

磁屏蔽电感

Shielded Power Inductor (SMD)



特性

Characteristics

具有高功率、高饱和电流、低阻抗、小型化之特性
Various high power inductors are superior to be high saturation for surface mounting

应用

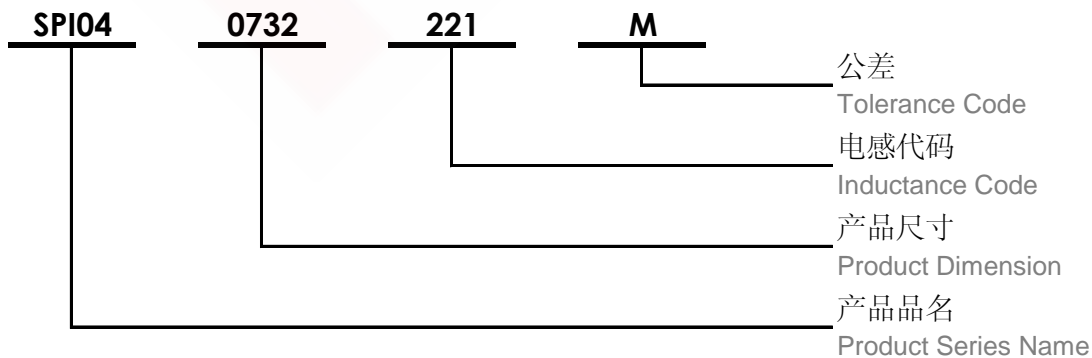
Application

录影机, OA仪器, 数码相机, 液晶电视, 笔记本电脑, 小型通信设备, DC/DC转换器

Power supply for TVR, OA equipment Digital camera, LCD television set notebook PC, portable communication equipments, DC/DC converters, etc

产品品名介绍

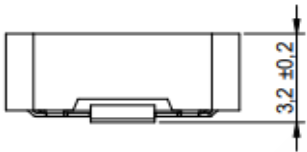
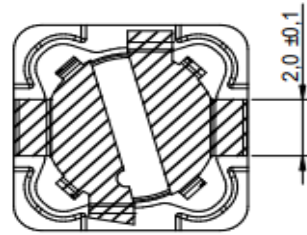
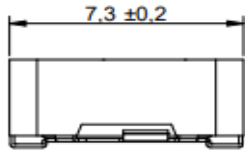
Product Number Structure





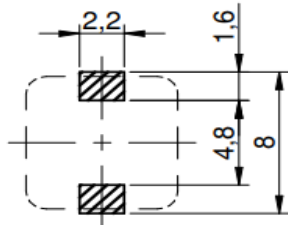
尺寸

Dimension (mm)



焊盘推荐

Land Pattern Recommended (mm)



示意图

Schematics



电性特性

Electrical Properties

型号 Part No.	电感 Inductance μH	温升电流 Rated Current I _r typ 40°C (A)	直流电阻 DC Resistance DCR _{max} (mΩ)	饱和电流 Saturation Current I _{sat} typ (A)	卷盘数量 Taping Reel Qty. pcs
SPI04-0703-R54M	0.54 ±20%	5.60	8.50	9.00	1,000
SPI04-0703-1R0M	1.00 ±20%	5.37	12.00	6.40	1,000
SPI04-0703-2R2M	2.20 ±20%	4.02	20.00	4.80	1,000
SPI04-0703-3R3M	3.30 ±20%	3.10	32.00	4.10	1,000
SPI04-0703-4R7M	4.70 ±20%	2.32	60.00	2.20	1,000
SPI04-0703-100M	10.00 ±20%	1.83	72.00	2.15	1,000
SPI04-0703-120M	12.00 ±20%	1.73	98.00	1.75	1,000
SPI04-0703-150M	15.00 ±20%	1.51	130.00	1.70	1,000
SPI04-0703-180M	18.00 ±20%	1.41	140.00	1.40	1,000
SPI04-0703-220M	22.00 ±20%	1.38	190.00	1.30	1,000

测试状态

Test Condition

☆ 电感测试条件为 1.0kHz / 250mV

Inductance measure condition at 1.0kHz / 250mV

☆ 工作温度: -40°C ~ +125°C

Operating Temperature: -40°C ~ +125°C

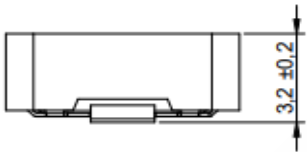
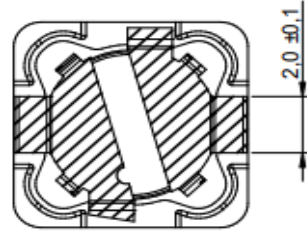
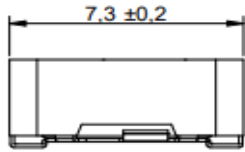
☆ 饱和电流: 电感值下降其初始值的10%时所加载的实际直流电流值

Saturation Current: The actual value of DC current when the inductance drop 10% of initial value



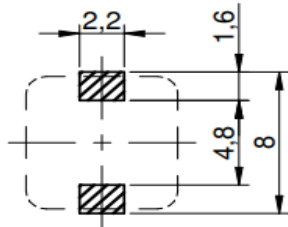
尺寸

Dimension (mm)



焊盘推荐

Land Pattern Recommended (mm)



示意图

Schematics



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SPI04-0703-270M	27.00 ±20%	1.27	240	1.30	1,000
SPI04-0703-330M	33.00 ±20%	1.22	240	1.15	1,000
SPI04-0703-390M	39.00 ±20%	1.03	320	1.10	1,000
SPI04-0703-470M	47.00 ±20%	0.85	360	1.00	1,000
SPI04-0703-560M	56.00 ±20%	0.84	470	0.88	1,000
SPI04-0703-680M	68.00 ±20%	0.74	520	0.84	1,000
SPI04-0703-820M	82.00 ±20%	0.69	680	0.78	1,000
SPI04-0703-101M	100.00 ±20%	0.62	790	0.76	1,000
SPI04-0703-121M	120.00 ±20%	0.60	890	0.68	1,000
SPI04-0703-151M	150.00 ±20%	0.56	1,270	0.53	1,000

测试状态

Test Condition

☆ 电感测试条件为 1.0kHz / 250mV

Inductance measure condition at 1.0kHz / 250mV

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Operating Temperature: -40°C ~ +125°C

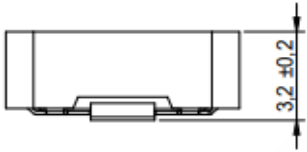
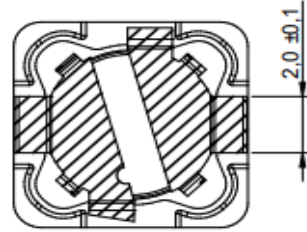
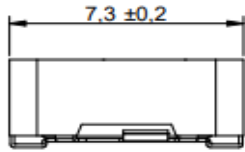
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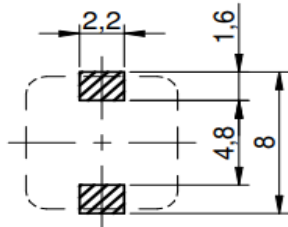
尺寸

Dimension (mm)



焊盘推荐

Land Pattern Recommended (mm)



示意图

Schematics



电性特性

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SPI04-0703-181M	180 ±20%	0.49	1,450	0.50	1,000
SPI04-0703-221M	220 ±20%	0.43	1,650	0.42	1,000
SPI04-0703-271M	270 ±20%	0.40	2,310	0.39	1,000
SPI04-0703-331M	330 ±20%	0.32	2,620	0.35	1,000
SPI04-0703-391M	390 ±20%	0.30	2,940	0.34	1,000
SPI04-0703-471M	470 ±20%	0.30	4,180	0.31	1,000
SPI04-0703-561M	560 ±20%	0.27	4,670	0.30	1,000
SPI04-0703-681M	680 ±20%	0.22	5,730	0.22	1,000
SPI04-0703-821M	820 ±20%	0.21	6,500	0.20	1,000
SPI04-0703-102M	1,000 ±20%	0.20	9,440	0.18	1,000

测试状态

Test Condition

☆ 电感测试条件为 1.0kHz / 250mV

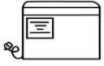
Inductance measure condition at 1.0kHz / 250mV

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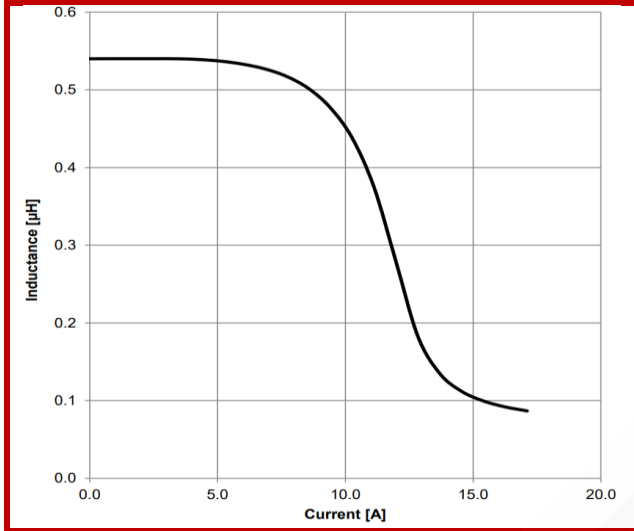
Saturation Current: The actual value of DC current when the inductance drop 10% of initial value



