

JOULE CAP



RoHS compliant
REACH compliant

■ FEATURES

- Greatest Capacitance/Voltage product in smallest size package
- Box construction facilitates high density PCB layout
- Low inductance achieved by horizontal layering of capacitor element
- Self-healing PP dielectric

■ APPLICATIONS

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

■ GENERAL SPECIFICATIONS

| Items | Characteristics |
|--------------------------------|------------------------------------|
| Capacitance range | 2,5 µF ... 50 µF others on request |
| Rated voltage AC | 500 Vdc ... 1500 Vdc |
| Available tolerance | ± 5 % (J) ± 10 % (K) |
| Rated RMS current | max. 23 Arms |
| Operating temperature range | -40 °C ... +85 °C |
| Climatic category DIN IEC 68/1 | 40/085/21 |
| Terminals | PCB Pins, 2x 1mm or 4x 1mm |
| Terminal lenght | 3,5 - 25mm |

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

ELECTRICAL DATA FOR SERIES JOULE CAP*

| U _N [VDC] | C _N [μF] | H [mm] | Max. ESR @10kHz [mOhm] | Max. I _{rms} [A] @10kHz/30°C | | R _{th} [K/W] | Weigth (approx) [g] | Part No. plus (...) = tol. and wire lenght |
|-------------------------|------------------------|-----------|------------------------------|--|-------|--------------------------|---------------------------|---|
| | | | | 2-Pin | 4-Pin | | | |
| 500 | 18 | 38 | 6 | 15 | 23 | 13 | 55 | JC18μ500d38... |
| | 35 | 55 | 4 | 15 | 23 | 10 | 75 | JC35μ500d55... |
| | 50 | 84 | 3 | - | 23 | 7 | 110 | JC50μ500d84... |
| 600 | 15 | 38 | 7 | 15 | 23 | 13 | 55 | JC15μ600d38... |
| | 30 | 55 | 4 | 15 | 23 | 10 | 75 | JC30μ600d55... |
| | 40 | 84 | 3,5 | - | 23 | 7 | 110 | JC40μ600d84... |
| 750 | 10 | 38 | 8 | 15 | 23 | 13 | 55 | JC10μ750d38... |
| | 20 | 55 | 4 | 15 | 23 | 10 | 75 | JC20μ750d55... |
| | 33 | 84 | 4 | - | 23 | 7 | 110 | JC33μ750d84... |
| 900 | 6,8 | 38 | 9 | 15 | 23 | 13 | 55 | JC6.8μ900d38... |
| | 14 | 55 | 5 | 15 | 23 | 10 | 75 | JC14μ900d55... |
| | 22 | 84 | 4 | - | 23 | 7 | 110 | JC22μ900d84... |
| 1000 | 5,6 | 38 | 10 | 15 | 22 | 13 | 55 | JC5.6μ1000d38... |
| | 10 | 55 | 6 | 15 | 23 | 10 | 75 | JC10μ1000d55... |
| | 16 | 84 | 5 | - | 23 | 7 | 110 | JC16μ1000d84... |
| 1200 | 4,2 | 38 | 11 | 15 | 21 | 13 | 55 | JC4.2μ1200d38... |
| | 7 | 55 | 7 | 15 | 23 | 10 | 75 | JC7μ1200d55... |
| | 12 | 84 | 5,5 | - | 23 | 7 | 110 | JC12μ1200d84... |
| 1500 | 2,5 | 38 | 12 | 15 | 18 | 13 | 55 | JC2.5μ1500d38... |
| | 4,7 | 55 | 8 | 15 | 23 | 10 | 75 | JC4.7μ1500d55... |
| | 7,5 | 84 | 6 | - | 23 | 7 | 110 | JC7.5μ1500d84... |

match code: Joule Cap Voltage Tol -Pin -WI Tol: K=10 %; J=5 % -Wire Length: 3,5 mm ... 25mm

*The indicated current is calculated for 4-pins variants

EXAMPLE OF DRAWINGS FOR SERIES JOULE CAP

