

## 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 <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]



**ELECTRICAL DATA AND ORDERING INFORMATION**

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

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

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

**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 and agree to fully indemnify and hold Vishay and its distributors harmless from and against any and all claims, liabilities, expenses and damages arising or resulting in connection with such use or sale, including attorneys fees, even if such claim alleges that Vishay or its distributor was negligent regarding the design or manufacture of the part. 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.**