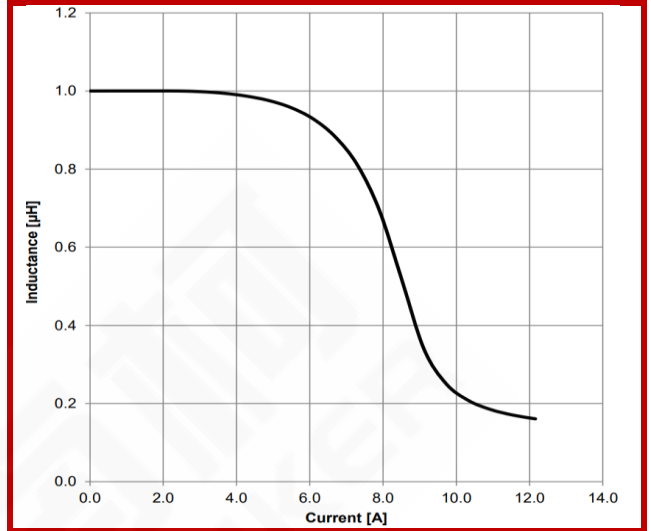
典型电感与电流特性

Typical Inductance vs. Current Characteristics

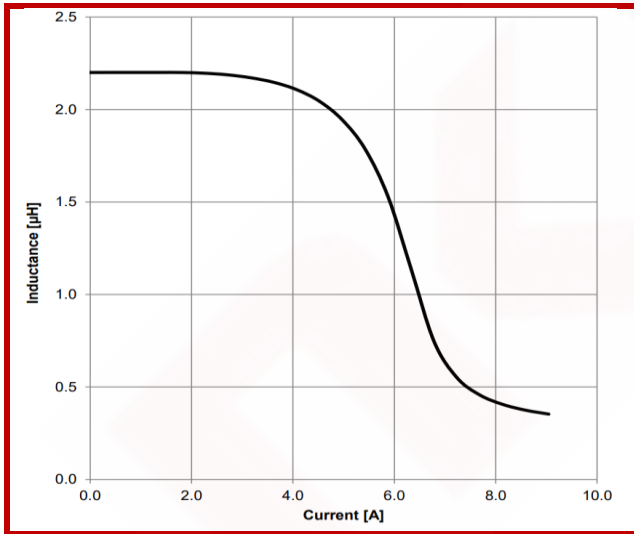
SPI04-0703-R54M



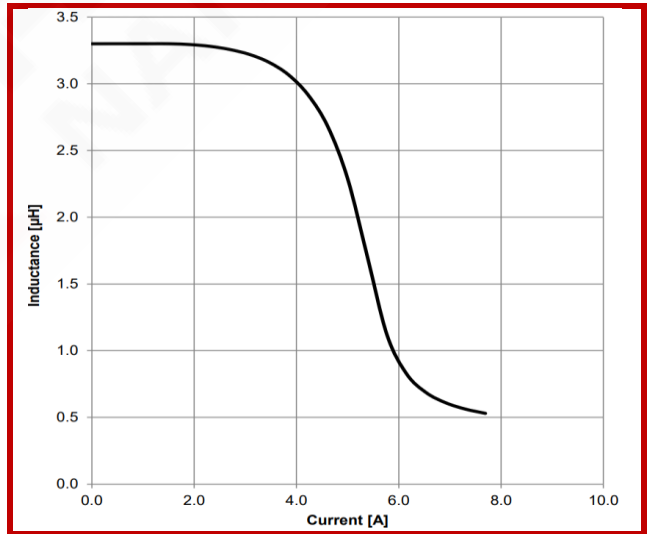
SPI04-0703-1R0M



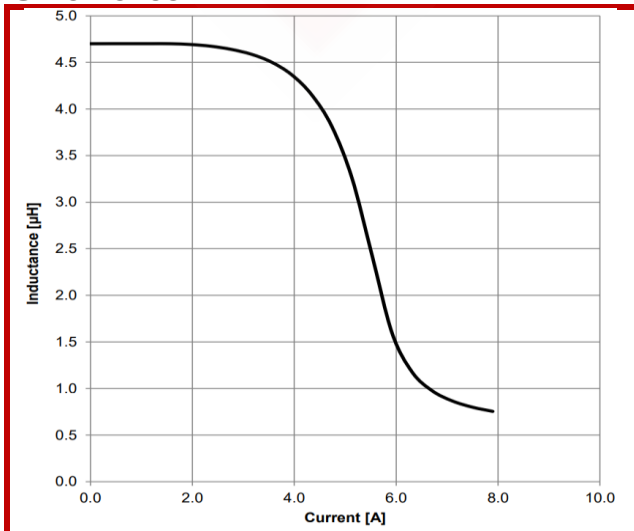
SPI04-0703-2R2M



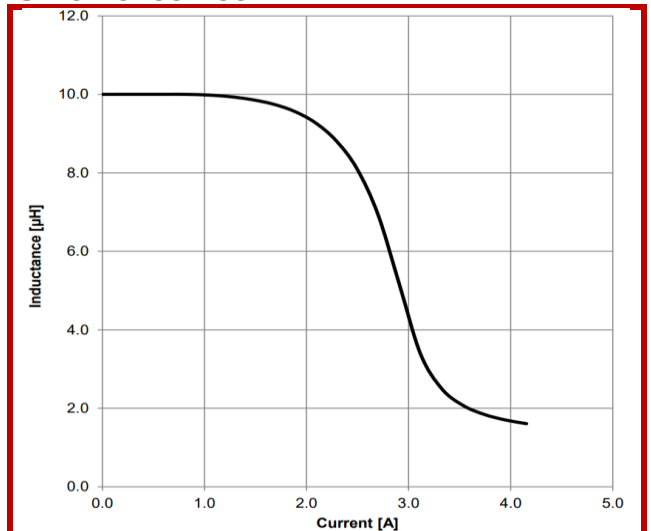
SPI04-0703-3R3M



SPI04-0703-4R7M



SPI04-0703-100M

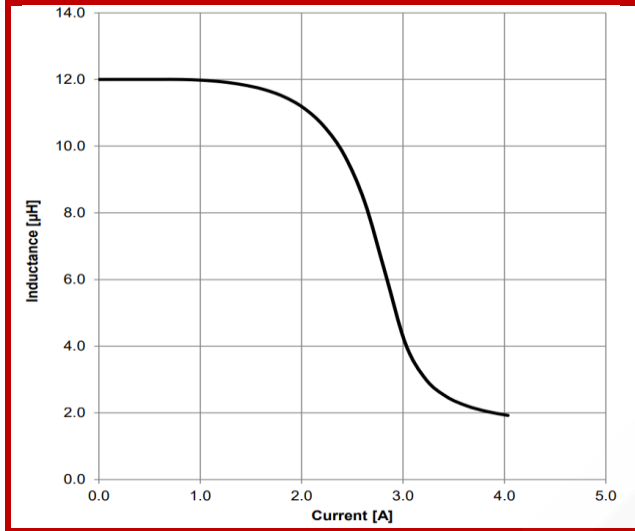




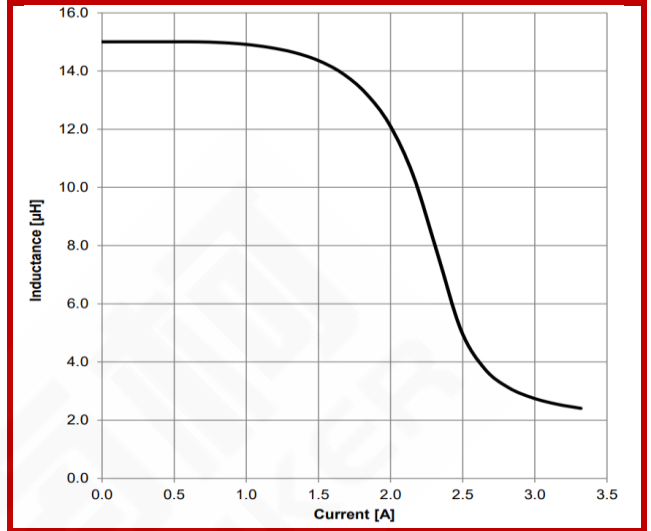
典型电感与电流特性

Typical Inductance vs. Current Characteristics

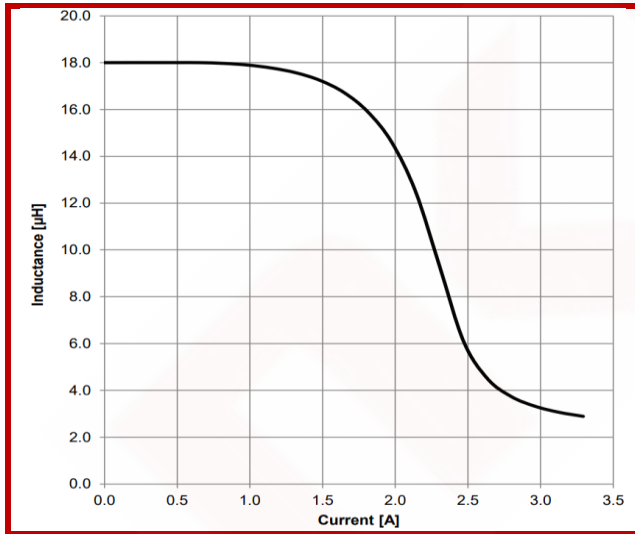
SPI04-0703-120M



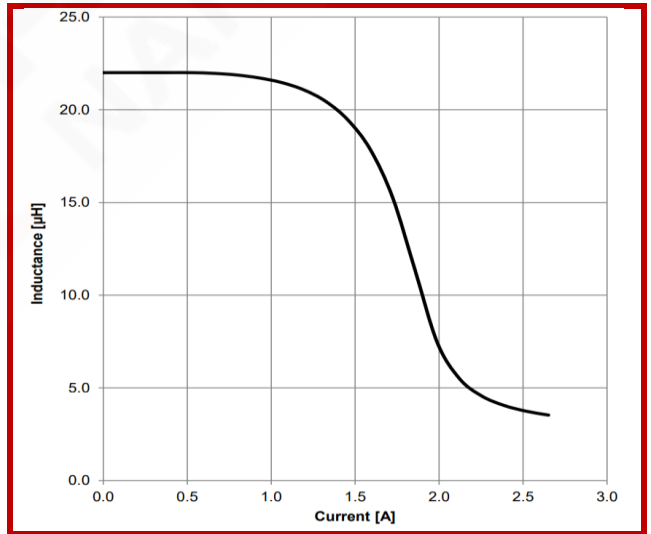
SPI04-0703-150M



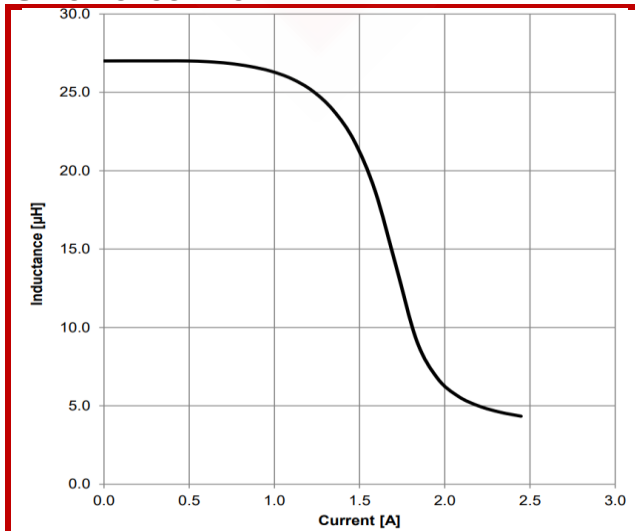
SPI04-0703-180M



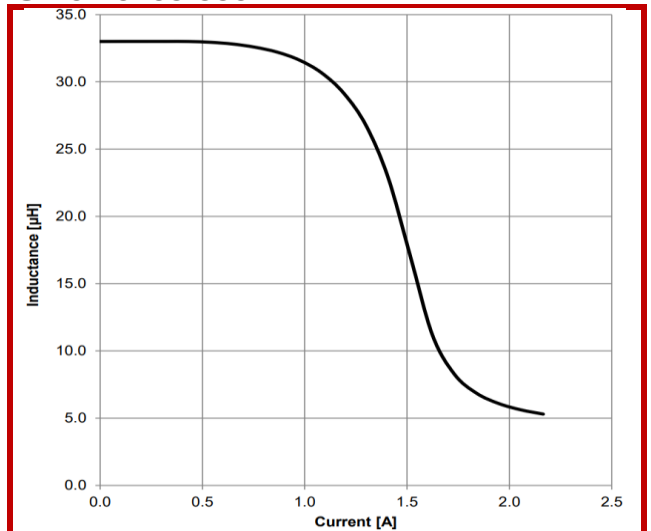
SPI04-0703-220M



SPI04-0703-270M



SPI04-0703-330M

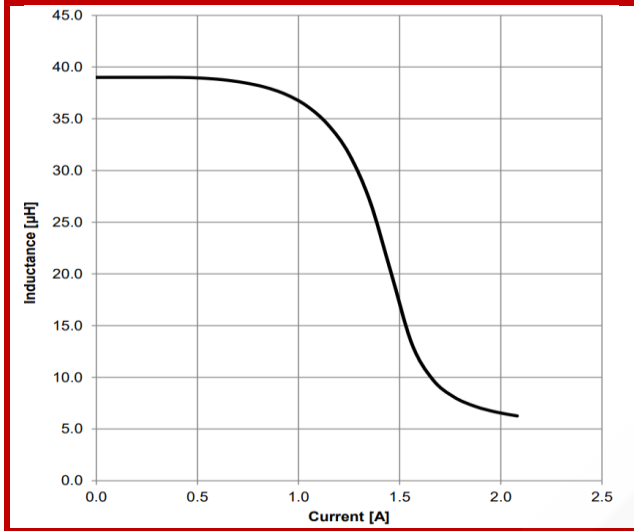




