



Joule Cap

RoHS compliant
REACH compliant

Features

- Greatest Capacitance/Voltage product in smallest size package
- Box construction facilitates high density PCB layout
- Very low inductance achieved by horizontal layering of capacitor elements

Applications

- Inverters
- Photoflash
- Stroboscopes
- Motor Drivers
- Bulk energy storage for applications with high active currents

Different voltages and capacitance combinations are available on request. Also in small lots.

General specifications

Items	Characteristics
Capacitance range	2,5 ... 50 μ F
Rated voltage DC	500 ... 1500 V DC
Available tolerance	$\pm 5\%$ (J) $\pm 10\%$ (K)
Rated RMS current	10 ... 59 A _{rms}
Operating temperature range	-40 °C ... +85 °C
Climatic category DIN IEC 68/1	40/085/21
Terminals	\varnothing 1 mm, 2 pins or 4 pins
Terminal length	3,5 – 25 mm

Electrical data and ordering code for series JC*

U _N [VDC]	C _N [μF]	H [mm]	U _{peak} [VDC]	ESR _{typ 25°C} 10kHz [mΩ]	I ~ 25°C 10kHz [A]	I ~ 50°C 10kHz [A]	I ~ 75°C 10kHz [A]	R _{th} [K/W]	ESL [nH]	f _{res} [kHz]	Part No.
500	18	38	800	15,0	17,8	15,0	11,2	8	12	343	JC18.00500...
	35	55	800	8,0	25,0	21,3	16,3	8	17	206	JC35.00500...
	50	84	800	3,8	59,1	45,1	24,1	5	14	190	JC50.00500...
600	15	38	900	17,3	16,6	14,0	10,4	8	12	375	JC15.00600...
	30	55	900	9,0	23,4	19,9	15,1	8	17	223	JC30.00600...
	40	84	900	4,2	56,1	42,9	22,9	5	14	213	JC40.00600...
750	10	38	1050	19,5	15,2	12,7	9,1	8	12	460	JC10.00750...
	20	55	1050	10,0	21,8	18,4	13,7	8	17	273	JC20.00750...
	33	84	1050	4,9	52,3	40,0	21,4	5	14	234	JC33.00750...
900	6,8	38	1200	21,8	14,0	11,5	7,9	8	12	557	JC06.80900...
	14	55	1200	11,0	20,2	16,9	12,6	8	17	326	JC14.00900...
	22	84	1200	5,4	49,9	38,1	20,4	5	14	287	JC22.00900...
1000	5,6	38	1300	24,4	12,8	10,4	6,8	8	12	614	JC05.61000...
	10	55	1300	13,0	18,1	14,9	10,7	8	17	386	JC10.01000...
	16	84	1300	6,0	47,1	36,0	19,2	5	14	336	JC16.01000...
1200	4,2	38	1500	28,2	11,5	9,2	5,6	8	12	709	JC04.21200...
	7	55	1500	16,0	15,8	12,8	9,7	8	17	462	JC07.01200...
	12	84	1500	6,5	45,2	34,5	18,5	5	14	388	JC12.01200...
1500	2,5	38	1800	34,7	10,0	7,8	4,2	8	12	919	JC02.51500...
	4,7	55	1800	19,0	14,0	11,2	8,1	8	17	563	JC04.71500...
	7,5	84	1800	6,5	45,5	34,7	18,6	5	14	491	JC07.51500...

 match code : JC Cap Voltage [Tol -Pin -WL](#) Tol: K=10% ; J=5% -Wire Length: 3,5...25 mm

* The indicated current is calculated for 4-pins variants

Drawings for series JC

