

Description

- Miniature surface mount design
- Inductance range from 0.470uH to 1000uH
- Current range from 19.2 to .47 Amps
- Maximum power density
- Ideal for applications requiring low inductance and high current in a miniature package
- Modified standard products are available
- Protective case eliminates core breakage
- Meets UL 94V-0 flammability standard
- Ferrite core material



Applications

- DC-DC converters on board level and industrial products

Environmental Data

- Storage temperature range: -40°C to +125°C
- Operating ambient temperature range: -40°C to +85°C (range is application specific)
- Solder reflow temperature: +260°C max. for 10 seconds max.

Packaging

- Supplied in tape and reel packaging, 900 (UP1B), 550 (UP2B), 450 (UP3B), and 275 (UP4B) per reel

Part Number	Inductance μH (rated)	OCL ⁽¹⁾ $\mu\text{H} \pm 20\%$	I RMS ⁽²⁾ Amperes	I SAT ⁽³⁾ Amperes	DCR ⁽⁴⁾ Ohms max.
UP1B-R47-R	0.47	0.569	6.0	7.7	0.0097
UP1B-1R0-R	1.0	1.20	4.4	5.3	0.0177
UP1B-1R5-R	1.5	1.61	4.2	4.5	0.0200
UP1B-2R2-R	2.2	2.62	3.1	3.5	0.0363
UP1B-3R3-R	3.3	3.79	2.9	3.0	0.0428
UP1B-4R7-R	4.7	5.15	2.2	2.6	0.0544
UP1B-6R8-R	6.8	6.87	1.7	2.2	0.0897
UP1B-100-R	10.0	11.00	1.5	1.9	0.1107
UP1B-150-R	15.0	16.00	1.2	1.5	0.1747
UP1B-220-R	22.0	23.50	1.0	1.2	0.2541
UP1B-330-R	33.0	36.00	0.82	0.99	0.3670
UP1B-470-R	47.0	48.50	0.72	0.87	0.4740
UP1B-680-R	68.0	73.52	0.58	0.67	0.7320
UP1B-101-R	100.0	112.67	0.47	0.53	1.11
UP1B-151-R	150.0	152.40	0.40	0.46	1.61
UP1B-221-R	220.0	223.10	0.36	0.38	1.96
UP1B-331-R	330.0	331.90	0.28	0.31	3.10
UP2B-R47-R	0.47	0.595	10.6	11.4	0.0049
UP2B-1R0-R	1.0	1.00	9.3	9.9	0.0065
UP2B-1R5-R	1.5	1.46	8.3	7.9	0.0081
UP2B-2R2-R	2.2	2.56	7.2	6.1	0.0107
UP2B-3R3-R	3.3	3.23	6.5	5.1	0.0128
UP2B-4R7-R	4.7	4.77	5.5	4.2	0.0165
UP2B-6R8-R	6.8	6.63	5.0	3.6	0.0202
UP2B-100-R	10.0	9.73	4.3	3.3	0.0267
UP2B-150-R	15.0	15.43	3.5	2.4	0.0410
UP2B-220-R	22.0	22.50	2.8	2.0	0.0617
UP2B-330-R	33.0	33.13	2.1	1.7	0.0917
UP2B-470-R	47.0	48.65	1.7	1.4	0.1388
UP2B-680-R	68.0	68.17	1.5	1.2	0.1787
UP2B-820-R	82.0	84.1	1.34	1.03	0.2235
UP2B-101-R	100.0	102.60	1.2	0.95	0.2707
UP2B-151-R	150.0	150	1.0	0.77	0.4100

Notes: (1) Open Circuit Inductance Test Parameters: 100KHz, .250Vrms, 0.0A dc.

(2) RMS current for an approximate ΔT of 40°C. at an ambient temperature of 85°C.

(3) Peak current for approximately 30% rolloff UP1B, 3B, 4B. 10% rolloff UP2B @ 20°C

(4) DCR limits 20°C.