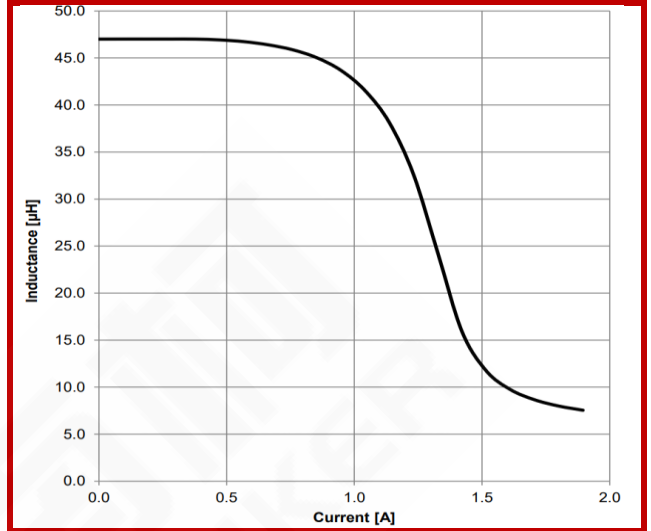
典型电感与电流特性

Typical Inductance vs. Current Characteristics

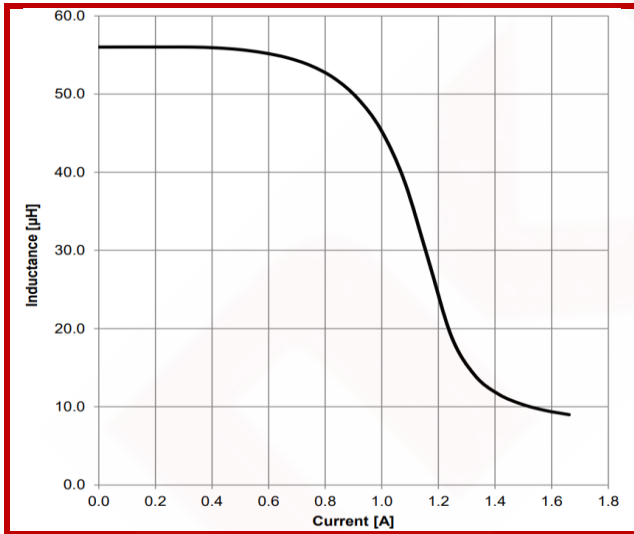
SPI04-0703-390M



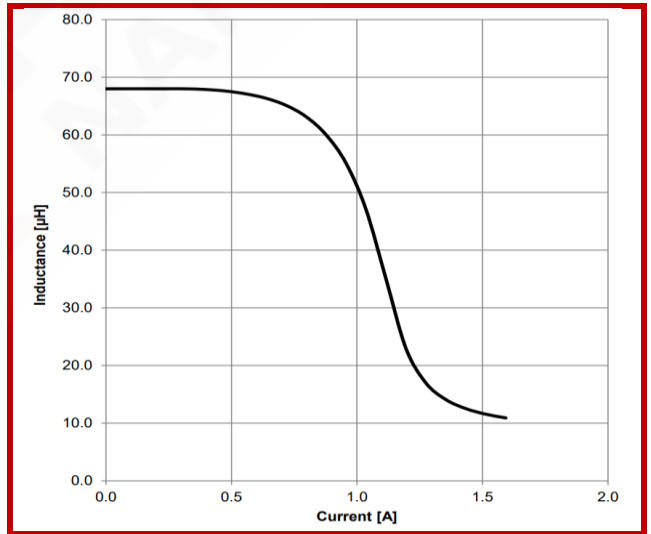
SPI04-0703-470M



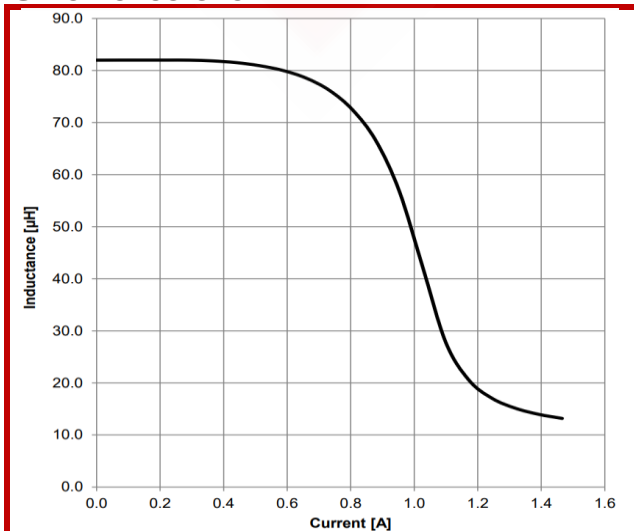
SPI04-0703-560M



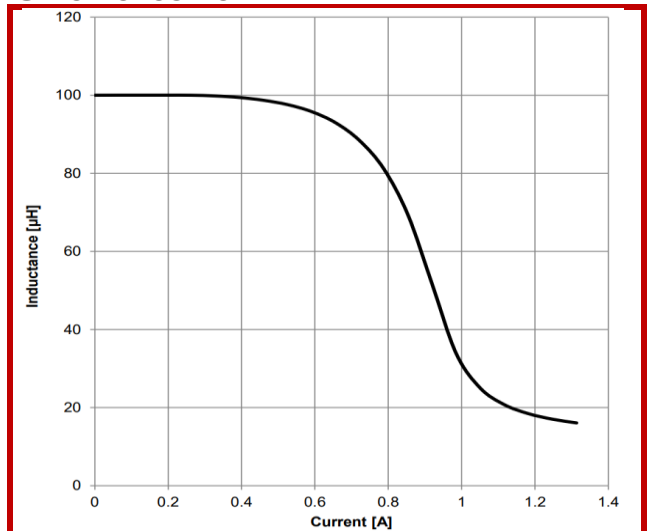
SPI04-0703-680M



SPI04-0703-820M



SPI04-0703-101M

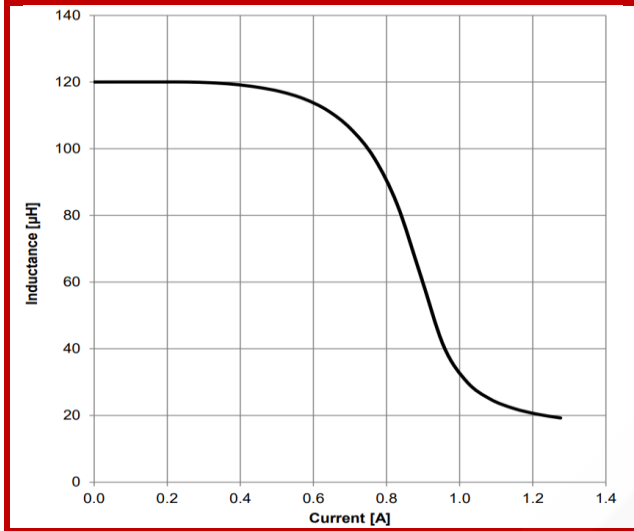




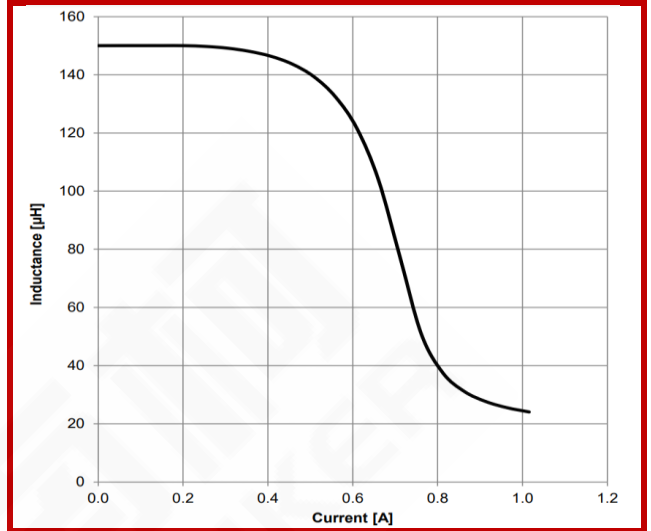
典型电感与电流特性

Typical Inductance vs. Current Characteristics

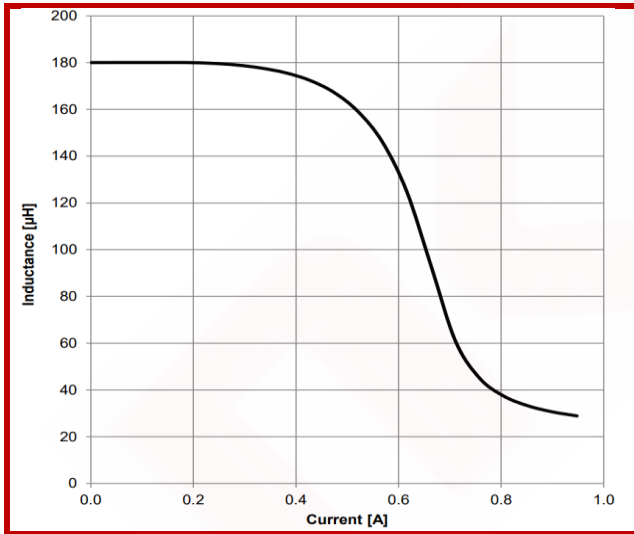
SPI04-0703-121M



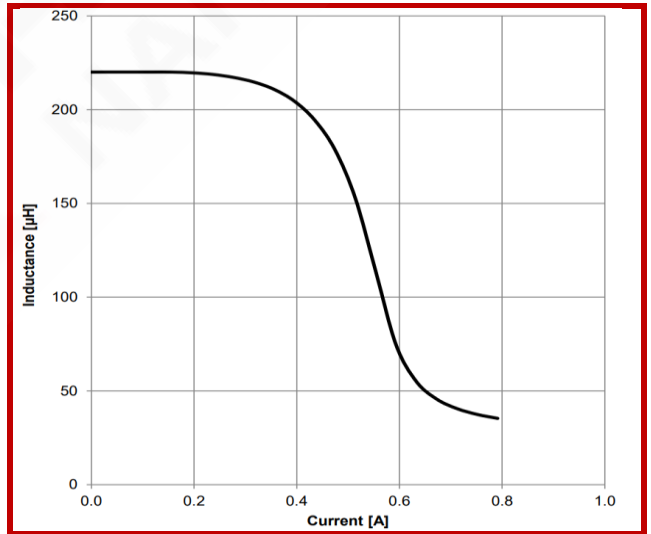
SPI04-0703-151M



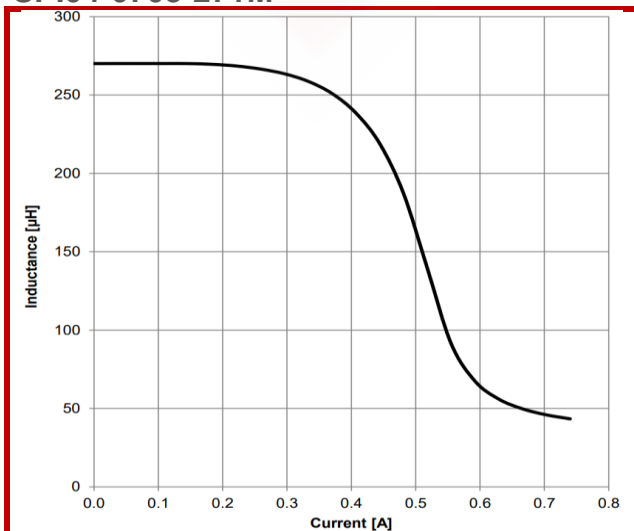
SPI04-0703-181M



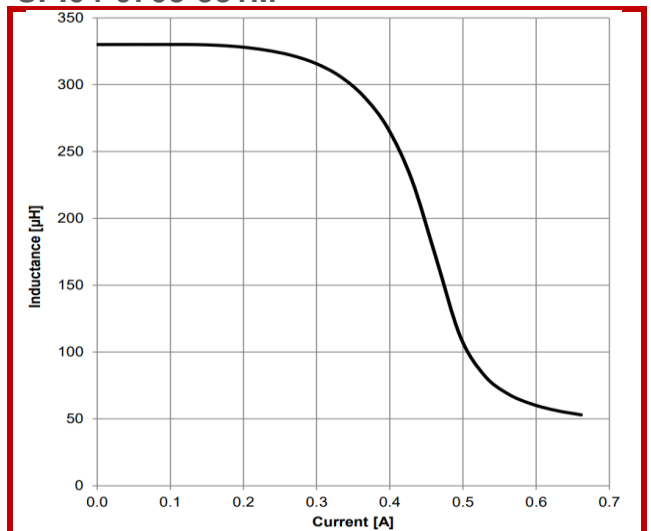
SPI04-0703-221M



SPI04-0703-271M



SPI04-0703-331M

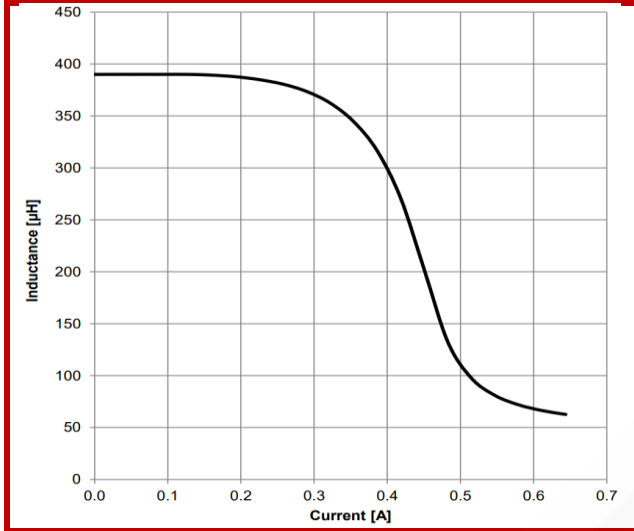




