

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 ² (mA)	Absolute Maximum Current (A)	Max. Continuous Current ³ (A _{RMS})		Weight (g)	Stored Energy ⁴ (Wh)	E _{max} ⁵ (Wh/kg) 65°/85°C	P _{max} ⁶ (W/kg)	Terminals	Length (mm)	Diameter (Width for PC10s) (mm)
	BCAP0001 P270 T01 ⁹	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	Straight Lead	12	8
	BCAP0003 P270 T01 ⁹	3.3	2.70/2.30	290	0.012	1.9/1.6	0.8	1.3	1.7	0.003	2.0/1.4	3,700	Straight Lead	20	10
	BCAP0005 P270 T01 ⁹	5	2.70/2.30	170	0.015	3.2/2.7	1.1	1.8	2.3	0.005	2.2/1.6	4,700	Straight Lead	20	10
	BCAP0010 P270 T01 ⁹	10	2.70/2.30	75	0.030	7.2/6.1	2.2	3.5	3.5	0.010	2.9/2.1	6,900	Straight Lead	30	10
	BCAP0010 P270 T11 ⁹												Bent Lead		
	BCAP0025 P270 T01 ⁹	25	2.70/2.30	42	0.045	20/11	2.8	4.5	7.5	0.025	3.4/2.4	5,800	Straight Lead	26	16
	BCAP0025 P270 T11 ⁹												Bent Lead		
	BCAP0050 P270 T01 ⁹	50	2.70/2.30	20	0.075	27/23	5.4	8.8	13	0.051	3.9/2.8	7,000	Straight Lead	40	18
	BCAP0100 P270 T01 ⁹	100	2.70/2.30	15	0.260	36/31	6.7	11	23	0.101	4.4/3.2	5,300	Straight Lead	45	22
	BCAP0100 P270 T07 ⁹								22		4.6/3.3	5,500	Snap In		
	BCAP0150 P270 T07 ⁹	150	2.70/2.30	14	0.500	40/33	7.7	13	32	0.152	4.7/3.4	4,100	Snap In	50	25
	BCAP0310 P270 T10 ⁹	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 ⁹	350	2.70	3.2	0.30	170	21	34	60	0.35	5.9	9,500	Radial Tab	61.5	33.3
	BCAP0650 P270 K04 ⁹	650	2.70	0.8	1.5	680	54	88	160	0.66	4.1	14,000	Threaded Weldable	51.5	60.4
	BCAP0650 P270 K05 ⁹														
	BCAP1200 P270 K04 ⁹	1,200	2.70	0.58	2.7	930	70	110	260	1.22	4.7	12,000	Threaded Weldable	74	60.4
	BCAP1200 P270 K05 ⁹														
	BCAP1500 P270 K04 ⁹	1,500	2.70	0.47	3.0	1,150	84	140	280	1.52	5.4	14,000	Threaded Weldable	85	60.4
	BCAP1500 P270 K05 ⁹														
	BCAP2000 P270 K04 ⁹	2,000	2.70	0.35	4.2	1,500	110	170	360	2.03	5.6	14,000	Threaded Weldable	102	60.4
	BCAP2000 P270 K05 ⁹														
	BCAP3000 P270 K04 ⁹	3,000	2.70	0.29	5.2	1,900	130	210	510	3.04	6.0	12,000	Threaded Weldable	138	60.4
	BCAP3000 P270 K05 ⁹														
	BCAP3400 P285 K04 ⁹	3,400	2.85	0.28	18	2,000	131	211	520	3.84	7.4	14,000	Threaded Weldable	138	60.4
	BCAP3400 P285 K05 ⁹														

Images not to scale.

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	BMOD0058 E016 B02 ⁹	58	16	22	25	170	12 19	0.63	2.1	3.3	4,600	IEC60068-2-6	Passive	5,600 VDC	226.5	49.5	76
	BMOD0500 P016 B01 ⁹ BMOD0500 P016 B02 ⁹	500	16	2.1	5.2 170	1,900	100 160	5.5	18	3.2	5,500	SAE J2380	VMS 2.0 Passive	2,500 VDC	418	68	179
	BMOD0083 P048 B01	83	48	10	3.0	1,150	61 100	10.3	27	2.6	5,600	SAE J2380	VMS 2.0	2,500 VDC	418	194	126
	BMOD0165 P048 B01 ⁹ , B09 BMOD0165 P048 B06 ⁹	165	48	6.3	5.2	1,900	77 130	13.5	53	3.9	6,800	SAE J2380	VMS 2.0 VMS 2.5	2,500 VDC	418	194	179
	BMOD0130 P056 B03 ⁹	130	56	8.1	120	1,900	61 99	18	57	3.1	5,400	Telcordia GR-63 Zone 4	Passive	4,000 VDC	683	177	175
	BMOD0094 P075 B02	94	75	13	50	1,900	48 78	25	73	2.9	4,300	SAE J2380	Passive	2,500 VDC	515	263	220
	BMOD0063 P125 B04 BMOD0063 P125 B08	63	125	18	10	1,900	140 240	60.5 ⁸	140	2.3	3,600	ISO16750-3 Table 14	VMS 2.0	4,000 VAC	619	425	265
	BMOD0006 E160 B02	5.8	160	240	25	170	7.0 12	5.1	21	4.0	5,100	IEC60068-2-6	Passive	5,600 VDC	367	234	79.4
	ESM ULTRA 31/1800	1000	15	2.0	10	3,800	N/A N/A	9.5	36	3.8	3,450	SAE J1455	Intelligent	N/A	330	173	240
	ESM ULTRA 31/900	500	15	4.0	10	1,900	N/A N/A	7.3	18	2.5	2,245	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.
- After 72 hours at 25°C and rated voltage. Initial leakage current can be higher.
- Max. continuous current to produce 15°C or 40°C temperature increase over ambient.

$$4. E_{\text{stored}} = \frac{\frac{1}{2} CV^2}{3,600}$$

$$5. E_{\text{max}} = \frac{\frac{1}{2} CV^2}{3,600 \times \text{mass}}$$

$$6. P_{\text{max}} = \frac{V^2}{4 \times \text{ESR}_{\text{DC}} \times \text{mass}}$$

- Duration = 60 seconds. Not intended as an operating parameter.
- Without fan. With fan, mass is 63.4 kg.
- UL810a Certified

VMS: Voltage Management System

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