



Power Inductors – RFB Series



- Low cost, high current power inductors
- 2.2 μ H to 18 mH inductance range
- RFB0810 and RFB1010 have a flame retardant polyolefin wrap to protect the winding.

Core material Ferrite

Terminations Tin-silver over tin over copper over steel. Other terminations available at additional cost.

Ambient temperature -40°C to $+85^{\circ}\text{C}$ with I_{rms} current, $+85^{\circ}\text{C}$ to $+125^{\circ}\text{C}$ with derated current

Storage temperature Component: -40°C to $+85^{\circ}\text{C}$.
Tray packaging: -40°C to $+80^{\circ}\text{C}$

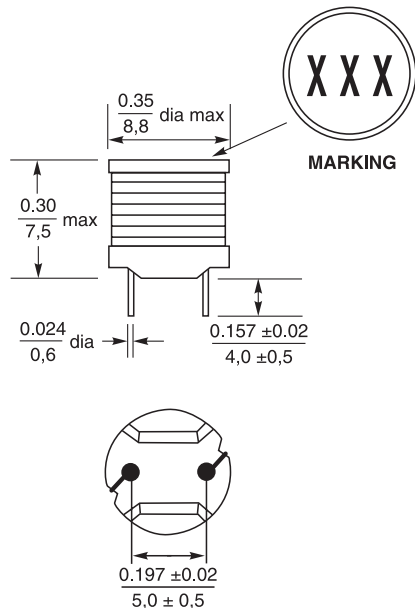
Moisture Sensitivity Level (MSL) 1 (unlimited floor life at $<30^{\circ}\text{C}$ / 85% relative humidity)

Failures in Time (FIT) / Mean Time Between Failures (MTBF)
38 per billion hours / 26,315,789 hours, calculated per Telcordia SR-332

Packaging 150 parts per tray; optional fanfold tape for RFB0807 and RFB0810

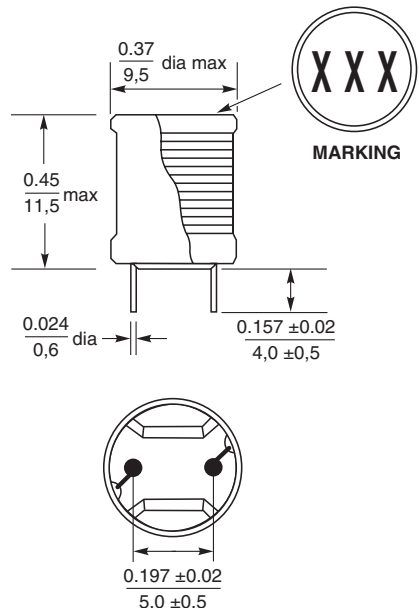
PCB washing Tested with pure water or alcohol only. For other solvents, see Doc787_PCB_Washing.pdf

RFB0807



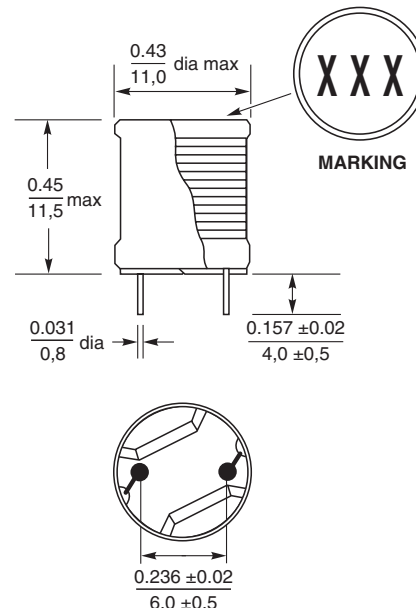
Weight: 1.22 – 1.46 g

RFB0810



Weight: 1.97 – 2.25 g

RFB1010



Weight: 3.04 – 3.32 g



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Document 277-1 Revised 08/06/13

