Joule Cap

FILM CAPACITORS

85°C

FTCAP
FISCHER & TAUSCHE
CAPACITORS
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Technical Data Overview	
Capacitance range	2,5 µF … 50 µF others on request
Rated voltage DC	500 VDC ... 1500 VDC
Available tolerance	± 5 % (J) ± 10 % (K)
Rated RMS current	max. 23 A_{RMS}
Operating temperature range	-40 °C … +85 °C
Climatic category DIN IEC 68/1	40/085/21
Terminals	PCB Pins, 2x 1mm or 4x 1mm, or press-fit contacts
Terminal length	3,5 - 25mm

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

FEATURES & BENEFITS:

- 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

APPROVALS:

- RoHS compliant
- REACH compliant

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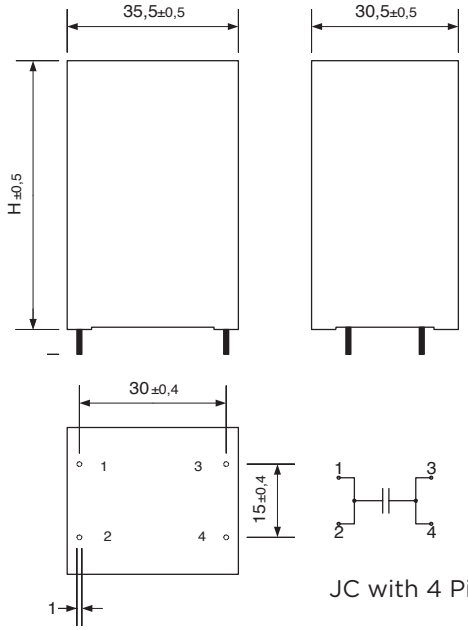
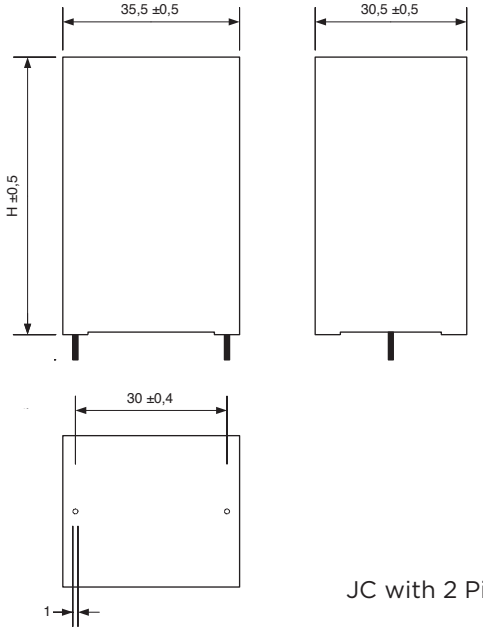
ELECTRICAL DATA FOR SERIES JOULE CAP

U_R	C_R	H	Max. ESR @10kHz	Max. I_{RMS} @10kHz/30°C		R_{th}	Weight (approx)	Part No. plus (...) = tol. and wire length
[V_{DC}]	[µF]	[mm]	[mΩ]	[A]		[K/W]	[g]	
				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…

EXAMPLE OF DRAWINGS FOR SERIES JOULE CAP



JC with 4 Pins



JC with 2 Pins

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