			
<b>CAPACITANCE (µF)</b>	<b>CASE CODE</b>	<b>PART NUMBER (1)</b>	<b>LEAD DIAMETER (AWG)</b>
<b>SINGLE UNITS (POLARIZED)</b>			
<b>6 WV<sub>DC</sub></b>			
200.0	CB	TVA1101.7	20
<b>10 WV<sub>DC</sub></b>			
5000.0	GK	TVA1129.5	20
<b>16 WV<sub>DC</sub></b>			
25.0	BA	TVA1148	20
50.0	BB	TVA1150	20
100.0	CB	TVA1160	20
200.0	CC	TVA1160.6	20
250.0	DC	TVA1161	20
500.0	DD	TVA1162	20
600.0	DF	TVA1162.2	20
800.0	DF	TVA1162.3	20
1000.0	DH	TVA1163	20
1200.0	EH	TVA1164	20
1500.0	EH	TVA1175.2	20
2000.0	FK	TVA1170	20
3000.0	GH	TVA1175	20
5000.0	JL	TVA1175.5	20
10 000.0	LP	TVA1175.8	20
<b>25 WV<sub>DC</sub></b>			
10.0	BA	TVA1204	20
25.0	BA	TVA1205	20
50.0	BB	TVA1206	20
75.0	CB	TVA1206.1	20
100.0	CC	TVA1207	20
150.0	DC	TVA1207.5	20
200.0	DC	TVA1207.7	20
250.0	DD	TVA1208	20
500.0	EF	TVA1209	20
1000.0	FH	TVA1211	20
1500.0	GH	TVA1212	20
2000.0	GK	TVA1213	20
2500.0	JK	TVA1213.5	20
5000.0	KP	TVA1214.5	18
<b>35 WV<sub>DC</sub></b>			
500.0	EH	TVA1227	20
5500.0	JB	TVA1229	18
<b>50 WV<sub>DC</sub></b>			
1.0	BA	TVA1300	20
2.0	BA	TVA1301	20
5.0	BA	TVA1303	20
5.0	BA	TVA1303.1	20
10.0	BA	TVA1304	20
15.0	BB	TVA1305	20
20.0	BB	TVA1305.5	20
25.0	BB	TVA1306	20
40.0	CC	TVA1306.5	20
50.0	CC	TVA1308	20
75.0	DC	TVA1309.4	20
100.0	DC	TVA1310	20
150.0	DD	TVA1311	20
200.0	DF	TVA1311.5	20
250.0	DH	TVA1312	20
300.0	EF	TVA1312.1	20
400.0	FH	TVA1313	20
500.0	FH	TVA1315	20
600.0	GH	TVA1315.2	20
1000.0	GK	TVA1316	20

**Note**

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



ELECTRICAL DATA AND ORDERING INFORMATION			
CAPACITANCE (μF)	CASE CODE	PART NUMBER (1)	LEAD DIAMETER (AWG)
<b>SINGLE UNITS (POLARIZED)</b>			
<b>50 WV<sub>DC</sub></b>			
1500.0	HL	TVA1318	18
2000.0	KL	TVA1318.2	18
2500.0	KP	TVA1318.3	18
3000.0	LP	TVA1318.4	18
5000.0	MS	TVA1318.7	18
<b>63 WV<sub>DC</sub></b>			
1.0	BA	TVA1319.10	20
<b>100 WV<sub>DC</sub></b>			
10.0	CB	TVA1337	20
50.0	DF	TVA1343	20
100.0	EH	TVA1346	20
250.0	GK	TVA1349	20
500.0	KL	TVA1376	20
<b>150 WV<sub>DC</sub></b>			
1.0	BA	TVA1400	20
2.0	BB	TVA1400.1	20
4.0	CC	TVA1402	20
5.0	CC	TVA1403	20
8.0	DC	TVA1405	20
10.0	DC	TVA1406	20
16.0	DD	TVA1409	20
20.0	DF	TVA1410	20
25.0	DF	TVA1411	20
30.0	EF	TVA1412	20
40.0	EH	TVA1413	20
50.0	EH	TVA1414	20
80.0	GK	TVA1418	20
100.0	GK	TVA1420	20
150.0	HL	TVA1422	20
200.0	JL	TVA1423	18
300.0	KP	TVA1425	18
<b>200 WV<sub>DC</sub></b>			
3.0	CC	TVA1436	20
5.0	DC	TVA1438	20
10.0	DD	TVA1441	20
20.0	EF	TVA1442.1	20
100.0	HL	TVA1445	18
<b>250 WV<sub>DC</sub></b>			
4.0	DC	TVA1501	20
10.0	DF	TVA1504	20
12.0	EF	TVA1505	20
20.0	EH	TVA1508	20
30.0	GH	TVA1510	20
40.0	GK	TVA1511	20
50.0	HG	TVA1512	18
60.0	HJ	TVA1513	18
100.0	JK	TVA1522	18
<b>300 WV<sub>DC</sub></b>			
1.0	CB	TVA1540	20
<b>350 WV<sub>DC</sub></b>			
3.0	DD	TVA1600.1	20
4.0	DF	TVA1601	20
5.0	DF	TVA1602.5	20
8.0	EH	TVA1603	20
10.0	EH	TVA1604	20
15.0	FK	TVA1607	20
20.0	GK	TVA1608	20
60.0	HL	TVA1613	18
100.0	JP	TVA1620	18