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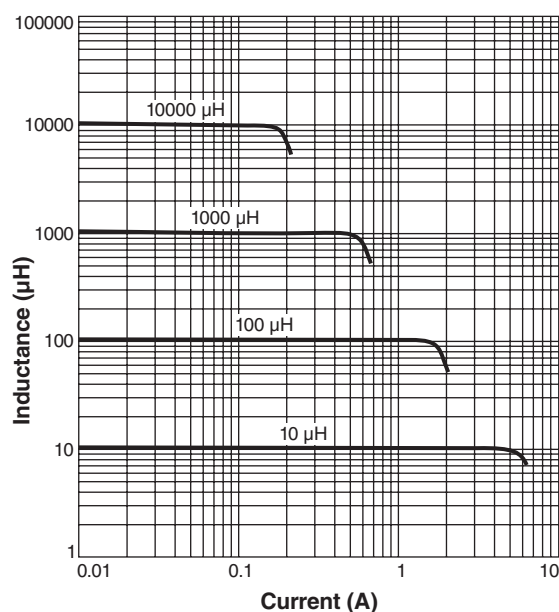
This product may not be used in medical or high risk applications without prior Coilcraft approval. Specification subject to change without notice. Please check web site for latest information.



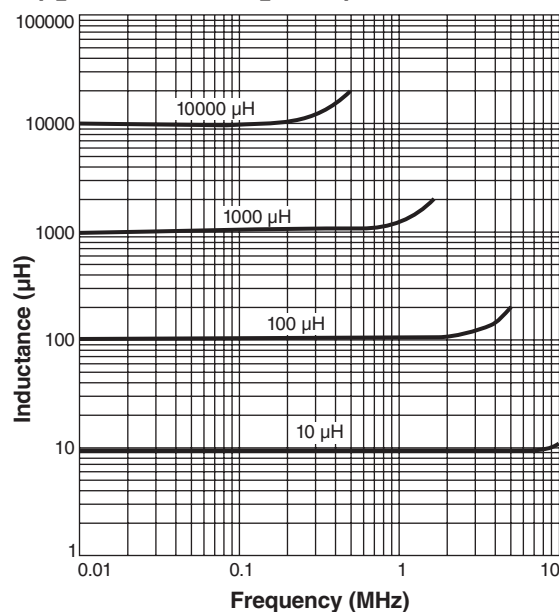
Power Inductors – RFB0807 Series

Part number ¹	Inductance ²	DCR max (Ohms)	SRF typ ³ (MHz)	Isat ⁴ (A)	Irms(A) ⁵	
					20°C rise	40°C rise
RFB0807-2R2L	2.2 μ H $\pm$ 20%	0.012	80	6.00	5.00	7.50
RFB0807-2R7L	2.7 μ H $\pm$ 20%	0.014	40	5.50	4.60	6.54
RFB0807-3R3L	3.3 μ H $\pm$ 20%	0.017	40	5.00	4.20	5.97
RFB0807-3R9L	3.9 μ H $\pm$ 20%	0.020	40	4.50	3.70	5.26
RFB0807-4R7L	4.7 μ H $\pm$ 20%	0.024	40	4.20	3.50	4.98
RFB0807-5R6L	5.6 μ H $\pm$ 20%	0.028	40	4.00	3.40	4.83
RFB0807-6R8L	6.8 μ H $\pm$ 20%	0.033	30	3.60	3.20	4.55
RFB0807-8R2L	8.2 μ H $\pm$ 20%	0.035	30	3.30	3.00	4.27
RFB0807-100L	10 μ H $\pm$ 10%	0.040	30	3.10	3.00	4.20
RFB0807-120L	12 μ H $\pm$ 10%	0.050	30	2.80	2.50	3.56
RFB0807-150L	15 μ H $\pm$ 10%	0.065	25	2.50	2.25	3.20
RFB0807-180L	18 μ H $\pm$ 10%	0.078	20	2.30	2.07	2.94
RFB0807-220L	22 μ H $\pm$ 10%	0.100	20	2.10	1.90	2.70
RFB0807-270L	27 μ H $\pm$ 10%	0.110	17	1.90	1.70	2.42
RFB0807-330L	33 μ H $\pm$ 10%	0.120	15	1.70	1.50	2.13
RFB0807-390L	39 μ H $\pm$ 10%	0.160	13	1.60	1.45	2.06
RFB0807-470L	47 μ H $\pm$ 10%	0.190	12	1.45	1.30	1.85
RFB0807-560L	56 μ H $\pm$ 10%	0.210	11	1.30	1.20	1.71
RFB0807-680L	68 μ H $\pm$ 10%	0.280	10	1.20	1.10	1.56
RFB0807-820L	82 μ H $\pm$ 10%	0.330	9	1.10	1.00	1.42
RFB0807-101L	100 μ H $\pm$ 10%	0.400	8	1.00	0.90	1.30
