

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

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

**Note**

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



<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>50 WV<sub>DC</sub></b>			
1500.0	HL	TVA1318	20
2000.0	KL	TVA1318.2	20
2500.0	KP	TVA1318.3	20
3000.0	LP	TVA1318.4	20
5000.0	MS	TVA1318.7	20
<b>63 WV<sub>DC</sub></b>			
1.0	BA	TVA1319.10	18
<b>100 WV<sub>DC</sub></b>			
10.0	CB	TVA1337	18
50.0	DF	TVA1343	18
100.0	EH	TVA1346	18
250.0	GK	TVA1349	18
500.0	KL	TVA1376	20
<b>150 WV<sub>DC</sub></b>			
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
<b>200 WV<sub>DC</sub></b>			
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
<b>250 WV<sub>DC</sub></b>			
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
<b>300 WV<sub>DC</sub></b>			
1.0	CB	TVA1540	18
<b>350 WV<sub>DC</sub></b>			
3.0	DD	TVA1600.1	18
4.0	DF	TVA1601	18
5.0	DF	TVA1602.5	18
8.0	EH	TVA1603	18
10.0	EH	TVA1604	18
15.0	FK	TVA1607	18
20.0	GK	TVA1608	18
60.0	HL	TVA1613	20
100.0	JP	TVA1620	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>450 WV<sub>DC</sub></b>			
1.0	DC	TVA1700	18
2.0	DF	TVA1701	18
4.0	EH	TVA1702	18
5.0	EH	TVA1703	18
8.0	FK	TVA1704	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
<b>475 WV<sub>DC</sub></b>			
16.0	HJ	TVA1803.1	20
<b>500 WV<sub>DC</sub></b>			
20.0	HL	TVA1906	20
40.0	JN	TVA1908	20
30.0	JJ	TVA1907	20
<b>600 WV<sub>DC</sub></b>			
10.0	JR	TVA1963	20
20.0	JW	TVA1966	20
<b>NON-POLARIZED</b>			
<b>10 WV<sub>DC</sub></b>			
50.0	CB	TVAN1117	18
<b>25 WV<sub>DC</sub></b>			
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
<b>30 WV<sub>DC</sub></b>			
20.0	CB	TVAN1220	18
<b>50 WV<sub>DC</sub></b>			
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
<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	20
<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	20

**Note**

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



## 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.

## Material Category Policy

**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.**

**Vishay Intertechnology, Inc. hereby certifies that all its products that are identified as Halogen-Free follow Halogen-Free requirements as per JEDEC JS709A standards. Please note that some Vishay documentation may still make reference to the IEC 61249-2-21 definition. We confirm that all the products identified as being compliant to IEC 61249-2-21 conform to JEDEC JS709A standards.**



Компания «ЭлектроПласт» предлагает заключение долгосрочных отношений при поставках импортных электронных компонентов на взаимовыгодных условиях!

Наши преимущества:

- Оперативные поставки широкого спектра электронных компонентов отечественного и импортного производства напрямую от производителей и с крупнейших мировых складов;
- Поставка более 17-ти миллионов наименований электронных компонентов;
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- Лицензия ФСБ на осуществление работ с использованием сведений, составляющих государственную тайну;
- Поставка специализированных компонентов (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Aeroflex, Peregrine, Syfer, Eurofarad, Texas Instrument, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

Помимо этого, одним из направлений компании «ЭлектроПласт» является направление «Источники питания». Мы предлагаем Вам помощь Конструкторского отдела:

- Подбор оптимального решения, техническое обоснование при выборе компонента;
- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



#### Как с нами связаться

**Телефон:** 8 (812) 309 58 32 (многоканальный)

**Факс:** 8 (812) 320-02-42

**Электронная почта:** [org@eplast1.ru](mailto:org@eplast1.ru)

**Адрес:** 198099, г. Санкт-Петербург, ул. Калинина, дом 2, корпус 4, литера А.