**Note**

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



ELECTRICAL DATA AND ORDERING INFORMATION			
CAPACITANCE (µF)	CASE CODE	PART NUMBER (1)	LEAD DIAMETER (AWG)
<b>SINGLE UNITS (POLARIZED)</b>			
<b>450 WV<sub>DC</sub></b>			
1.0	DC	TVA1700	20
2.0	DF	TVA1701	20
4.0	EH	TVA1702	20
5.0	EH	TVA1703	20
8.0	FK	TVA1704	20
10.0	GK	TVA1705	20
12.0	GK	TVA1706	20
20.0	HJ	TVA1709	18
30.0	HK	TVA1711	18
40.0	HL	TVA1712	18
50.0	KL	TVA1713	18
100.0	LS	TVA1718	18
60.0	KL	TVA1714	18
80.0	JP	TVA1716	18
<b>475 WV<sub>DC</sub></b>			
16.0	HJ	TVA1803.1	18
<b>500 WV<sub>DC</sub></b>			
20.0	HL	TVA1906	18
40.0	JN	TVA1908	18
30.0	JJ	TVA1907	18
<b>600 WV<sub>DC</sub></b>			
10.0	JR	TVA1963	18
20.0	JW	TVA1966	18
<b>NON-POLARIZED</b>			
<b>10 WV<sub>DC</sub></b>			
50.0	CB	TVAN1117	20
<b>25 WV<sub>DC</sub></b>			
10.0	BB	TVAN1204.1	20
16.0	BB	TVAN1204.3	20
25.0	CB	TVAN1205.1	20
50.0	CC	TVAN1206.1	20
100.0	DD	TVAN1207.1	20
<b>30 WV<sub>DC</sub></b>			
20.0	CB	TVAN1220	20
<b>50 WV<sub>DC</sub></b>			
2.0	BA	TVAN1301.1	20
3.0	BA	TVAN1302.1	20
5.0	BB	TVAN1303.1	20
8.0	BB	TVAN1303.4	20
10.0	CB	TVAN1304.1	20
25.0	DC	TVAN1306.1	20
50.0	DD	TVAN1308.1	20
100.0	DH	TVAN1310.1	20
<b>100 WV<sub>DC</sub></b>			
10.0	EJ	TVAN1333	18
20.0	FJ	TVAN1335	18
<b>200 WV<sub>DC</sub></b>			
60.0	JP	TVAN1440	18
<b>300 WV<sub>DC</sub></b>			
1.0	EG	TVAN1560	18
<b>350 WV<sub>DC</sub></b>			
5.0	GJ	TVAN1602	18
<b>400 WV<sub>DC</sub></b>			
20.0	JL	TVAN1652	18

Note

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

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.



## **Disclaimer**

ALL PRODUCT, PRODUCT SPECIFICATIONS AND DATA ARE SUBJECT TO CHANGE WITHOUT NOTICE TO IMPROVE RELIABILITY, FUNCTION OR DESIGN OR OTHERWISE.

Vishay Intertechnology, Inc., its affiliates, agents, and employees, and all persons acting on its or their behalf (collectively, "Vishay"), disclaim any and all liability for any errors, inaccuracies or incompleteness contained in any datasheet or in any other disclosure relating to any product.

Vishay makes no warranty, representation or guarantee regarding the suitability of the products for any particular purpose or the continuing production of any product. To the maximum extent permitted by applicable law, Vishay disclaims (i) any and all liability arising out of the application or use of any product, (ii) any and all liability, including without limitation special, consequential or incidental damages, and (iii) any and all implied warranties, including warranties of fitness for particular purpose, non-infringement and merchantability.

Statements regarding the suitability of products for certain types of applications are based on Vishay's knowledge of typical requirements that are often placed on Vishay products in generic applications. Such statements are not binding statements about the suitability of products for a particular application. It is the customer's responsibility to validate that a particular product with the properties described in the product specification is suitable for use in a particular application. Parameters provided in datasheets and / or specifications may vary in different applications and performance may vary over time. All operating parameters, including typical parameters, must be validated for each customer application by the customer's technical experts. Product specifications do not expand or otherwise modify Vishay's terms and conditions of purchase, including but not limited to the warranty expressed therein.

Except as expressly indicated in writing, Vishay products are not designed for use in medical, life-saving, or life-sustaining applications or for any other application in which the failure of the Vishay product could result in personal injury or death. Customers using or selling Vishay products not expressly indicated for use in such applications do so at their own risk. Please contact authorized Vishay personnel to obtain written terms and conditions regarding products designed for such applications.

No license, express or implied, by estoppel or otherwise, to any intellectual property rights is granted by this document or by any conduct of Vishay. Product names and markings noted herein may be trademarks of their respective owners.