RFB0807-121L	120 μ H $\pm$ 10%	0.450	7	0.90	0.80	1.14
RFB0807-151L	150 μ H $\pm$ 10%	0.510	6	0.80	0.72	1.02
RFB0807-181L	180 μ H $\pm$ 10%	0.700	5	0.70	0.63	0.90
RFB0807-221L	220 μ H $\pm$ 10%	0.800	5	0.65	0.60	0.85
RFB0807-271L	270 μ H $\pm$ 10%	0.900	4.5	0.60	0.55	0.78
RFB0807-331L	330 μ H $\pm$ 10%	1.16	4.5	0.55	0.50	0.71
RFB0807-391L	390 μ H $\pm$ 10%	1.31	3.5	0.45	0.40	0.57
RFB0807-471L	470 μ H $\pm$ 10%	1.75	2.9	0.40	0.36	0.51
RFB0807-561L	560 μ H $\pm$ 10%	1.95	2.7	0.38	0.35	0.50
RFB0807-681L	680 μ H $\pm$ 10%	2.20	2.6	0.35	0.31	0.44
RFB0807-821L	820 μ H $\pm$ 10%	3.00	2.6	0.32	0.29	0.41
RFB0807-102L	1.0 mH $\pm$ 10%	3.40	2.6	0.30	0.25	0.40
RFB0807-122L	1.2 mH $\pm$ 10%	4.50	2.3	0.28	0.24	0.34
RFB0807-152L	1.5 mH $\pm$ 10%	5.20	2.1	0.25	0.21	0.30
RFB0807-182L	1.8 mH $\pm$ 10%	5.80	1.8	0.22	0.20	0.28
RFB0807-222L	2.2 mH $\pm$ 10%	8.00	1.5	0.20	0.18	0.26
RFB0807-272L	2.7 mH $\pm$ 10%	8.90	1.2	0.18	0.17	0.24
RFB0807-332L	3.3 mH $\pm$ 10%	11.8	1.1	0.15	0.14	0.19
RFB0807-392L	3.9 mH $\pm$ 10%	13.1	1.0	0.12	0.11	0.16
RFB0807-472L	4.7 mH $\pm$ 10%	17.6	1.0	0.10	0.10	0.15
RFB0807-562L	5.6 mH $\pm$ 10%	19.6	0.9	0.10	0.10	0.15
RFB0807-682L	6.8 mH $\pm$ 10%	27	0.8	0.10	0.10	0.14
RFB0807-822L	8.2 mH $\pm$ 10%	30	0.7	0.10	0.10	0.14
RFB0807-103L	10 mH $\pm$ 10%	34	0.7	0.10	0.10	0.13
RFB0807-123L	12 mH $\pm$ 10%	46	0.6	0.08	0.10	0.13
RFB0807-153L	15 mH $\pm$ 10%	53	0.5	0.06	0.08	0.11
RFB0807-183L	18 mH $\pm$ 10%	56	0.5	0.05	0.08	0.10

Typical L vs Current



Typical L vs Frequency



1. When ordering, please specify **termination** code:

RFB0807-183L

Termination: L = Tin-silver over tin over copper over steel.

