

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}) 15°C rise 40°C rise	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)
 PC10-90* ⁹	10	2.50	180	0.040	2.8	2.4 3.8	6.3	0.009	1.4	1,400	Straight Lead	29.6 - 35.9	23.6
 PC10HT-90* ⁹	10	2.20	180	0.040	2.4	2.4 3.8	6.3	0.007	1.1	1,100	Bent Lead	29.6 - 35.9	23.6
 BCAP0001 P270 T01°	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°	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°	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°	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 Bent Lead	30	10
 BCAP0025 P270 T01°	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 Bent Lead	26	16
 BCAP0050 P270 T01°	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°	100	2.70/2.30	15	0.260	36/31	6.7 11	23 22	0.101	4.4/3.2 4.6/3.3	5,300 5,500	Straight Lead Snap In	45	22
 BCAP0150 P270 T07°	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°	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°	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°	650	2.70	0.8	1.5	680	54 88	160	0.66	4.1	14,000	Threaded Weldable	51.5	60.4
 BCAP1200 P270 K04°	1,200	2.70	0.58	2.7	930	70 110	260	1.22	4.7	12,000	Threaded Weldable	74	60.4
 BCAP1500 P270 K04°	1,500	2.70	0.47	3.0	1,150	84 140	280	1.52	5.4	14,000	Threaded Weldable	85	60.4
 BCAP2000 P270 K04°	2,000	2.70	0.35	4.2	1,500	110 170	360	2.03	5.6	14,000	Threaded Weldable	102	60.4
 BCAP3000 P270 K04°	3,000	2.70	0.29	5.2	1,900	130 210	510	3.04	6.0	12,000	Threaded Weldable	138	60.4

Images not to scale.

For more information visit: www.maxwell.com

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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 ³ , 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	235	79
	ESM 123000-31	1000	15	2.0	10	3,800	N/A N/A	9.5	37	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.
- After 72 hours at 25°C and rated voltage. Initial leakage current can be higher.
- Max. continuous current to product 15°C or 40°C temperature increase over ambient.
- $$E_{\text{stored}} = \frac{\frac{1}{2} CV^2}{3,600}$$
- $$E_{\text{max}} = \frac{\frac{1}{2} CV^2}{3,600 \times \text{mass}}$$
- $$P_{\text{max}} = \frac{V^2}{4 \times \text{ESR}_{\text{DC}} \times \text{mass}}$$
- Duration = 60 seconds. Not intended as an operating parameter.
- Without fan. With fan, mass is 63.4 kg.
- UL810a Certified

*Maxwell will cease production and sales of the PC10 series by mid-2014. Please contact Maxwell for more information.
VMS: Voltage Management System
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