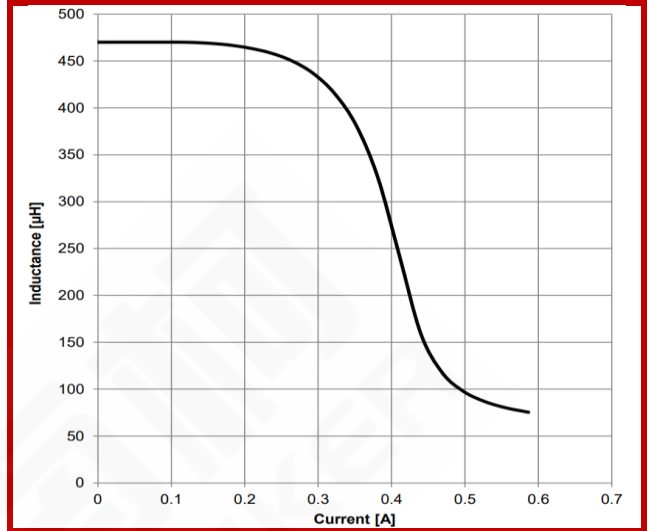
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Typical Inductance vs. Current Characteristics

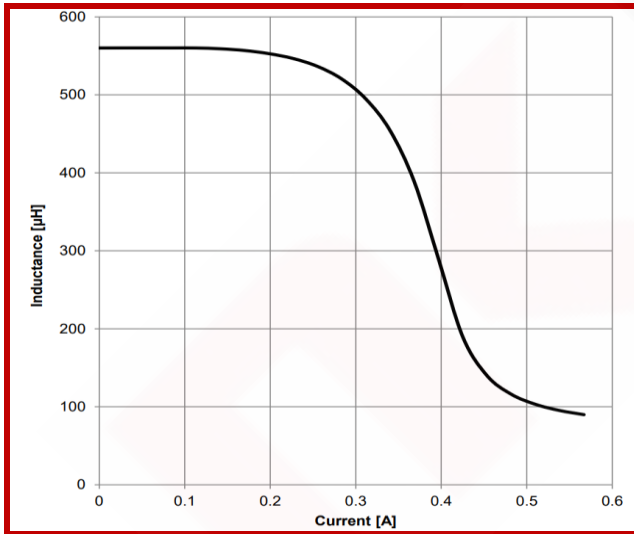
SPI04-0703-391M



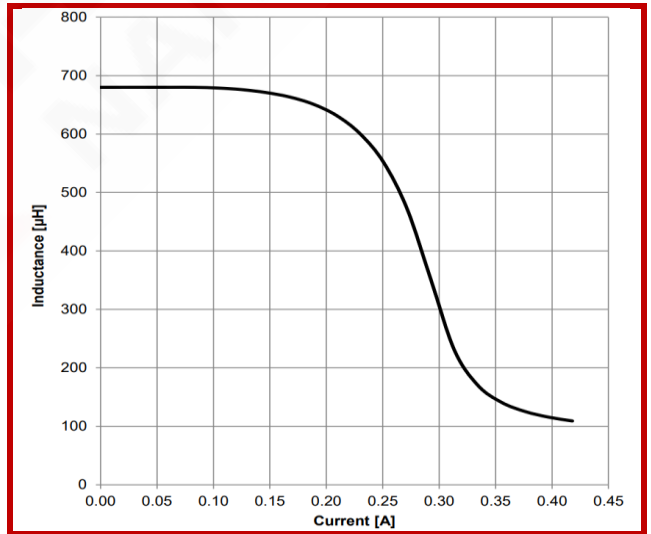
SPI04-0703-471M



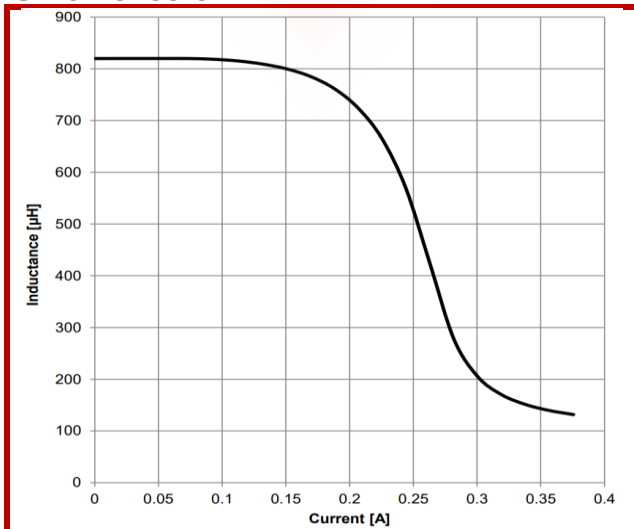
SPI04-0703-561M



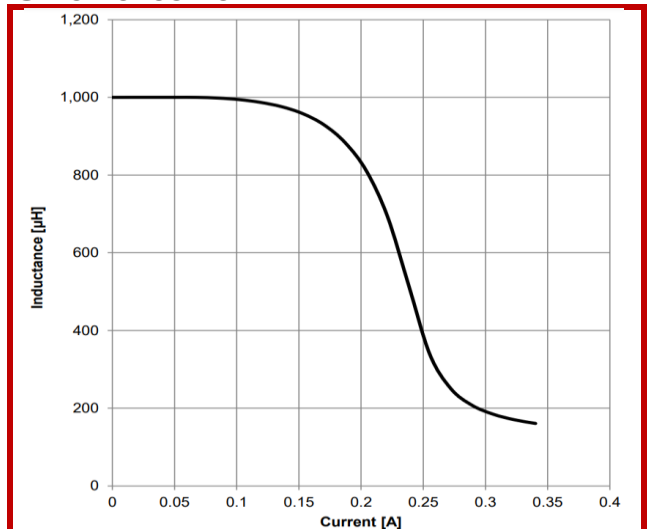
SPI04-0703-681M



SPI04-0703-821M



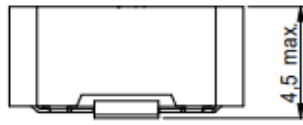
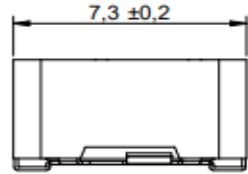
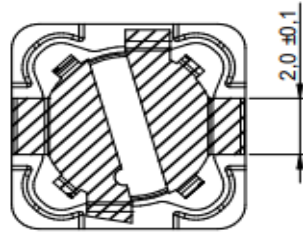
SPI04-0703-102M





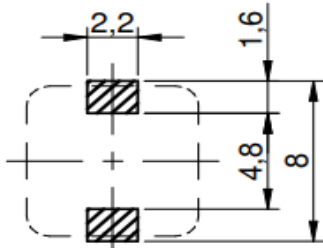
尺寸

Dimension (mm)



焊盘推荐

Land Pattern Recommended (mm)



示意图

Schematics



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SPI04-0705-1R0M	1.00 +40%/-20%	6.84	10	10.20	1,000
SPI04-0705-2R2M	2.20 ±20%	6.00	20	6.50	1,000
