

Aluminum Capacitors + 85 °C, Snap-In



FEATURES

- General purpose
- Polarized aluminum electrolytic capacitors, non-solid electrolyte
- High ripple capability
- Compliant to RoHS Directive 2002/95/EC


RoHS
COMPLIANT

QUICK REFERENCE DATA

DESCRIPTION	VALUE
Nominal case size Ø D x L in inches (mm)	1.38 x 3.15 (35.0 x 80.0)
Operating temperature	- 40 °C to + 85 °C
Rated capacitance range, CR	82 µF to 56 000 µF
Tolerance on CR	- 10 %, + 30 %
Rated voltage range, UR	6.3 WV _{DC} to 250 WV _{DC}
Termination	Snap mount
Life validation test 2000 h at 85 °C	$\Delta CAP \leq 15\%$ from initial measurement. $\Delta ESR \leq 1.5 \times$ initial specified limit. $\Delta DCL \leq$ initial specified limit
Shelf life 500 h at 85 °C	$\Delta CAP \leq 15\%$ from initial measurement. $\Delta ESR \leq 1.3 \times$ initial specified limit. $\Delta DCL \leq 2 \times$ initial specified limit
DC leakage current	$I = K \sqrt{CV}$ $K = 4.0$ at + 25 °C I in µA, C in µF, V in Volts

RIPPLE CURRENT MULTIPLIERS

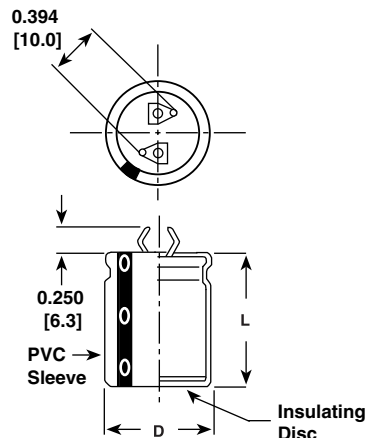
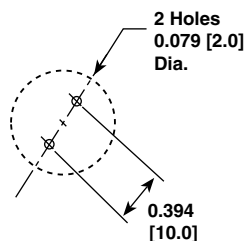
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DIMENSIONS in inches (millimeters)

CASE CODE	DIAMETER	LENGTH	CASE CODE	DIAMETER	LENGTH
	D + 0.039 - 0 (+ 1.0/- 0)	L ± 0.079 (2.0)		D + 0.039/- 0 (+ 1.0/- 0)	L ± 0.079 (2.0)
JA	1.00 (25.0)	1.00 (25.0)	KD	1.18 (30.0)	1.57 (40.0)
JB	1.00 (25.0)	1.18 (30.0)	KE	1.18 (30.0)	2.00 (50.0)
JC	1.00 (25.0)	1.38 (35.0)	MB	1.38 (35.0)	1.18 (30.0)
JD	1.00 (25.0)	1.57 (40.0)	MC	1.38 (35.0)	1.38 (35.0)
JE	1.00 (25.0)	2.00 (50.0)	MD	1.38 (35.0)	1.57 (40.0)
KA	1.18 (30.0)	1.00 (25.0)	ME	1.38 (35.0)	2.00 (50.0)
KB	1.18 (30.0)	1.18 (30.0)	MF	1.38 (35.0)	2.50 (63.0)
KC	1.18 (30.0)	1.38 (35.0)	MG	1.38 (35.0)	3.18 (80.0)

DIMENSIONAL AND AVAILABLE FORMS

STYLE D



ORDERING EXAMPLE

Electrolytic capacitor 80D series: 80D122P200ME2DE3

DESCRIPTION

CODE	EXPLANATION
80D	Product type
122	Capacitance value (1200 μ F)
P	Tolerance (P = - 10 %/+ 30 %)
200	Voltage rating at 85 °C (200 V)
ME	Can size (see dimensions table)
2	PVC insulating sleeve
D	Terminal style (D = 2 pin snap-in)
E3	RoHS compliant

ELECTRICAL DATA AND ORDERING INFORMATION

CAPACITANCE (μF)	PART NUMBER	NOMINAL CASE SIZE D x L	MAX. ESR (mΩ)		MAX. RIPPLE at + 85 °C (A)	
			120 Hz	10 kHz to 40 kHz	120 Hz	10 kHz to 40 kHz
16 WV _{DC} at + 85 °C, SURGE = 20 V						
8200.0	80D822P016JB2DE3	0.984 x 1.18 (25.0 x 30.0)	73.0	65.0	3.3	3.6
8200.0	80D822P016KA2DE3	1.18 x 0.984 (30.0 x 25.0)	91.0	84.0	2.8	3.0
10 000.0	80D103P016JC2DE3	0.984 x 1.38 (25.0 x 35.0)	59.0	53.0	3.9	4.2
15 000.0	80D153P016JE2DE3	0.984 x 1.97 (25.0 x 50.0)	37.0	33.0	5.6	6.0
22 000.0	80D223P016KE2DE3	1.18 x 1.97 (30.0 x 50.0)	35.0	32.0	5.8	6.1
33 000.0	80D333P016ME2DE3	1.38 x 1.97 (35.0 x 50.0)	19.0	17.0	9.4	10.0
25 WV _{DC} at + 85 °C, SURGE = 30 V						
4700.0	80D472P025JB2DE3	0.984 x 1.18 (25.0 x 30.0)	76.0	65.0	3.2	3.6
6800.0	80D682P025KB2DE3	1.18 x 1.18 (30.0 x 30.0)	71.0	63.0	3.4	3.6
10 000.0	80D103P025JE2DE3	0.984 x 1.97 (25.0 x 50.0)	39.0	33.0	5.4	6.0
10 000.0	80D103P025MB2DE3	1.38 x 1.18 (35.0 x 30.0)	38.0	33.0	5.5	6.2
15 000.0	80D153P025KE2DE3	1.18 x 1.97 (30.0 x 50.0)	36.0	32.0	5.7	6.1
22 000.0	80D223P025ME2DE3	1.38 x 1.97 (35.0 x 50.0)	19.0	17.0	9.1	10.0

