

MAXWELL TECHNOLOGIES ULTRACAPACITORS

Enabling Energy's Future™

	Product Name	Rated Capacitance ¹ (F)	Rated Voltage (V), 65°/85°C	ESR, DC ¹ (mohm)	Leakage Current ⁴ (mA)	Max. Peak Current ³ (A), 1 Sec., 65°/85°C	Max. Continuous Current ² (A)		Weight (g)	Stored Energy ⁷ (Wh)	E _{max} ⁶ (Wh/kg) 65°/85°C	P _{max} ⁵ (W/kg)	Terminal	Length (mm)	Diameter (Width for PC10s) (mm)
	PC10-90 ¹⁰	10	2.50	180	0.040	4.5	2.4	3.8	6.3	0.009	1.4	1,400	Straight Lead	29.6 - 35.9	23.6
	PC10HT-90 ¹⁰	10	2.20	180	0.040	3.9	2.4	3.8	6.3	0.007	1.1	1,100	Bent Lead	29.6 - 35.9	23.6
	BCAP0001 P270 T01 ¹⁰	1	2.70/2.30	700	0.006	0.8/0.7	0.4	0.7	1.1	0.001	0.9/0.7	2,400	Leaded	12	8
	BCAP0003 P270 T01 ¹⁰	3.3	2.70/2.30	290	0.012	2.3/1.9	0.8	1.3	1.7	0.003	2.0/1.4	3,100	Leaded	20	10
	BCAP0005 P270 T01 ¹⁰	5	2.70/2.30	170	0.015	3.6/3.1	1.1	1.8	2.3	0.005	2.2/1.6	4,700	Leaded	20	10
	BCAP0010 P270 T01 ^{10,11} BCAP0010 P270 T11 ¹⁰	10	2.70/2.30	75	0.030	8/7	2.2	3.5	3.5	0.010	2.9/2.1	6,100	Straight Lead	30	10
	BCAP0025 P270 T01 ¹⁰ BCAP0025 P270 T11 ¹⁰	25	2.70/2.30	42	0.045	16/14	2.8	4.5	7.5	0.025	3.4/2.4	5,800	Bent Lead	26	16
	BCAP0050 P270 T01 ¹⁰	50	2.70/2.30	20	0.075	34/29	5.4	8.8	13	0.051	3.9/2.8	7,000	Leaded	40	18
	BCAP0100 P270 T01 ¹⁰ BCAP0100 P270 T07 ¹⁰	100	2.70/2.30	15	0.260	54/46	6.7	11	23 22	0.101	4.4/3.2 4.6/3.3	5,300 4,900	Leaded Snap In	45	22
	BCAP0150 P270 T07 ¹⁰	150	2.70/2.30	14	0.500	65/56	7.7	13	32	0.152	4.7/3.4	3,700	Snap In	50	25
	BCAP0310 P270 T10 ¹⁰	310	2.70	2.2	0.45	250	25	41	60	0.31	5.2	14,000	Radial Tab	61.5	33.3
	BCAP0350 E270 T11 ¹⁰	350	2.70	3.2	0.30	220	21	34	60	0.35	5.9	9,500	Radial Tab	61.5	33.3
	BCAP0650 P270 K04 ¹⁰ BCAP0650 P270 K05 ¹⁰	650	2.70	0.8	1.5	600	54	88	160	0.66	4.1	14,000	Threaded Weldable	51.5	60.4
	BCAP1200 P270 K04 ¹⁰ BCAP1200 P270 K05 ¹⁰	1,200	2.70	0.58	2.7	1,000	70	110	260	1.22	4.7	12,000	Threaded Weldable	74	60.4
	BCAP1500 P270 K04 ¹⁰ BCAP1500 P270 K05 ¹⁰	1,500	2.70	0.47	3.0	1,200	84	140	280	1.52	5.4	14,000	Threaded Weldable	85	60.4
	BCAP2000 P270 K04 ¹⁰ BCAP2000 P270 K05 ¹⁰	2,000	2.70	0.35	4.2	1,600	110	170	360	2.03	5.6	14,000	Threaded Weldable	102	60.4
	BCAP3000 P270 K04 ¹⁰ BCAP3000 P270 K05 ¹⁰	3,000	2.70	0.29	5.2	2,200	130	210	510	3.04	6.0	12,000	Threaded Weldable	138	60.4

Images not to scale.

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	BMOD0058 E016 B02 ¹⁰	58	16	22	25	200	12 19	0.63	2.1	3.3	4,600	1EC60068-2-6	Passive	NR	226.5	49.5	76.0
	BMOD0500 P016 B01 ¹⁰ BMOD0500 P016 B02 ¹⁰	500	16	2.1	5.2 170	2,000	100 160	5.51	17.8	3.2	5,500	SAE J2380	VMS 2.0 Passive	2,500	418	68	179
	BMOD0083 P048 B0	83	48	10	3	1,100	61 100	10.3	26.6	2.6	5,600	SAE J2380	VMS 2.0	2,500	418	191	179
	BMOD0165 P048 B01 ¹⁰	165	48	6.3	5.2	1,900	77 130	13.5	52.8	3.9	6,800	SAE J2380	VMS 2.0	2,500	418	194	179
	BMOD0130 P056 B03 ¹⁰	130	56	8.1	120	1,800	61 99	18	56.6	3.1	5,400	Telcordia GR-603 Zone 4	Passive	3,500	683	177	175
	BMOD0094 P075 B02	94	75	13	50	1,600	48 78	25	73.4	2.9	4,300	SAE J2380	Passive	2,500	515	263	220
	BMOD0063 P125 B04 BMOD0063 P125 B08	63	125	18	10	1,800	140 240	60.5	136.7	2.3	3,600	ISO16750-3 Table 14	VMS 2.0	4,000	619	425	265
	BMOD0006 E160 B02	5.8	160	220	25	200	7.0 13.0	5.1	20.6	4.0	5,600	IEC60068-2-6	Passive	5,600	367	235	79
	ESM 123000-31	1000	16.2	2	10	N/A	N/A N/A	9.5	36.5	3.5	3,100	SAE J1455	Intelligent	N/A	330	173	240

FOOT NOTES

- Capacitance and ESR_{DC} measured at 25°C per Document Number 1007239 available at www.maxwell.com.
- Max. continuous current to product 15°C or 40°C temperature increase over ambient.
- Maximum Peak current (1 sec) = $\frac{\frac{1}{2} CV^2}{C \times ESR_{DC} + 1}$
- After 72 hours at 25°C and rated voltage. Initial leakage current can be higher.
- $P_{max} = \frac{V^2}{4 \times ESR_{DC} \times \text{mass}}$

$$6. E_{max} = \frac{\frac{1}{2} CV^2}{3,600 \times \text{mass}}$$

$$7. E_{stored} = \frac{\frac{1}{2} CV^2}{3,600}$$

8. Without fan. With fan, mass is 63.4 kg.

9. Duration = 60 seconds. Not intended as an operating parameter.

10. UL810a Certified

11. Rated voltage 2.50V at 70°C

VMS: Voltage Management System

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