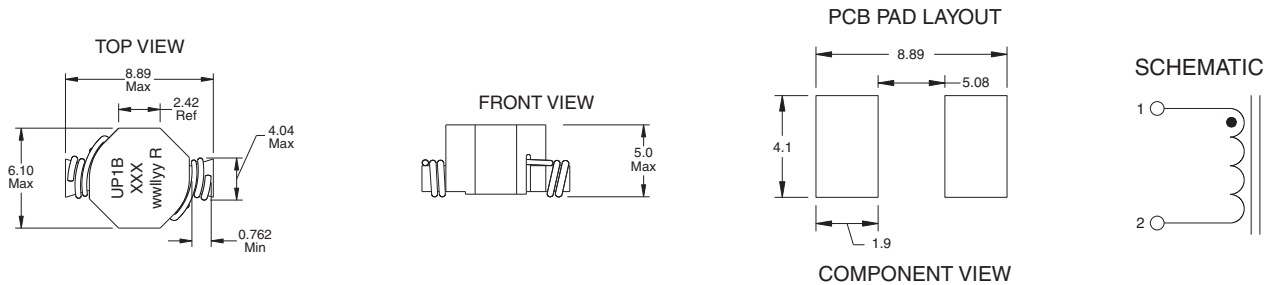
Part Number	Inductance μH (rated)	OCL ⁽¹⁾ μH±20%	I RMS ⁽²⁾ Amperes	I SAT ⁽³⁾ Amperes	DCR ⁽⁴⁾ Ohms max.
UP2B-221-R	220.0	223	0.773	0.637	0.6717
UP2B-331-R	330.0	338	0.676	0.510	0.8783
UP2B-471-R	470.0	471	0.553	0.427	1.31
UP2B-681-R	680.0	700	0.452	0.355	1.97
UP2B-821-R	820.0	823	0.423	0.334	2.24
UP2B-102-R	1000.0	1005	0.369	0.300	2.96
UP3B-R47-R	0.47	0.452	16.0	25.1	0.0021
UP3B-1R0-R	1.0	1.34	12.5	15.3	0.0034
UP3B-1R5-R	1.5	2.08	10.0	12.0	0.0053
UP3B-2R2-R	2.2	3.01	9.2	10.2	0.0074
UP3B-3R3-R	3.3	3.96	8.0	9.3	0.0083
UP3B-4R7-R	4.7	5.00	6.5	7.7	0.0114
UP3B-6R8-R	6.8	7.70	5.8	6.2	0.0183
UP3B-100-R	10.0	11.00	4.3	5.2	0.0260
UP3B-150-R	15.0	16.38	3.9	4.3	0.0317
UP3B-220-R	22.0	23.93	3.1	3.7	0.0490
UP3B-330-R	33.0	33.85	2.4	3.0	0.0688
UP3B-470-R	47.0	51.00	1.9	2.4	0.1082
UP3B-680-R	68.0	69.50	1.6	2.0	0.1558
UP3B-101-R	100.0	101.40	1.4	1.8	0.2053
UP3B-151-R	150.0	152.9	1.2	1.4	0.2960
UP3B-331-R	330.0	332.80	0.75	0.98	0.7330
UP4B-R47-R	0.47	0.473	19.2	51.7	0.0019
UP4B-1R0-R	1.0	0.916	17.3	37.3	0.0023
UP4B-1R5-R	1.5	1.52	13.4	28.9	0.0039
UP4B-2R2-R	2.2	2.27	12.0	23.7	0.0048
UP4B-3R3-R	3.3	3.14	11.0	20.2	0.0057
UP4B-4R7-R	4.7	5.34	8.6	15.6	0.0093
UP4B-6R8-R	6.8	6.66	8.3	14.1	0.0100
UP4B-100-R	10.0	9.77	6.8	11.5	0.0150
UP4B-150-R	15.0	15.61	5.5	9.1	0.0230
UP4B-220-R	22.0	22.61	4.5	7.6	0.0340
UP4B-330-R	33.0	34.30	3.7	6.1	0.0520
UP4B-470-R	47.0	48.10	3.1	5.2	0.0740
UP4B-680-R	68.0	69.14	2.4	4.3	0.1200
UP4B-101-R	100.0	99.42	2.0	3.6	0.1700
UP4B-151-R	150.0	146.90	1.7	3.0	0.2392
UP4B-221-R	220.0	221.40	1.4	2.4	0.3571
UP4B-331-R	330.0	330.00	1.1	2.0	0.5800
UP4B-471-R	470.0	470.10	0.91	1.7	0.8330

Notes: (1) Open Circuit Inductance Test Parameters: 100KHz, .250Vrms, 0.0Adc.
(2) RMS current for an approximate ΔT of 40°C. at an ambient temperature of 85°C.