**ELECTRICAL DATA AND ORDERING INFORMATION**

CAPACITANCE (μF)	PART NUMBER	NOMINAL CASE SIZE D x L	MAX. ESR (mΩ)		MAX. RIPPLE at + 85 °C (A)	
			120 Hz	10 kHz to 40 kHz	120 Hz	10 kHz to 40 kHz
35 WV _{DC} at + 85 °C, SURGE = 44 V						
6800.0	80D682P035KC2DE3	1.18 x 1.38 (30.0 x 35.0)	60.0	51.0	3.8	4.2
10 000.0	80D103P035MC2DE3	1.38 x 1.38 (35.0 x 35.0)	33.0	27.0	6.2	7.2
12 000.0	80D123P035KE2DE3	1.18 x 1.97 (30.0 x 50.0)	33.0	27.0	6.2	7.2
15 000.0	80D153P035ME2DE3	1.38 x 1.97 (35.0 x 50.0)	20.0	17.0	8.8	10.0
50 WV _{DC} at + 85 °C, SURGE = 63 V						
3300.0	80D332P050JD2DE3	0.984 x 1.57 (25.0 x 40.0)	57.0	42.0	3.9	4.9
3300.0	80D332P050KB2DE3	1.18 x 1.18 (30.0 x 30.0)	79.0	63.0	3.1	3.6
4700.0	80D472P050KD2DE3	1.18 x 1.57 (30.0 x 40.0)	51.0	41.0	4.3	4.9
6800.0	80D682P050KE2DE3	1.18 x 1.97 (30.0 x 50.0)	40.0	32.0	5.3	6.1
63 WV _{DC} at + 85 °C, SURGE = 79 V						
1500.0	80D152P063JB2DE3	0.984 x 1.18 (25.0 x 30.0)	82.0	55.0	2.8	3.8
2200.0	80D222P063KB2DE3	1.18 x 1.18 (30.0 x 30.0)	72.0	54.0	3.2	3.9
3300.0	80D332P063MB2DE3	1.38 x 1.18 (35.0 x 30.0)	40.0	28.0	5.0	6.6
4700.0	80D472P063KE2DE3	1.18 x 1.97 (30.0 x 50.0)	36.0	28.0	5.4	6.4
6800.0	80D682P063ME2DE3	1.38 x 1.97 (35.0 x 50.0)	21.0	15.0	8.3	10.0
100 WV _{DC} at + 85 °C, SURGE = 125 V						
680.0	80D681P100JB2DE3	0.984 x 1.18 (25.0 x 30.0)	139.0	85.0	2.2	3.5
1000.0	80D102P100KB2DE3	1.18 x 1.18 (30.0 x 30.0)	111.0	74.0	2.7	3.7
1500.0	80D152P100JE2DE3	0.984 x 1.97 (25.0 x 50.0)	68.0	42.0	3.9	5.9
2200.0	80D222P100KE2DE3	1.18 x 1.97 (30.0 x 50.0)	55.0	37.0	4.7	6.2
3300.0	80D332P100ME2DE3	1.38 x 1.97 (35.0 x 50.0)	50.0	37.0	5.2	6.2
200 WV _{DC} at + 85 °C, SURGE = 250 V						
150.0	80D151P200JA2DE3	0.984 x 0.984 (25.0 x 25.0)	660.0	375.0	1.3	3.2
220.0	80D221P200KA2DE3	1.18 x 0.984 (30.0 x 25.0)	460.0	272.0	1.7	3.6
330.0	80D331P200KC2DE3	1.18 x 1.38 (30.0 x 35.0)	278.0	165.0	2.4	4.9
470.0	80D471P200KD2DE3	1.18 x 1.57 (30.0 x 40.0)	220.0	131.0	2.8	5.7
680.0	80D681P200KD2DE3	1.18 x 1.57 (30.0 x 40.0)	248.0	127.0	2.1	4.7
820.0	80D821P200ME2DE3	1.38 x 1.97 (35.0 x 50.0)	130.0	82.0	4.3	7.4
1000.0	80D102P200ME2DE3	1.38 x 1.97 (35.0 x 50.0)	144.0	81.0	3.4	6.6
1200.0	80D122P200ME2DE3	1.38 x 1.97 (35.0 x 50.0)	141.0	75.0	3.4	6.6
250 WV _{DC} at + 85 °C, SURGE = 300 V						
100.0	80D101P250JA2DE3	0.984 x 0.984 (25.0 x 25.0)	720.0	377.0	1.1	3.2
150.0	80D151P250JB2DE3	0.984 x 1.18 (25.0 x 30.0)	541.0	284.0	1.4	3.8
220.0	80D221P250JD2DE3	0.984 x 1.57 (25.0 x 40.0)	343.0	182.0	2.0	5.2
330.0	80D331P250JE2DE3	0.984 x 1.97 (25.0 x 50.0)	263.0	140.0	2.5	6.3
470.0	80D471P250KE2DE3	1.18 x 1.97 (30.0 x 50.0)	185.0	101.0	3.2	7.0
680.0	80D681P250ME2DE3	1.38 x 1.97 (35.0 x 50.0)	191.0	81.0	4.0	7.4



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