SPI04-0705-3R3M	3.30 ±20%	3.50	30	4.60	1,000
SPI04-0705-4R7M	4.70 ±20%	3.20	40	4.00	1,000
SPI04-0705-100M	10.00 ±20%	2.00	49	2.60	1,000
SPI04-0705-120M	12.00 ±20%	1.82	58	2.40	1,000
SPI04-0705-150M	15.00 ±20%	1.60	81	2.20	1,000
SPI04-0705-180M	18.00 ±20%	1.50	91	2.05	1,000
SPI04-0705-220M	22.00 ±20%	1.41	110	1.70	1,000
SPI04-0705-270M	27.00 ±20%	1.24	150	1.55	1,000

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☆ 电感测试条件为 1.0kHz / 250mV

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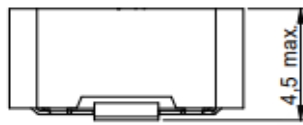
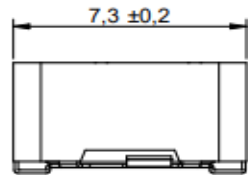
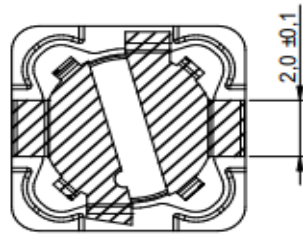
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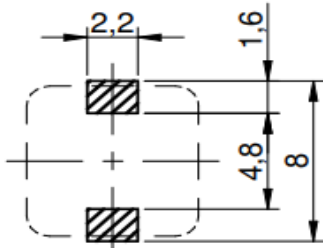
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Dimension (mm)



焊盘推荐

Land Pattern Recommended (mm)