Special order: T = RoHS tin-silver-copper (95.5/4/0.5)

or **S** = non-RoHS tin-lead (63/37).

To order parts packaged in fanfold tape (800 parts per box), add the letter "F" at the end of the part number.

- Inductance tested at 100 kHz, 0.1 Vrms, 0 Adc on an Agilent/HP 4284A LCR-meter or equivalent.
- SRF measured using Agilent/HP 4191A or equivalent.
- DC current at which the inductance drops 10% (typ) from its value without current.
- Current that causes the specified temperature rise from 25°C ambient.
- Electrical specifications at 25°C.



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Document 277-2 Revised 08/06/13

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Power Inductors – RFB0810 Series

Part number ¹	Inductance ² ±10%	DCR max (Ohms)	SRF typ ³ (MHz)	Isat ⁴ (A)	Irms(A) ⁵	
					20°C rise	40°C rise
RFB0810-100L	10 µH	0.030	22	4.20	4.00	5.30
RFB0810-120L	12 µH	0.035	20	3.90	3.75	5.10
RFB0810-150L	15 µH	0.040	17	3.60	3.52	4.80
RFB0810-180L	18 µH	0.040	15	3.30	3.30	4.50
RFB0810-220L	22 µH	0.050	12	2.90	3.20	4.20
RFB0810-270L	27 µH	0.055	12	2.60	2.87	3.90
RFB0810-330L	33 µH	0.075	11	2.40	2.65	3.60
RFB0810-390L	39 µH	0.085	10.3	2.20	2.44	3.30
RFB0810-470L	47 µH	0.100	9.5	2.00	2.22	3.00
RFB0810-560L	56 µH	0.120	8.6	1.80	2.00	2.70
RFB0810-680L	68 µH	0.150	7.5	1.60	1.77	2.40
RFB0810-820L	82 µH	0.190	6.6	1.50	1.54	2.10
RFB0810-101L	100 µH	0.200	5.5	1.40	1.30	1.80
RFB0810-121L	120 µH	0.240	5.3	1.20	1.22	1.70
RFB0810-151L	150 µH	0.340	4.5	1.10	1.14	1.60
RFB0810-181L	180 µH	0.360	4.4	1.00	1.06	1.50
RFB0810-221L	220 µH	0.480	4.4	0.92	0.98	1.40
RFB0810-271L	270 µH	0.550	4.0	0.84	0.90	1.30
RFB0810-331L	330 µH	0.650	3.5	0.75	0.82	1.10
RFB0810-391L	390 µH	0.850	3.0	0.70	0.85	1.00
RFB0810-471L	470 µH	1.00	2.5	0.63	0.67	0.90
RFB0810-561L	560 µH	1.10	2.3	0.58	0.59	0.80
RFB0810-681L	680 µH	1.40	2.0	0.52	0.51	0.70
RFB0810-821L	820 µH	1.90	2.0	0.48	0.43	0.60
RFB0810-102L	1.0 mH	2.20	2.0	0.43	0.35	0.50
RFB0810-122L	1.2 mH	2.80	1.6	0.40	0.33	0.47
RFB0810-152L	1.5 mH	3.20	1.3	0.35	0.31	0.45
RFB0810-182L	1.8 mH	3.60	1.3	0.32	0.29	0.42
RFB0810-222L	2.2 mH	4.80	1.3	0.29	0.27	0.39
RFB0810-272L	2.7 mH	5.60	1.2	0.26	0.25	0.36
RFB0810-332L	3.3 mH	7.60	1.0	0.24	0.23	0.33
RFB0810-392L	3.9 mH	8.90	0.9	0.22	0.21	0.31
RFB0810-472L	4.7 mH	9.60	0.9	0.20	0.20	0.28
RFB0810-562L	5.6 mH	12.0	0.8	0.18	0.18	0.25
RFB0810-682L	6.8 mH	14.0	0.7	0.16	0.16	0.23
RFB0810-822L	8.2 mH	17.5	0.6	0.15	0.14	0.20
RFB0810-103L	10 mH	21	0.6	0.13	0.12	0.17
RFB0810-123L	12 mH	28	0.5	0.12	0.11	0.15
RFB0810-153L	15 mH	32	0.5	0.11	0.10	0.14
RFB0810-183L	18 mH	36	0.4	0.10	0.09	0.12