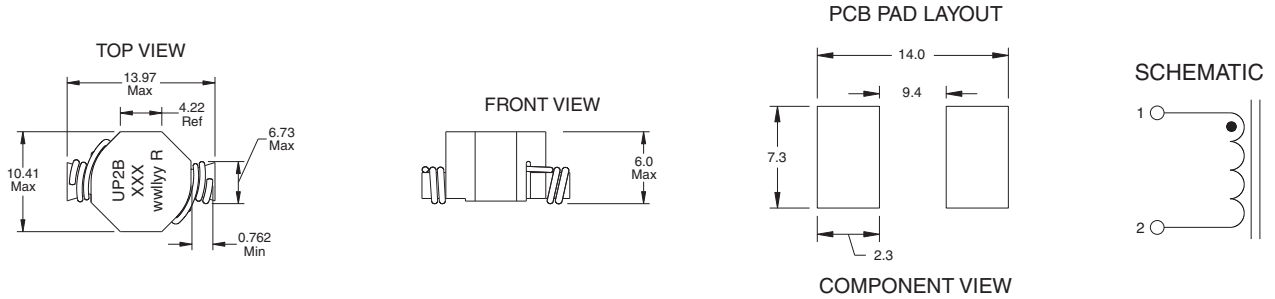
(3) Peak current for approximately 30% rolloff UP1B, 3B, 4B. 10% rolloff UP2B @ 20°C
(4) DCR limits 20°C.