示意图

Schematics



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SPI04-0705-390M	39 ±20%	1.11	230	1.23	1,000
SPI04-0705-470M	47 ±20%	1.03	260	1.10	1,000
SPI04-0705-560M	56 ±20%	0.93	350	1.05	1,000
SPI04-0705-680M	68 ±20%	0.87	380	0.95	1,000
SPI04-0705-820M	82 ±20%	0.84	430	0.90	1,000
SPI04-0705-101M	100 ±20%	0.79	610	0.75	1,000
SPI04-0705-121M	120 ±20%	0.67	660	0.70	1,000
SPI04-0705-151M	150 ±20%	0.52	880	0.63	1,000
SPI04-0705-181M	180 ±20%	0.51	980	0.56	1,000

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Operating Temperature: -40°C ~ +125°C

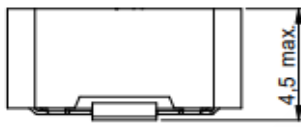
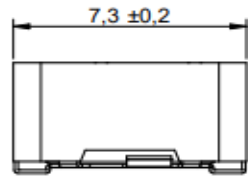
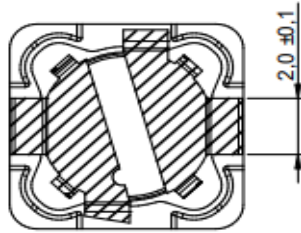
☆ 饱和电流: 电感值下降其初始值的10%时所加载的实际直流电流值

Saturation Current: The actual value of DC current when the inductance drop 10% of initial value



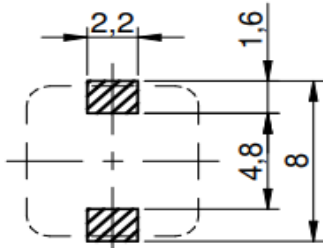
尺寸

Dimension (mm)



焊盘推荐

Land Pattern Recommended (mm)



示意图

Schematics



电性特性

Electrical Properties

型号 Part No.	电感 Inductance μH	温升电流 Rated Current I _r typ 40°C (A)	直流电阻 DC Resistance DCR _{max} (mΩ)	饱和电流 Saturation Current I _{sat} typ (A)	卷盘数量 Taping Reel Qty. pcs
SPI04-0705-221M	220 ±20%	0.44	1,170	0.54	1,000
SPI04-0705-271M	270 ±20%	0.43	1,640	0.48	1,000
SPI04-0705-331M	330 ±20%	0.39	1,860	0.45	1,000
SPI04-0705-391M	390 ±20%	0.38	2,850	0.42	1,000
SPI04-0705-471M	470 ±20%	0.29	3,010	0.34	1,000
SPI04-0705-561M	560 ±20%	0.28	3,620	0.31	1,000
SPI04-0705-681M	680 ±20%	0.23	4,630	0.28	1,000
SPI04-0705-821M	820 ±20%	0.21	5,200	0.26	1,000
SPI04-0705-102M	1,000 ±20%	0.20	6,000	0.25	1,000

测试状态

Test Condition

☆ 电感测试条件为 1.0kHz / 250mV

Inductance measure condition at 1.0kHz / 250mV

☆ 工作温度: -40°C ~ +125°C

Operating Temperature: -40°C ~ +125°C

☆ 饱和电流: 电感值下降其初始值的10%时所加载的实际直流电流值

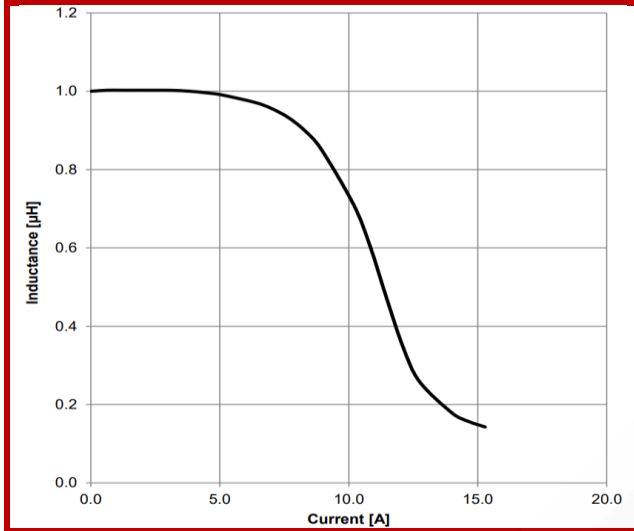
Saturation Current: The actual value of DC current when the inductance drop 10% of initial value



