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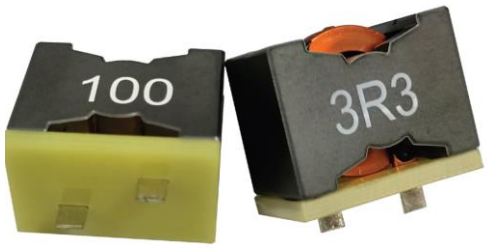
High Current Flat Wire Power Inductors – REP2918B

PART NUMBERING SYSTEM

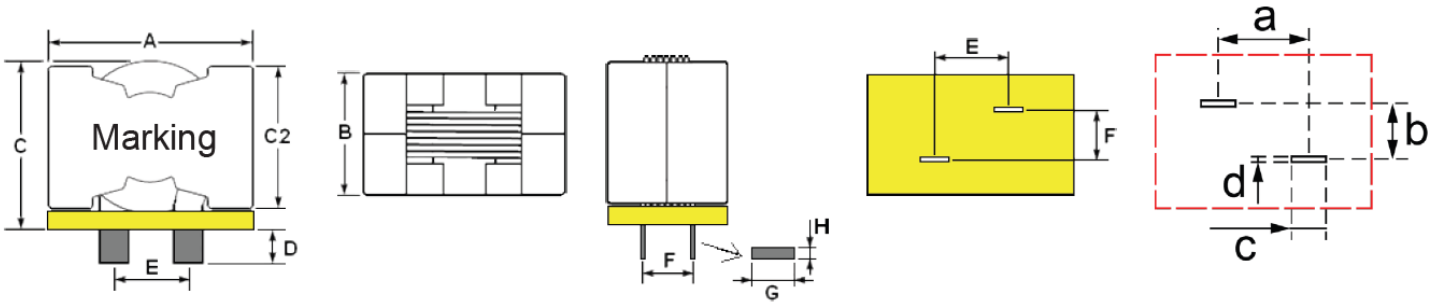
REP	–	2918B	–	4R7	–	LF
TYPE		DIMENSIONS		INDUCTANCE		LEAD FREE

FEATURES :

- Designed with low core loss ferrite material for optimal efficiency.
- Wide inductance range: 3.3µH to 100.0µH, with custom values available.
- High current output chokes supporting up to 89.00 Amps with approximately 30% roll-off.
- Flat wire winding reduces both DC and AC resistance, ensuring minimal energy loss.
- Compact vertical mounting for space-saving design.
- Operating temperature range: -55°C to +130°C, suitable for extreme environments.
- Fully RoHS and HF compliant for safety and sustainability.
- Customized part available



SHAPES AND DIMENSIONS :



A=27.9Max B=17.8Max C=22.8Max C2=19.2Ref D=4.0±1.0 E=10.5±0.5 F=5.5±0.5 G=3.8±0.2 a=11.3Ref b=6.7 Ref c=4.5 Ref UNIT：mm

APPLICATIONS :

- Power Supply Units (PSUs): Used in switched-mode power supplies (SMPS) for filtering and energy storage due to their high current handling capabilities and low resistance.
- Automotive Electronics: Ideal for electric vehicles (EVs), hybrid systems, and powertrain control modules where space and efficiency are critical, and the ability to handle high currents is essential.
- Industrial Power Systems: Used in heavy machinery, robotics, and automation systems where high current flow is required for motors, drives, and control systems.
- Telecommunication Equipment: In communication infrastructure, such as base stations and data centers, these inductors help with power regulation and signal filtering.
- DC-DC Converters: Frequently used in high-efficiency converters for renewable energy systems (solar, wind) and battery management systems.
- Inverters: Applied in inverters for solar energy systems, industrial motor drives, and UPS systems where high current and stable operation are necessary.

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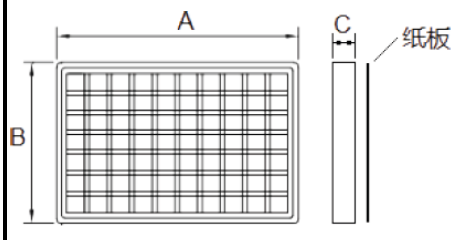
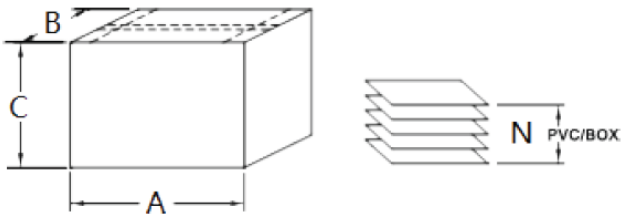
SPECIFICATION TABLE

PART NUMBER	INDUCTANCE (μH)	Isat (A) (Typ.)	Irms (A) (Typ.)	DCR (mΩ) (Max.)	Dimension H (mm)
REP2918B-3R3M-LF	3.3±20%	89.0	31.0	2.42	0.8±0.2
REP2918B-4R7M-LF	4.7±20%	65.0	31.0	2.42	0.8±0.2
REP2918B-6R8M-LF	6.8±20%	46.0	31.0	2.42	0.8±0.2
REP2918B-8R2M-LF	8.2±20%	39.4	31.0	2.42	0.8±0.2
REP2918B-100M-LF	10±20%	34.1	26.8	3.19	0.7±0.2
REP2918B-120M-LF	12±20%	32.0	26.8	3.19	0.7±0.2
REP2918B-150M-LF	15±20%	28.1	25.5	3.52	0.7±0.2
REP2918B-180M-LF	18±20%	25.6	22.0	4.62	0.6±0.2
REP2918B-220M-LF	22±20%	23.0	19.0	6.49	0.5±0.2
REP2918B-330M-LF	33±20%	19.8	15.6	9.46	0.4±0.2
REP2918B-390M-LF	39±20%	18.1	15.6	9.46	0.4±0.2
REP2918B-470M-LF	47±20%	17.4	13.7	12.32	0.35±0.2
REP2918B-500M-LF	50±20%	16.2	13.7	12.32	0.35±0.2
REP2918B-560M-LF	56±20%	15.2	12.0	16.17	0.3±0.2
REP2918B-620M-LF	62±20%	14.0	12.0	16.17	0.3±0.2
REP2918B-680M-LF	68±20%	12.9	12.0	16.17	0.3±0.2
REP2918B-860M-LF	86±20%	10.5	12.0	16.17	0.3±0.2
REP2918B-101M-LF	100±20%	8.9	11.5	17.05	0.3±0.2

- Test condition: 25℃ 300KHz/0.1V
- All data is tested based on 25℃ ambient temperature.
- Saturation current: DC current that causes inductance to drop 30%.
- Temperature rise current: DC current for temperature rise of 40℃ without core loss.
- Derating is necessary for AC currents, PCB pad layout, trace thickness and width, air-flow and proximity of other heat generating components will affect the temperature rise. It is recommended the part temperature should not exceed 130°C under worst case operating conditions verified in the end application.

PACKAGING SPECIFICATION





STAYLE	Q'TY (PCS)	CARTON DIMENSIONS (m/m)					
		A	B	C	N	Material	-
TRAY	280	340	215	220	8	Paper	-