Mechanical Diagrams

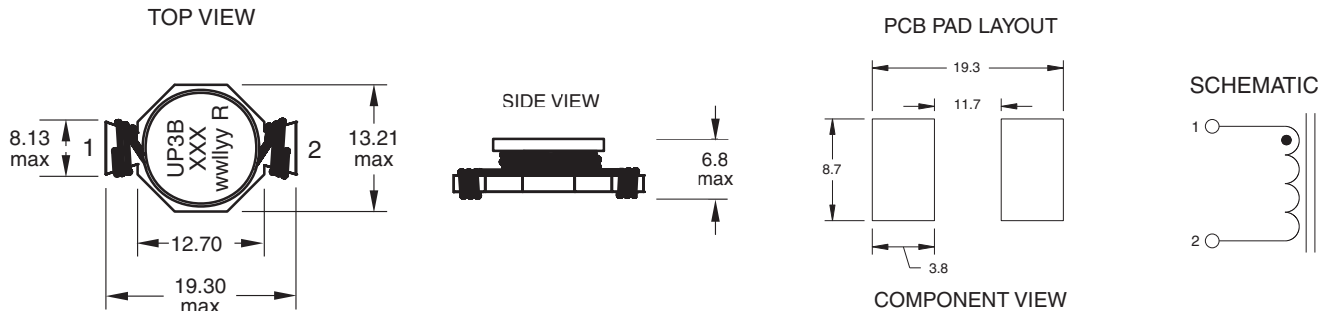
UP1B Series



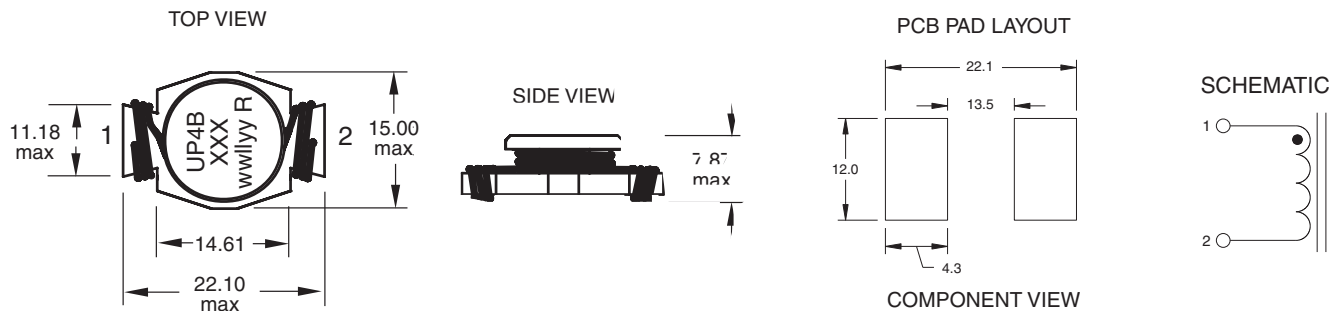
UP2B Series



UP3B Series



UP4B Series

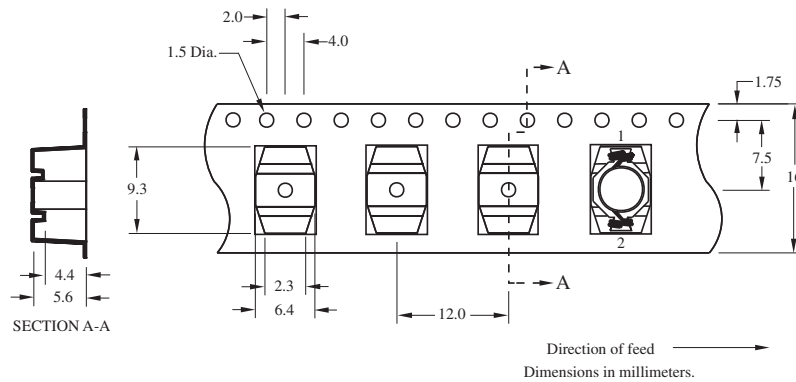


Dimensions in Millimeters.

wwilly = (date code) R = revision level
xxx = Inductance value per family chart

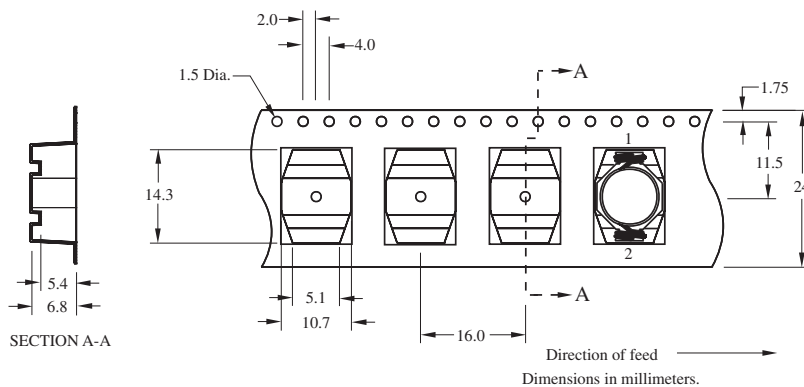
Packaging Information

UP1B Series



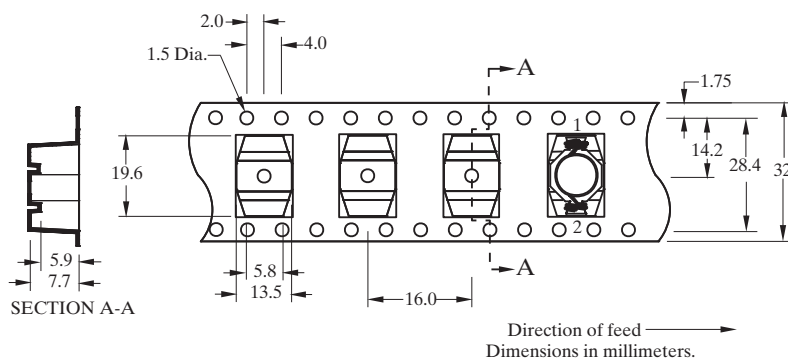
Parts packaged on 13" Diameter reel,
900 parts per reel.