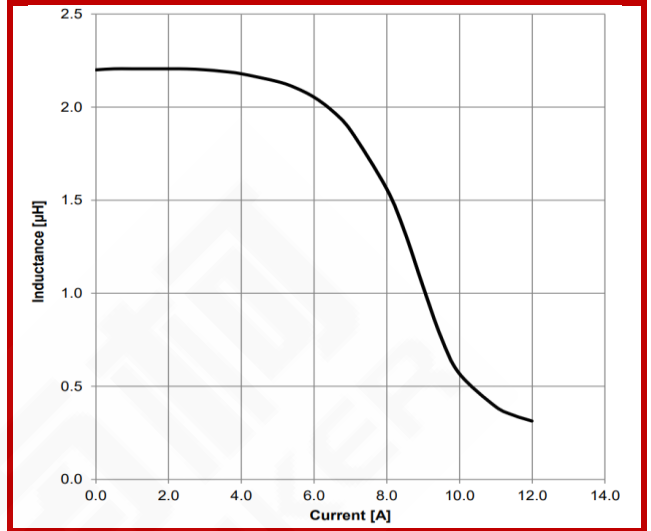
典型电感与电流特性

Typical Inductance vs. Current Characteristics

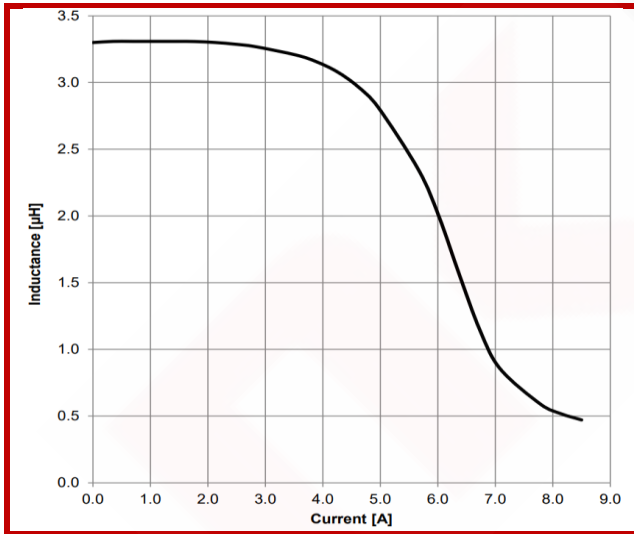
SPI04-0705-1R0M



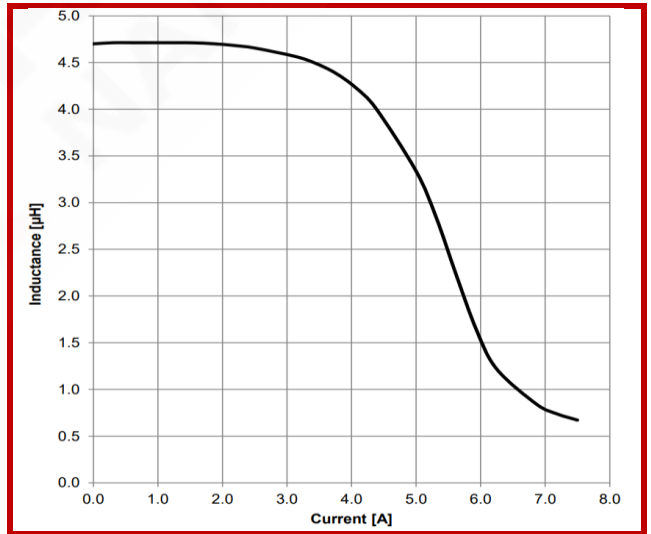
SPI04-0705-2R2M



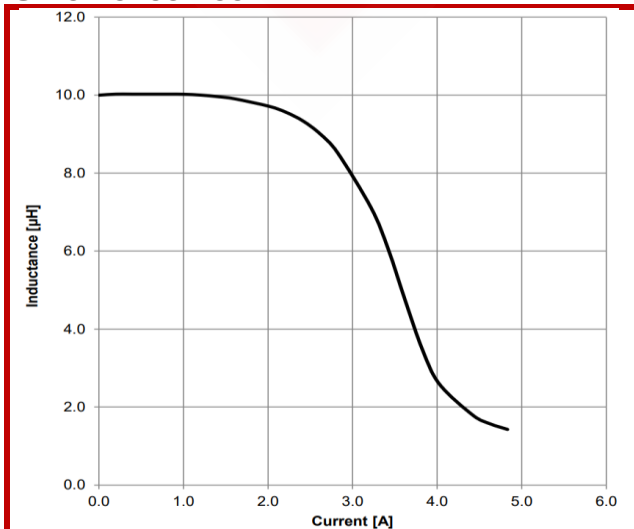
SPI04-0705-3R3M



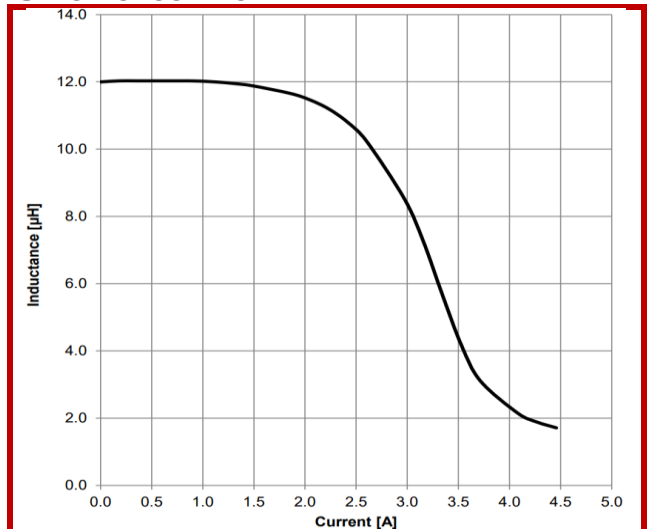
SPI04-0705-4R7M



SPI04-0705-100M



SPI04-0705-120M

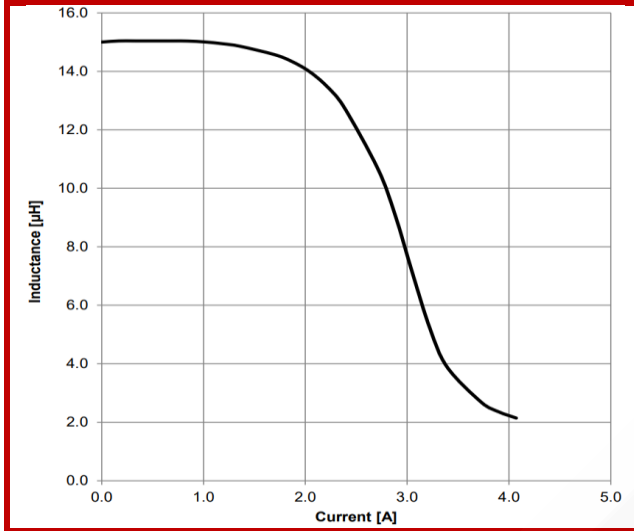




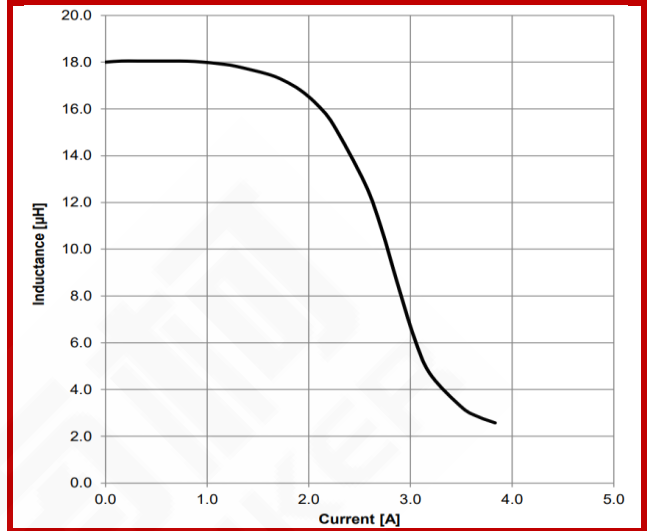
典型电感与电流特性

Typical Inductance vs. Current Characteristics

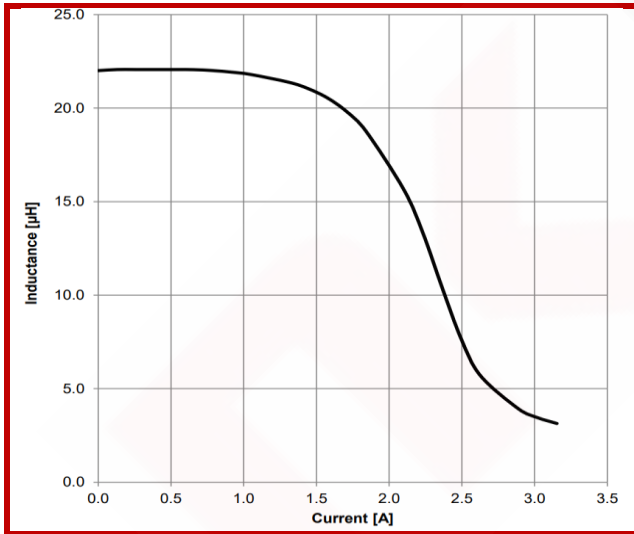
SPI04-0705-150M



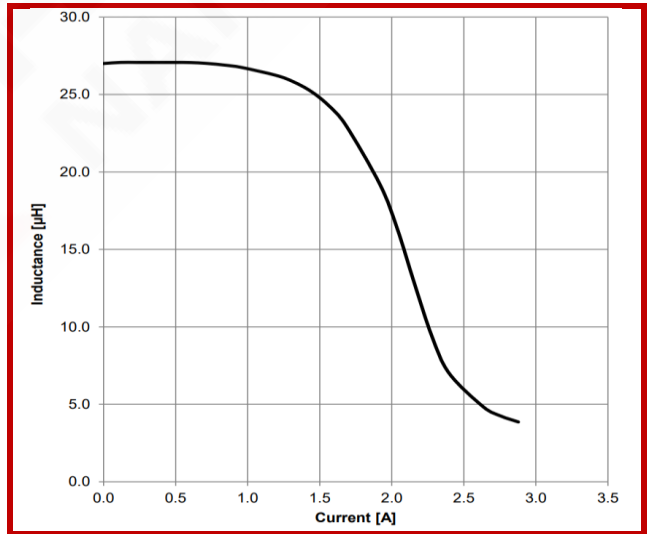
SPI04-0705-180M



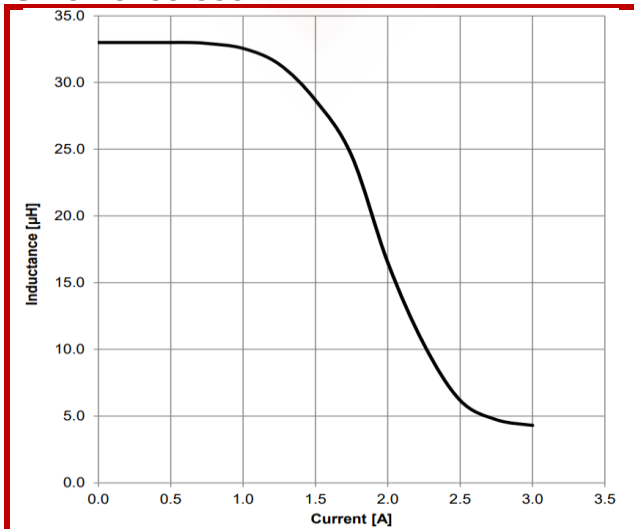
SPI04-0705-220M



