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

Pb-free Available

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_{DC} to 100 WV_{DC}	-40 °C to +85 °C
101 WV_{DC} to 475 WV_{DC}	-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

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]

For technical questions, contact: aluminumcaps4@vishay.com

THIS DOCUMENT IS SUBJECT TO CHANGE WITHOUT NOTICE. THE PRODUCTS DESCRIBED HEREIN AND THIS DOCUMENT ARE SUBJECT TO SPECIFIC DISCLAIMERS, SET FORTH AT www.vishay.com/doc?91000

ELECTRICAL DATA AND ORDERING INFORMATION

CAPACITANCE (µF)	CASE CODE	PART NUMBER [1]	LEAD DIAMETER (AWG)
SINGLE UNITS (POLARIZED)			
6 WV_{DC}			
200.0	CB	TVA1101.7	20
10 WV_{DC}			
5000.0	GK	TVA1129.5	20
16 WV_{DC}			
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
25 WV_{DC}			
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
35 WV_{DC}			
500.0	EH	TVA1227	20
5500.0	JB	TVA1229	18
50 WV_{DC}			
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.

For technical questions, contact: aluminumcaps4@vishay.com
THIS DOCUMENT IS SUBJECT TO CHANGE WITHOUT NOTICE. THE PRODUCTS DESCRIBED HEREIN AND THIS DOCUMENT ARE SUBJECT TO SPECIFIC DISCLAIMERS, SET FORTH AT www.vishay.com/doc?91000

ELECTRICAL DATA AND ORDERING INFORMATION

CAPACITANCE (µF)	CASE CODE	PART NUMBER [1]	LEAD DIAMETER (AWG)
SINGLE UNITS (POLARIZED)			
		50 WV_{DC}	
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
		63 WV_{DC}	
1.0	BA	TVA1319.10	20
		100 WV_{DC}	
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
		150 WV_{DC}	
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
		200 WV_{DC}	
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
		250 WV_{DC}	
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
		300 WV_{DC}	
1.0	CB	TVA1540	20
		350 WV_{DC}	
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.

For technical questions, contact: aluminumcaps4@vishay.com
THIS DOCUMENT IS SUBJECT TO CHANGE WITHOUT NOTICE. THE PRODUCTS DESCRIBED HEREIN AND THIS DOCUMENT ARE SUBJECT TO SPECIFIC DISCLAIMERS, SET FORTH AT www.vishay.com/doc?91000

ELECTRICAL DATA AND ORDERING INFORMATION			
CAPACITANCE (µF)	CASE CODE	PART NUMBER [1]	LEAD DIAMETER (AWG)
SINGLE UNITS (POLARIZED)			
450 WV_{DC}			
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
475 WV_{DC}			
16.0	HJ	TVA1803.1	18
500 WV_{DC}			
20.0	HL	TVA1906	18
40.0	JN	TVA1908	18
30.0	JJ	TVA1907	18
600 WV_{DC}			
10.0	JR	TVA1963	18
20.0	JW	TVA1966	18
NON-POLARIZED			
10 WV_{DC}			
50.0	CB	TVAN1117	20
25 WV_{DC}			
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
30 WV_{DC}			
20.0	CB	TVAN1220	20
50 WV_{DC}			
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
100 WV_{DC}			
10.0	EJ	TVAN1333	18
20.0	FJ	TVAN1335	18
200 WV_{DC}			
60.0	JP	TVAN1440	18
300 WV_{DC}			
1.0	EG	TVAN1560	18
350 WV_{DC}			
5.0	GJ	TVAN1602	18
400 WV_{DC}			
20.0	JL	TVAN1652	18

Note

[1] For other capacitance and voltage ratings, please see types 500D and 53D.

For technical questions, contact: aluminumcaps4@vishay.com
THIS DOCUMENT IS SUBJECT TO CHANGE WITHOUT NOTICE. THE PRODUCTS DESCRIBED HEREIN AND THIS DOCUMENT ARE SUBJECT TO SPECIFIC DISCLAIMERS, SET FORTH AT www.vishay.com/doc?91000

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.

Unikeyic Electronics

Global Electronic Components Distributor

Click to view pricing, inventory, delivery, and lifecycle information:

Vishay Intertechnology:

SMBJ12CA-E3/52 SS2FN6HM3/H CRCW040213K0FKTD PR03000204700JAC00 RCL12183R30FKEK ISOA200R11003JT CRCW1206270KJNEA CCF5510K0FKE36 CRCW2512150RFKEGHP PTCCL05H280HTE SQD50P08-28_GE3 MSS2P3-M3/89A 1.5SMC91A-E3/57T 293D337X96R3D2T-E3 BRT13-H-X006 CRCW08051M00FKEA ILHB1806ER600V PR02000204709JA100 WSL2512R0300FTB LTO150H2R200JTE3 PR01000101603JR500 PTF5610K000BYEK SE20DLGHM3/I SM8S43AHE3_A/I SUD50P04-08-GE3 VS-50RIA60 WSL27265L000FEB LTO150H470R0JTE3 CRCW1206510KFKEA RS0105R000FE12