UP2B Series



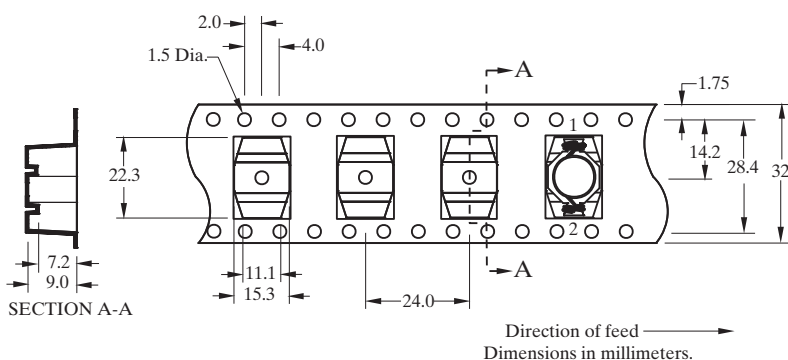
Parts packaged on 13" Diameter reel,
550 parts per reel.

UP3B Series



Parts packaged on 13" Diameter reel,
450 parts per reel.

UP4B Series

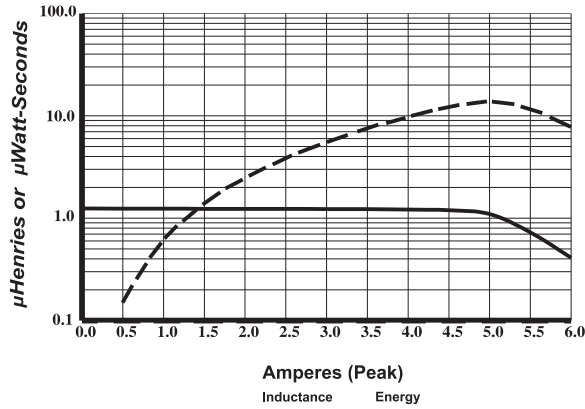


Parts packaged on 13" Diameter reel,
275 parts per reel.