1. When ordering, please specify **termination** code:

RFB0810-183L

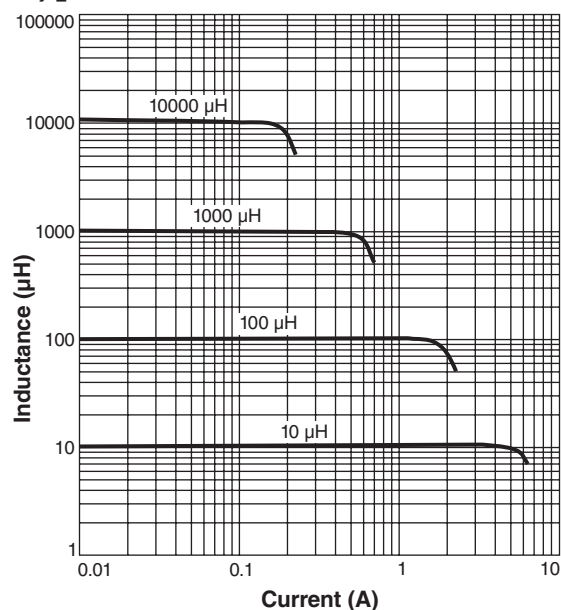
Termination: L = Tin-silver over tin over copper over steel.

Special order: T = RoHS tin-silver-copper (95.5/4/0.5)
or **S** = non-RoHS tin-lead (63/37).

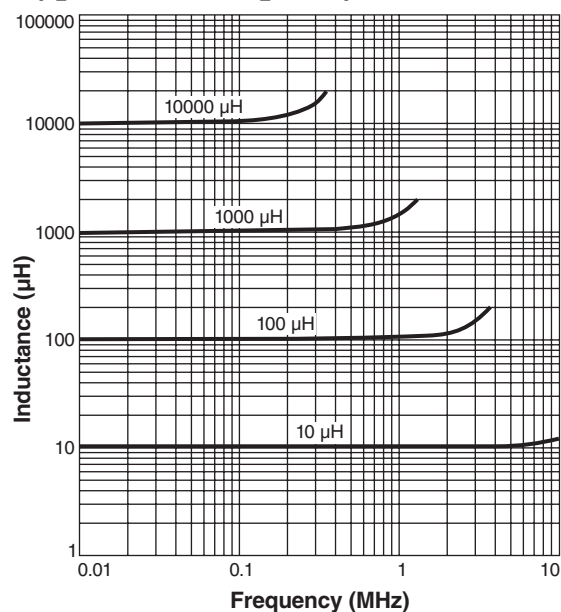
To order parts packaged in fanfold tape (800 parts per box), add the letter "F" at the end of the part number.

- Inductance tested at 100 kHz, 0.1 Vrms, 0 Adc on an Agilent/HP 4284A LCR-meter or equivalent.
- SRF measured using Agilent/HP 4191A or equivalent.
- DC current at which the inductance drops 10% (typ) from its value without current.
- Current that causes the specified temperature rise from 25°C ambient.
- Electrical specifications at 25°C.

