

**Vishay Sprague** 

## Aluminum Capacitors Little-Lytic™ Electrolytics

30D +	
TE 1211	

QUICK REFERENCE DATA		
DESCRIPTION	VALUE	
Operating temperature	-40 °C to +105 °C	
Tolerance on C <sub>R</sub>	G = + 75 %, - 10 % and F = + 50 %, - 10 %	
Ripple current	10 mA to 600 mA max. at 120 Hz, depending upon capacitance and voltage.	
Life validation test 2000 h at +85 °C	After test, capacitance value shall not have changed by more than ± 20 %, the equivalent series resistance in ohms shall not have exceeded 150 % of initial requirement and the leakage current shall not have exceeded the initial requirement.	
DC leakage current	Maximum DC leakage current at +25 °C for all capacitors is 15 μA, except units in case code DD, which is 15.8 μA.	
Shelf test 250 h at +85 °C, with no voltage applied	The capacitance and equivalent series resistance shall meet the initial requirements and the DC leakage current shall not exceed 300 % of the initial requirement.	

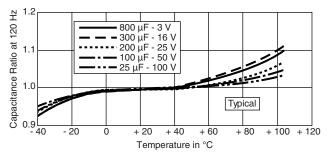
#### FEATURES

 Proven dependable performance in the industrial and electronic equipment with either transistor or modified electron-tube circuits



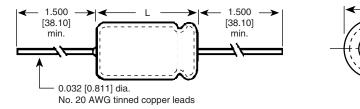
- All terminal connections welded, eliminating possibility of open or intermittent contacts occasionally found in pressure joints of conventional capacitors
- Superior in size, performance characteristics, shelf life, construction and reliability
- Metal-encased with clear plastic outer insulating sleeve
- Excellent circuit performance when used as coupling capacitors
- Minimum drain and long battery life when used in battery bypass applications
- Better performance under life test than most miniature aluminum electrolytic capacitors
- Axial lead
- Material categorization: for definitions of compliance please see <u>www.vishay.com/doc?99912</u>

### **CAPACITANCE VS. TEMPERATURE**



DIMENSIONS in millimeters			
CASE CODE	D	L	
BA	$6.3 \pm 0.7$	13.0 ± 1.4	
BB	$6.3 \pm 0.7$	17.5 ± 1.7	
CB	$8.0 \pm 0.6$	17.5 ± 1.7	
CC	$8.0 \pm 0.6$	20.5 ± 1.8	
DB	9.0 ± 0.7	17.5 ± 1.7	
DC	9.0 ± 0.7	20.5 ± 1.8	
DD	9.0 ± 0.7	24.0 ± 1.5	
DF	9.0 ± 0.7	32.0 ± 1.5	
DH	9.0 ± 0.7	38.0 ± 1.8	

### DIMENSIONS AND AVAILABLE FORMS





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1 For technical questions, contact: <u>aluminumcaps4@vishay.com</u> Document Number: 42042

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### **ORDERING EXAMPLE**

Order by distribution part no. Example: TE1055

#### Note

• For lead (Pb)-free/RoHS compliant products add the suffix "-E3" to the shortened Distribution part. no.

Example: TE1055-E3

#### Note

• For lead (Pb)-free/RoHS compliant products add the suffix "E3" to the standard OEM part no.