Inductance Characteristics

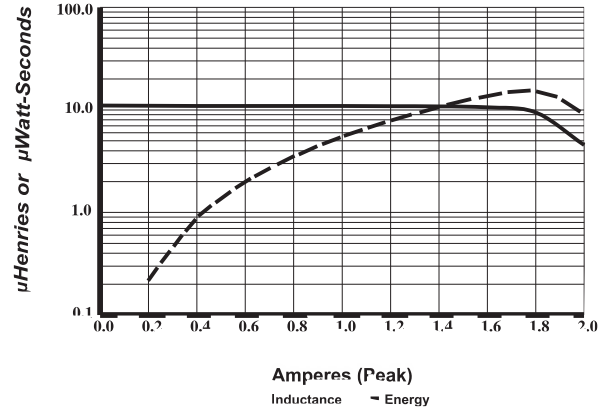
UP1B-1R0

Typical Inductance & Energy vs Saturation Current



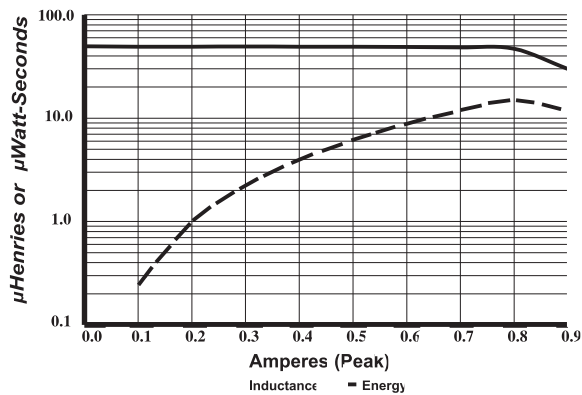
UP1B-100

Typical Inductance & Energy vs Saturation Current



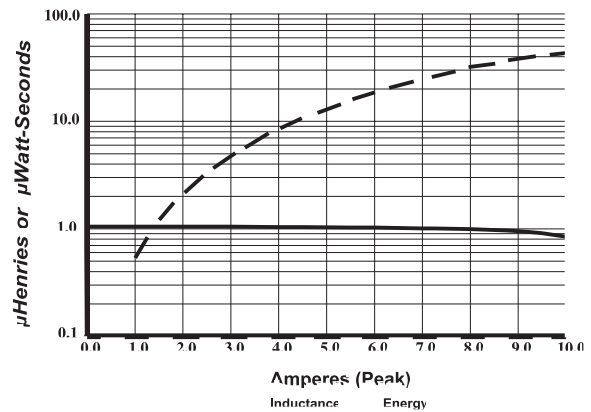
UP1B-470

Typical Inductance & Energy vs Saturation Current



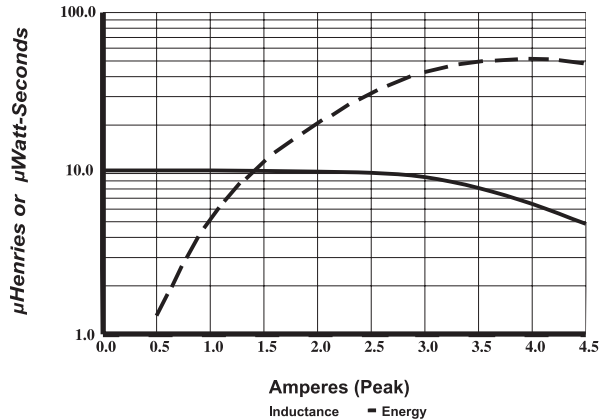
UP2B-1R0

Typical Inductance & Energy vs Saturation Current



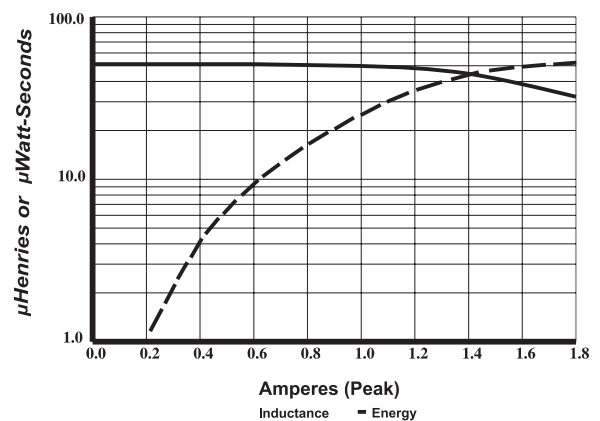
UP2B-100

Typical Inductance & Energy vs Saturation Current



UP2B-470

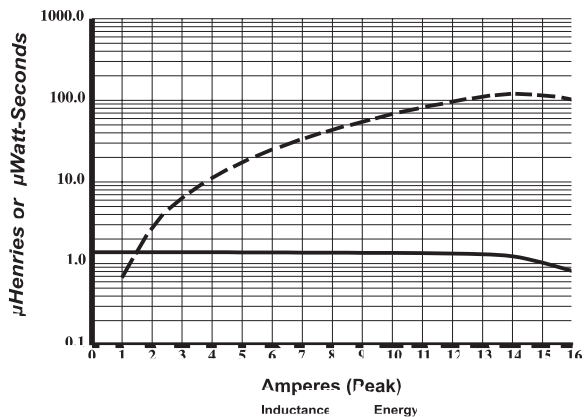
Typical Inductance & Energy vs Saturation Current