Typical L vs Current



Typical L vs Frequency





Power Inductors – RFB1010 Series

Part number ¹	Inductance ² ±10%	DCR max (Ohms)	SRF typ ³ (MHz)	Isat ⁴ (A)	Irms(A) ⁵	
					20°C rise	40°C rise
RFB1010-100L	10 µH	0.023	23	6.10	4.20	6.00
RFB1010-120L	12 µH	0.025	20	5.60	4.00	5.70
RFB1010-150L	15 µH	0.028	19	5.00	3.75	5.40
RFB1010-180L	18 µH	0.030	16	4.60	3.50	5.00
RFB1010-220L	22 µH	0.042	15	4.10	3.30	4.70
RFB1010-270L	27 µH	0.046	12	3.70	3.00	4.40
RFB1010-330L	33 µH	0.055	11	3.40	2.80	4.10
RFB1010-390L	39 µH	0.075	10.3	3.10	2.60	3.80
RFB1010-470L	47 µH	0.082	9.5	2.80	2.40	3.50
RFB1010-560L	56 µH	0.090	8.6	2.60	2.20	3.20
RFB1010-680L	68 µH	0.120	7.5	2.30	2.00	2.80
RFB1010-820L	82 µH	0.140	7.0	2.10	1.90	2.50
RFB1010-101L	100 µH	0.150	7.0	1.90	1.70	2.20
RFB1010-121L	120 µH	0.210	6.0	1.75	1.60	2.10
RFB1010-151L	150 µH	0.245	5.0	1.60	1.50	1.90
RFB1010-181L	180 µH	0.30	5.0	1.45	1.40	1.80
RFB1010-221L	220 µH	0.36	4.3	1.30	1.30	1.70
RFB1010-271L	270 µH	0.49	4.0	1.20	1.20	1.60
RFB1010-331L	330 µH	0.57	3.5	1.10	1.00	1.40
RFB1010-391L	390 µH	0.62	3.0	1.00	0.90	1.30
RFB1010-471L	470 µH	0.81	3.0	0.90	0.80	1.20
RFB1010-561L	560 µH	0.92	2.3	0.80	0.70	1.05
RFB1010-681L	680 µH	1.20	2.0	0.75	0.60	0.93
RFB1010-821L	820 µH	1.35	2.0	0.68	0.55	0.80
RFB1010-102L	1.0 mH	1.45	2.0	0.60	0.50	0.67
RFB1010-122L	1.2 mH	2.10	1.6	0.55	0.47	0.63
RFB1010-152L	1.5 mH	2.40	1.4	0.50	0.44	0.59
RFB1010-182L	1.8 mH	3.50	1.3	0.45	0.41	0.55
RFB1010-222L	2.2 mH	4.10	1.3	0.41	0.38	0.50
RFB1010-272L	2.7 mH	5.20	1.2	0.37	0.35	0.47
RFB1010-332L	3.3 mH	6.00	1.0	0.34	0.32	0.43
RFB1010-392L	3.9 mH	7.00	0.9	0.31	0.29	0.39
RFB1010-472L	4.7 mH	8.50	0.8	0.28	0.25	0.35
RFB1010-562L	5.6 mH	10.0	0.8	0.26	0.23	0.30
RFB1010-682L	6.8 mH	13.0	0.7	0.23	0.19	0.26
RFB1010-822L	8.2 mH	15.8	0.6	0.21	0.16	0.22
RFB1010-103L	10 mH	19	0.6	0.19	0.13	0.18
RFB1010-123L	12 mH	22	0.5	0.17	0.12	0.17
RFB1010-153L	15 mH	29	0.5	0.16	0.11	0.15
RFB1010-183L	18 mH	33	0.4	0.14	0.10	0.13

