

Aluminum Capacitors +85 °C, Snap-In



FEATURES

- Useful life: 2000 h at +85 °C
- General purpose
- Polarized aluminum electrolytic capacitors, non-solid electrolyte
- High ripple capability
- Material categorization: For definitions of compliance please see www.vishay.com/doc?99912


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, C _R	82 µF to 56 000 µF
Tolerance on C _R	-10 %, +30 %
Rated voltage range, U _R	6.3 WV _{DC} to 250 WV _{DC}
Termination	Snap mount
Life validation test 2000 h at 85 °C	ΔCAP ≤ 15 % from initial measurement. ΔESR ≤ 1.5 x initial specified limit. ΔDCL ≤ initial specified limit
Shelf life 500 h at 85 °C	ΔCAP ≤ 15 % from initial measurement. ΔESR ≤ 1.3 x initial specified limit. ΔDCL ≤ 2 x 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			
TEMPERATURE			
AMBIENT TEMPERATURE	MULTIPLIERS		

**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				



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