Inductance Characteristics

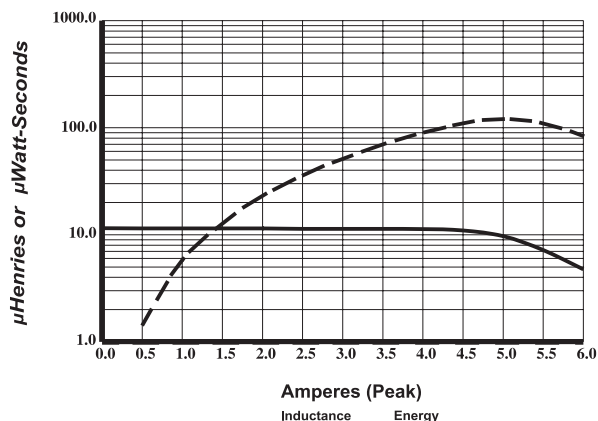
UP3B-1R0

Typical Inductance & Energy vs Saturation Current



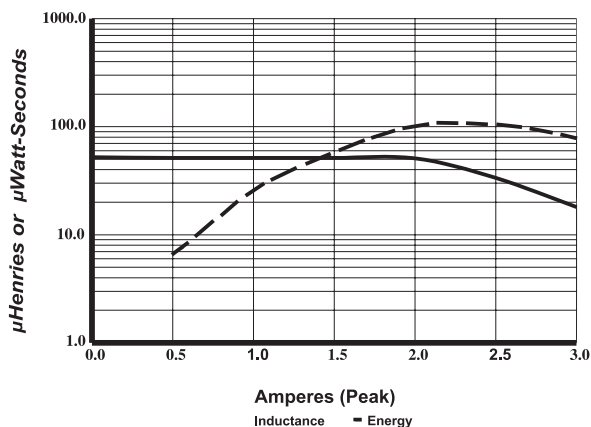
UP3B-100

Typical Inductance & Energy vs Saturation Current



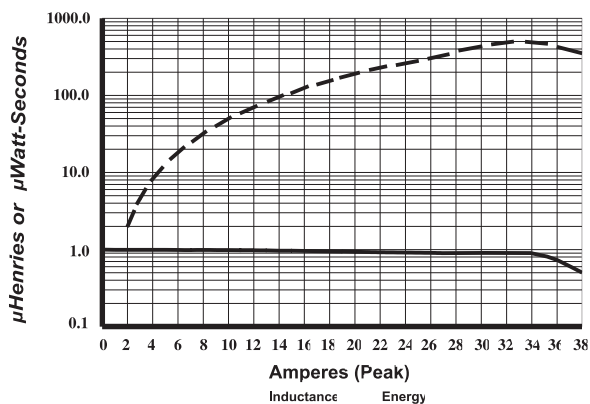
UP3B-470

Typical Inductance & Energy vs Saturation Current



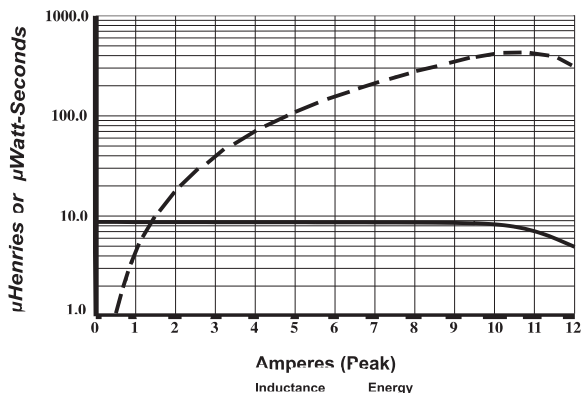
UP4B-1R0

Typical Inductance & Energy vs Saturation Current



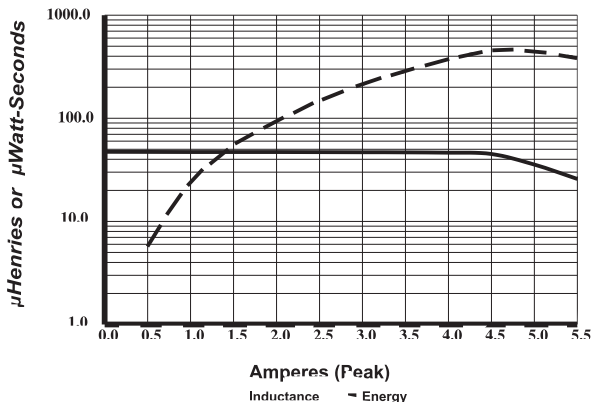
UP4B-100

Typical Inductance & Energy vs Saturation Current



UP4B-470

Typical Inductance & Energy vs Saturation Current





Компания «ЭлектроПласт» предлагает заключение долгосрочных отношений при поставках импортных электронных компонентов на взаимовыгодных условиях!

Наши преимущества:

- Оперативные поставки широкого спектра электронных компонентов отечественного и импортного производства напрямую от производителей и с крупнейших мировых складов;
- Поставка более 17-ти миллионов наименований электронных компонентов;
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- Лицензия ФСБ на осуществление работ с использованием сведений, составляющих государственную тайну;
- Поставка специализированных компонентов (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Aeroflex, Peregrine, Syfer, Eurofarad, Texas Instrument, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

Помимо этого, одним из направлений компании «ЭлектроПласт» является направление «Источники питания». Мы предлагаем Вам помощь Конструкторского отдела:

- Подбор оптимального решения, техническое обоснование при выборе компонента;
- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



Как с нами связаться

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