

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

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

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 WVdc to 100 WVdc 101 WVdc to 475 WVdc 500 WVdc and higher	- 40 °C to + 85 °C - 20 °C to + 85 °C 20 °C to + 65 °C
Rated capacitance range, Cr	1 µF to 15 000 µF

DIMENSIONS in inches [millimeters]

CASE CODE	D	L	CASE CODE	D	L	Ripple Current @ 120Hz 85C
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)	LEAD DIAMETER (AWG)
SINGLE UNITS (POLARIZED)			
6 WVdc			
200.0	CB	TVA1101.7	18
10 WVdc			
5000.0	GK	TVA1129.5	18
16 WVdc			
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
25 WVdc			
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
35 WVdc			
500.0	EH	TVA1227	18
5500.0	JB	TVA1229	20
50 WVdc			
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.

ELECTRICAL DATA AND ORDERING INFORMATION

CAPACITANCE (µF)	CASE CODE	PART NUMBER (1)	LEAD DIAMETER (AWG)
SINGLE UNITS (POLARIZED)			
50 WVdc			
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
63 WVdc			
1.0	BA	TVA1319.10	18
100 WVdc			
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
150 WVdc			
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
200 WVdc			
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
250 WVdc			
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
300 WVdc			
1.0	CB	TVA1540	18
350 WVdc			
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)	
SINGLE UNITS (POLARIZED)				
450 WVdc				
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	0.2106
30.0	HK	TVA1711	20	0.2739
40.0	HL	TVA1712	20	0.2817
50.0	KL	TVA1713	20	0.4399
100.0	LS	TVA1718	20	0.8072
60.0	KL	TVA1714	20	0.4817
80.0	JP	TVA1716	20	0.4865
475 WVdc				
16.0	HJ	TVA1803.1	20	0.2
500 WVdc				
20.0	HL	TVA1906	20	0.2267
40.0	JN	TVA1908	20	0.3296
30.0	JJ	TVA1907	20	0.2222
600 WVdc				
10.0	JR	TVA1963	20	0.2144
20.0	JW	TVA1966	20	0.3593
NON-POLARIZED				
10 WVdc				
50.0	CB	TVAN1117	18	
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 WVdc				
20.0	CB	TVAN1220	18	
50 WVdc				
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	
100 WVdc				
10.0	EJ	TVAN1333	18	
20.0	FJ	TVAN1335	18	
200 WVdc				
60.0	JP	TVAN1440	20	
300 WVdc				
1.0	EG	TVAN1560	18	
350 WVdc				
5.0	GJ	TVAN1602	18	
400 WVdc				
20.0	JL	TVAN1652	20	

Note

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

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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.

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