Example: 30D256G003BA3AE3

ECTRICAL DATA AND ORDERING INFORMATION			
CAPACITANCE (μF)	CASE CODE	DISTRIBUTOR PART NUMBER	DESCRIPTOR PART NUMBER
	3	WV <sub>DC</sub>	
1.0	-	See 50 WV <sub>DC</sub> listing	-
2.0	-	See 50 WV <sub>DC</sub> listing	-
3.0	-	See 50 WV <sub>DC</sub> listing	-
4.0	-	See 50 WV <sub>DC</sub> listing	-
5.0	-	See 25 WV <sub>DC</sub> listing	-
6.0	-	See 25 WV <sub>DC</sub> listing	-
8.0	-	See 25 WV <sub>DC</sub> listing	-
10.0	-	See 16 WV <sub>DC</sub> listing	-
15.0	-	See 12 WV <sub>DC</sub> listing	-
20.0	-	See 6 WV <sub>DC</sub> listing	_
25.0	BA	TE1055	30D256G003BA3A
50.0	-	See 6 WV <sub>DC</sub> listing	-
75.0	-	See 6 WV <sub>DC</sub> listing	-
100.0	СВ	TE1059.5	30D107G003CB3A
200.0	CC	TE1064	30D207G003CC3A
300.0	DC	TE1066	30D307G003DC3A
500.0	DF	TE1068	30D507G003DF3A
	6	WV <sub>DC</sub>	
1.0	_	See 50 WV <sub>DC</sub> listing	-
2.0	-	See 50 WV <sub>DC</sub> listing	-
3.0	-	See 50 WV <sub>DC</sub> listing	-
4.0	-	See 50 WV <sub>DC</sub> listing	-
5.0	_	See 25 WV <sub>DC</sub> listing	-
6.0	-	See 25 WV <sub>DC</sub> listing	-
8.0	-	See 25 WV <sub>DC</sub> listing	-
10.0	-	See 16 WV <sub>DC</sub> listing	-
15.0	-	See 12 WV <sub>DC</sub> listing	-
20.0	BA	TE1090	30D206G006BA3A
25.0	-	See 16 WV <sub>DC</sub> listing	-
35.0	BB	TE1093	30D356G006BB3A
50.0	BB	TE1100	30D506G006BB3A
75.0	СВ	TE1101.5	30D756G006CB3A
100.0	-	See 12 WV <sub>DC</sub> listing	-
200.0	DC	TE1104	30D207G006DC3A
250.0	DD	TE1105	30D257G006DD3A
300.0	DD	TE1106	30D307G006DD3A
400.0	DF	TE1107	30D407G006DF3A
500.0	DH	TE1107.5	30D507G006DH3A
600.0	DH	TE1108.5	30D607G006DH3A

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ELECTRICAL DATA AND ORDERING INFORMATION			
CAPACITANCE (µF)	CASE CODE	DISTRIBUTOR PART NUMBER	DESCRIPTOR PART NUMBER
	1:	2 WV <sub>DC</sub>	
1.0	-	See 50 $WV_{DC}$ listing	-
2.0	-	See 50 $WV_{DC}$ listing	-
3.0	-	See 50 $WV_{DC}$ listing	-
4.0	-	See 50 $WV_{DC}$ listing	-
5.0	-	See 25 WV <sub>DC</sub> listing	-
6.0	-	See 25 WV <sub>DC</sub> listing	-
8.0	-	See 25 WV <sub>DC</sub> listing	-
10.0	-	See 16 WV <sub>DC</sub> listing	-
15.0	BA	TE1129	30D156G012BA3A
20.0	-	See 16 WV <sub>DC</sub> listing	-
25.0	-	See 16 WV <sub>DC</sub> listing	-
50.0	-	See 16 WV <sub>DC</sub> listing	-
60.0	СВ	TE1133.5	30D606G012CB3A
75.0	-	See 16 WV <sub>DC</sub> listing	-
100.0	CC	TE1135	30D107G012CC3A
150.0	-	See 16 WV <sub>DC</sub> listing	_
200.0	-	See 16 WV <sub>DC</sub> listing	_
250.0	_	See 16 WV <sub>DC</sub> listing	_
290.0	DF	TE1139	30D297G012DF3A
		6 WV <sub>DC</sub>	
1.0	-	See 50 WV <sub>DC</sub> listing	-
2.0	_	See 50 WV <sub>DC</sub> listing	_
3.0	_	See 50 WV <sub>DC</sub> listing	_
4.0	_	See 50 WV <sub>DC</sub> listing	_
5.0	_	See 25 WV <sub>DC</sub> listing	_
6.0	_	See 25 WV <sub>DC</sub> listing	-
8.0	_	See 25 WV <sub>DC</sub> listing	-
10.0	BA	TE1155	30D106G016BA3A
15.0	-	See 25 WV <sub>DC</sub> listing	-
20.0	BB	TE1157	30D206G016BB3A
25.0	BB	TE1157.1	30D256G016BB3A
30.0	-	See 25 WV <sub>DC</sub> listing	-
35.0	-	See 25 WV <sub>DC</sub> listing	-
50.0	СВ	TE1160	30D506G016CB3A
75.0	CC	TE1161	30D756G016CC3A
100.0	DC	TE1162	30D107G016DC3A
150.0	DD	TE1163	30D157G016DD3A
200.0	DF	TE1164	30D207G016DF3A
250.0	DF	TE1164.5	30D257G016DF3A
300.0	DH	TE1165.5	30D307G016DH3A
350.0	DH	TE1166	30D357G016DH3A

