

























# MAXWELL TECHNOLOGIES ULTRACAPACITORS



Enabling Energy's Future™

Product Name	Rated Capacitance <sup>1</sup> (F)	Rated Voltage (V), 65°/85°C	ESR <sub>DC</sub> <sup>1</sup> (mohm)	Leakage Current <sup>2</sup> (mA)	Absolute Maximum Current (A)	Max. Continuous Current <sup>3</sup> (A <sub>RMS</sub> ) 15°C rise      40°C rise		Weight (g)	Stored Energy <sup>4</sup> (Wh)	E <sub>max</sub> <sup>5</sup> (Wh/kg) 65°/85°C	P <sub>max</sub> <sup>6</sup> (W/kg)	Terminals	Length (mm)	Diameter (Width for PC10s) (mm)
 BCAP0001 P270 T01 <sup>9</sup>	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 <sup>9</sup>	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 <sup>9</sup>	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 <sup>9</sup>	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 <sup>9</sup>												Bent Lead		
 BCAP0025 P270 T01 <sup>9</sup>	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 <sup>9</sup>												Bent Lead		
 BCAP0050 P270 T01 <sup>9</sup>	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 <sup>9</sup>	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 <sup>9</sup>												Snap In		
 BCAP0150 P270 T07 <sup>9</sup>	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 <sup>9</sup>	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 <sup>9</sup>	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 <sup>9</sup>	650	2.70	0.8	1.5	680	54	88	160	0.66	4.1	14,000	Threaded	51.5	60.4
 BCAP0650 P270 K05 <sup>9</sup>												Weldable		
 BCAP1200 P270 K04 <sup>9</sup>	1,200	2.70	0.58	2.7	930	70	110	260	1.22	4.7	12,000	Threaded	74	60.4
 BCAP1200 P270 K05 <sup>9</sup>												Weldable		
 BCAP1500 P270 K04 <sup>9</sup>	1,500	2.70	0.47	3.0	1,150	84	140	280	1.52	5.4	14,000	Threaded	85	60.4
 BCAP1500 P270 K05 <sup>9</sup>												Weldable		
 BCAP2000 P270 K04 <sup>9</sup>	2,000	2.70	0.35	4.2	1,500	110	170	360	2.03	5.6	14,000	Threaded	102	60.4
 BCAP2000 P270 K05 <sup>9</sup>												Weldable		
 BCAP3000 P270 K04 <sup>9</sup>	3,000	2.70	0.29	5.2	1,900	130	210	510	3.04	6.0	12,000	Threaded	138	60.4
 BCAP3000 P270 K05 <sup>9</sup>												Weldable		
 BCAP3400 P285 K04 <sup>9</sup>	3,400	2.85	0.28	18	2,000	131	211	520	3.84	7.4	14,000	Threaded	138	60.4
 BCAP3400 P285 K05 <sup>9</sup>												Weldable		

Images not to scale.

For more information visit: [www.maxwell.com](http://www.maxwell.com)



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 BMOD0058 E016 B02 <sup>9</sup>	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 <sup>9</sup> BMOD0500 P016 B02 <sup>9</sup>	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 <sup>9</sup> , B09 BMOD0165 P048 B06 <sup>9</sup>	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 <sup>9</sup>	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 <sup>8</sup>	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

1. Capacitance and ESR<sub>DC</sub> measured at 25°C per Document Number 1007239 available at [www.maxwell.com](http://www.maxwell.com).
2. After 72 hours at 25°C and rated voltage. Initial leakage current can be higher.
3. Max. continuous current to produce 15°C or 40°C temperature increase over ambient.

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

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

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

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

VMS: Voltage Management System  
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