1. When ordering, please specify **termination** code:

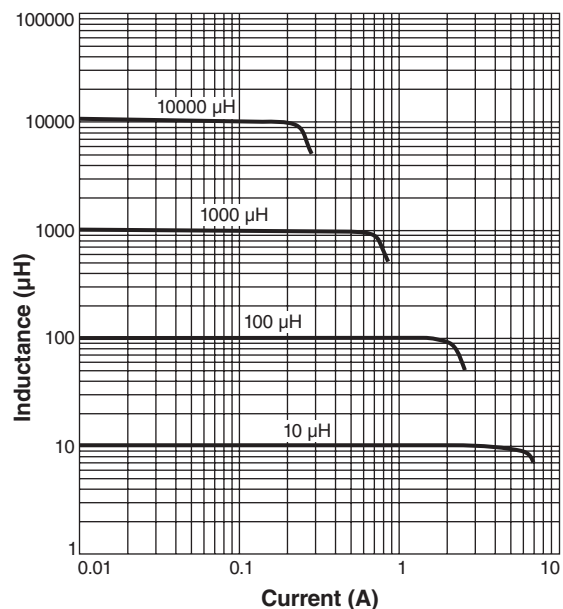
RFB1010-183L

Termination: L = Tin-silver over tin over copper over steel.

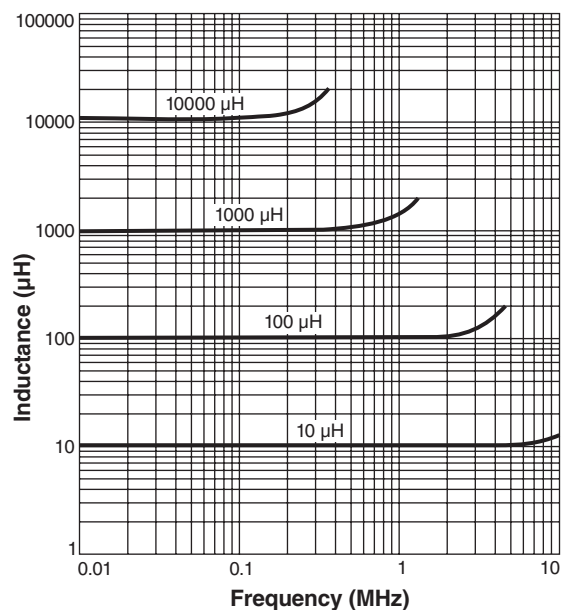
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or S = non-RoHS tin-lead (63/37).

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Typical L vs Current



Typical L vs Frequency



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

Наши преимущества:

- Поставка оригинальных импортных электронных компонентов напрямую с производств Америки, Европы и Азии, а так же с крупнейших складов мира;
- Широкая линейка поставок активных и пассивных импортных электронных компонентов (более 30 млн. наименований);
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Помощь Конструкторского Отдела и консультации квалифицированных инженеров;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Поставка электронных компонентов под контролем ВП;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- При необходимости вся продукция военного и аэрокосмического назначения проходит испытания и сертификацию в лаборатории (по согласованию с заказчиком);
- Поставка специализированных компонентов военного и аэрокосмического уровня качества (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Actel, Aeroflex, Peregrine, VPT, Syfer, Eurofarad, Texas Instruments, MS Kennedy, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

Компания «Океан Электроники» является официальным дистрибьютором и эксклюзивным представителем в России одного из крупнейших производителей разъемов военного и аэрокосмического назначения «JONHON», а так же официальным дистрибьютором и эксклюзивным представителем в России производителя высокотехнологичных и надежных решений для передачи СВЧ сигналов «FORSTAR».



JONHON

«JONHON» (основан в 1970 г.)

Разъемы специального, военного и аэрокосмического назначения:

(Применяются в военной, авиационной, аэрокосмической, морской, железнодорожной, горно- и нефтедобывающей отраслях промышленности)

«FORSTAR» (основан в 1998 г.)

ВЧ соединители, коаксиальные кабели,
кабельные сборки и микроволновые компоненты:

(Применяются в телекоммуникациях гражданского и специального назначения, в средствах связи, РЛС, а так же военной, авиационной и аэрокосмической отраслях промышленности).



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Факс: 8 (812) 320-03-32

Электронная почта: ocean@oceanchips.ru

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