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ELECTRICAL DATA AND ORDERING INFORMATION			
CAPACITANCE (μF)	CASE CODE	DISTRIBUTOR PART NUMBER	DESCRIPTOR PART NUMBER
		WV <sub>DC</sub>	
1.0	-	See 50 WV <sub>DC</sub> listing	-
2.0 3.0	-	See 50 WV <sub>DC</sub> listing	-
	-	See 50 WV <sub>DC</sub> listing	-
4.0 5.0	-	See 50 WV <sub>DC</sub> listing TE1202	-
6.0	BA BA	TE1202	30D505G025BA3A 30D605G025BA3A
8.0	BABA	TE1203.5	30D805G025BA3A
10.0	BAB	TE1203.5	30D106G025BB3A
15.0	BB	TE1204	30D156G025BB3A
20.0	CB	TE1205	30D206G025CB3A
25.0	CB	TE1200	30D256G025CB3A
30.0	CB	TE1207	30D306G025CB3A
35.0	CB	TE1207.5	30D356G025CB3A
50.0	CC	TE1209	30D506G025CC3A
75.0	DC	TE1203	30D756G025DC3A
100.0	DD	TE1210	30D107G025DD3A
150.0	DD	TE1212	30D157G025DF3A
200.0	DH	TE1212	30D207G025DH3A
200.0		WV <sub>DC</sub>	00020100230104
1.0	BA	TE1300	30D105G050BA3A
2.0	BA	TE1301	30D205G050BA3A
3.0	BA	TE1302	30D305G050BA3A
4.0	BA	TE1302.1	30D405G050BA3A
5.0	BB	TE1303	30D505G050BB3A
6.0	BB	TE1303.1	30D605G050BB3A
8.0	BB	TE1303.3	30D805G050BB3A
10.0	СВ	TE1304	30D106G050CB3A
15.0	СВ	TE1304.2	30D156G050CB3A
20.0	CC	TE1305	30D206G050CC3A
25.0	CC	TE1305.5	30D256G050CC3A
35.0	DC	TE1306	30D356G050DC3A
50.0	DD	TE1307	30D506G050DD3A
75.0	DF	TE1308	30D756G050DF3A
100.0	DH	TE1309	30D107G050DH3A
	100	WV <sub>DC</sub>	
1.0	BA	TE1400	30D105F100BA3A
2.0	BB	TE1401	30D205F100BB3A
3.0	СВ	TE1402	30D305F100CB3A
4.0	СВ	TE1403	30D405F100CB3A
5.0	CC	TE1404	30D505F100CC3A
10.0	DC	TE1407	30D106F100DC3A
15.0	DD	TE1408	30D156F100DD3A
20.0	DF	TE1409	30D206F100DF3A
25.0	DH	TE1410	30D256F100DH3A
30.0	DH	TE1411	30D306F100DH3A
	150	WV <sub>DC</sub>	
1.0	BA	TE1500	30D105F150BA3A
2.0	BB	TE1501	30D205F150BB3A
3.0	СВ	TE1502	30D305F150CB3A
4.0	CC	TE1503	30D405F150CC3A
5.0	CC	TE1504	30D505F150CC3A
8.0	DC	TE1506	30D805F150DC3A
10.0	DD	TE1507	30D106F150DD3A
15.0	DF	TE1508.1	30D156F150DF3A
20.0	DH	TE1509	30D206F150DH3A

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