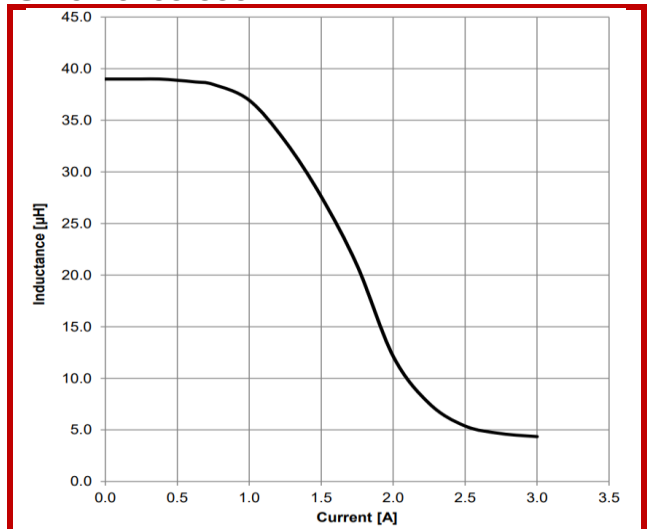
SPI04-0705-270M



SPI04-0705-330M



SPI04-0705-390M

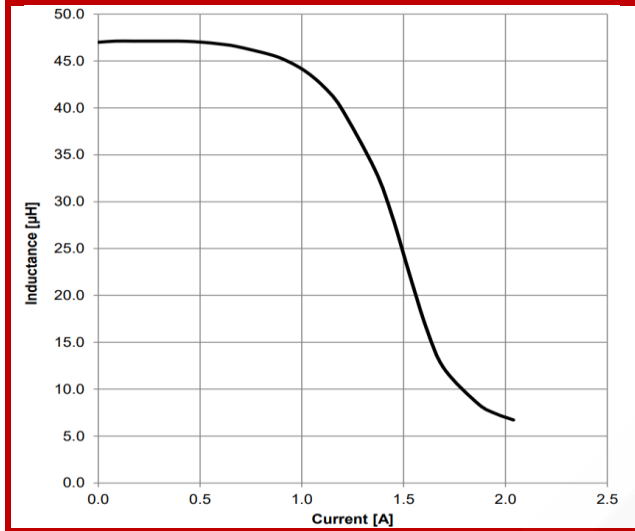




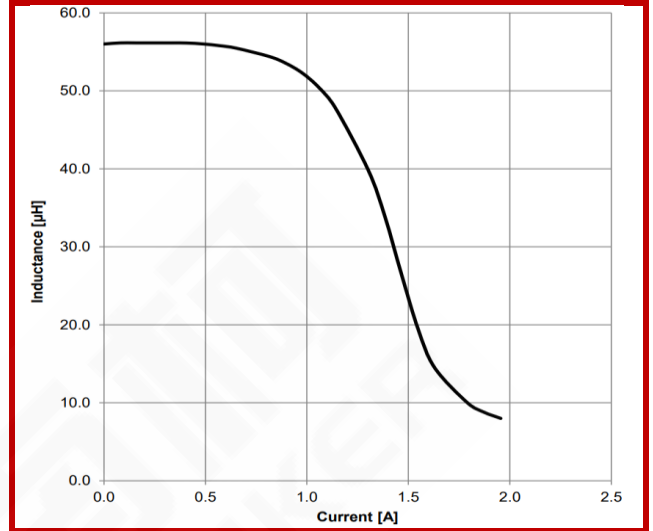
典型电感与电流特性

Typical Inductance vs. Current Characteristics

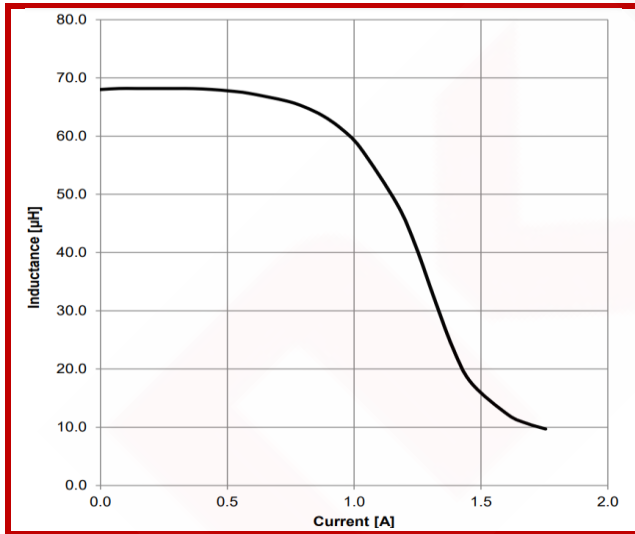
SPI04-0705-470M



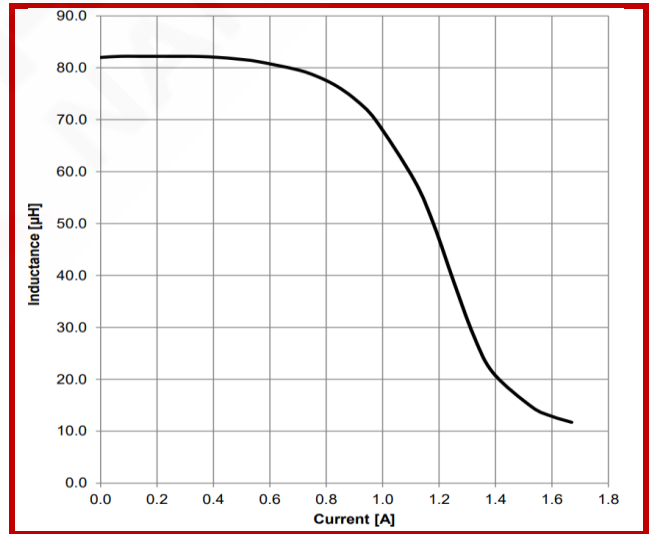
SPI04-0705-560M



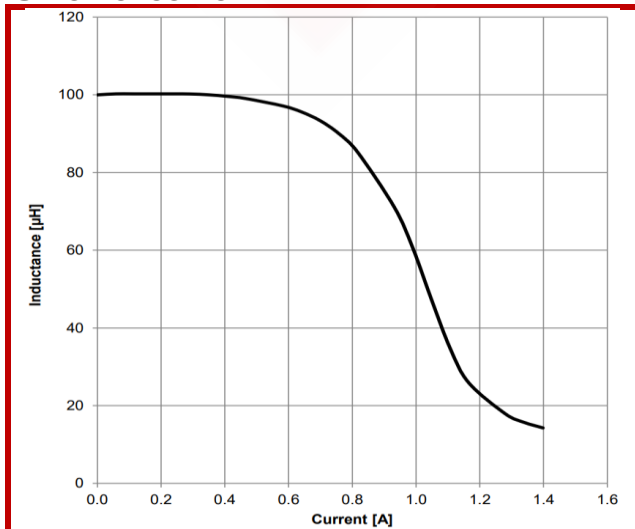
SPI04-0705-680M



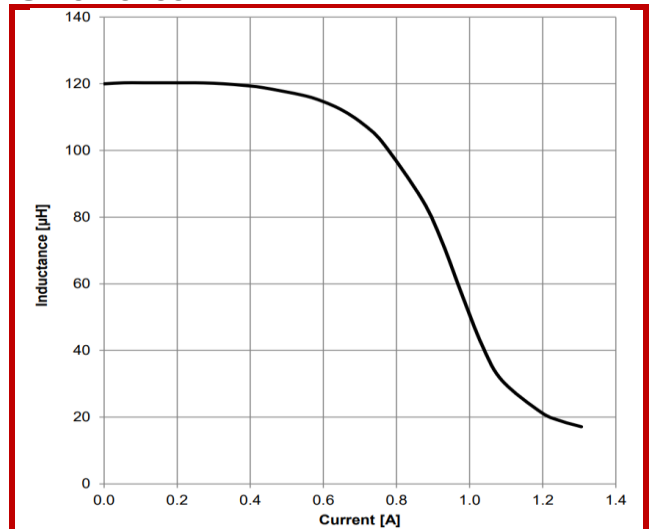
SPI04-0705-820M



SPI04-0705-101M



SPI04-0705-121M

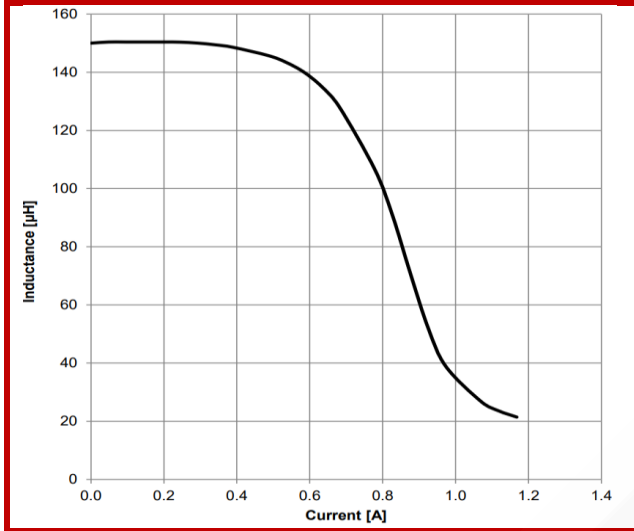




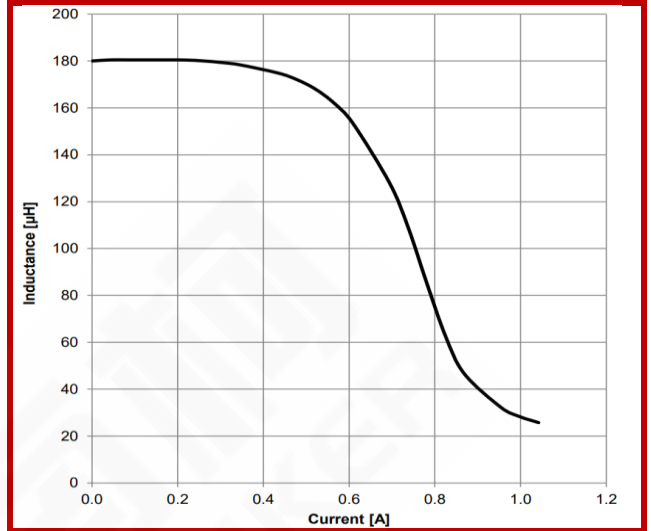
典型电感与电流特性

Typical Inductance vs. Current Characteristics

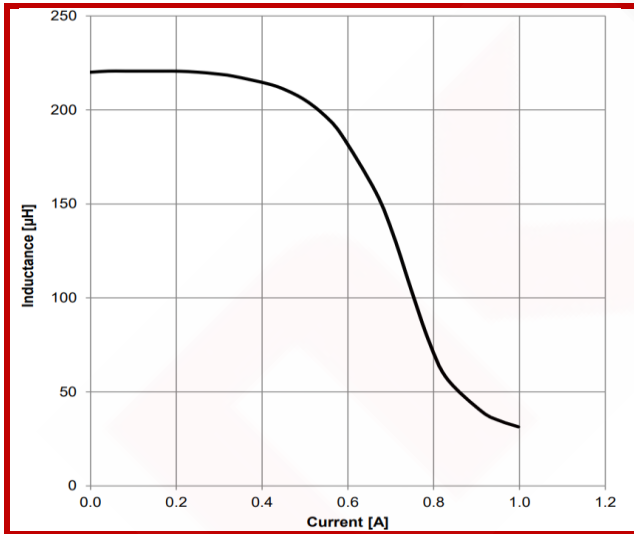
SPI04-0705-151M



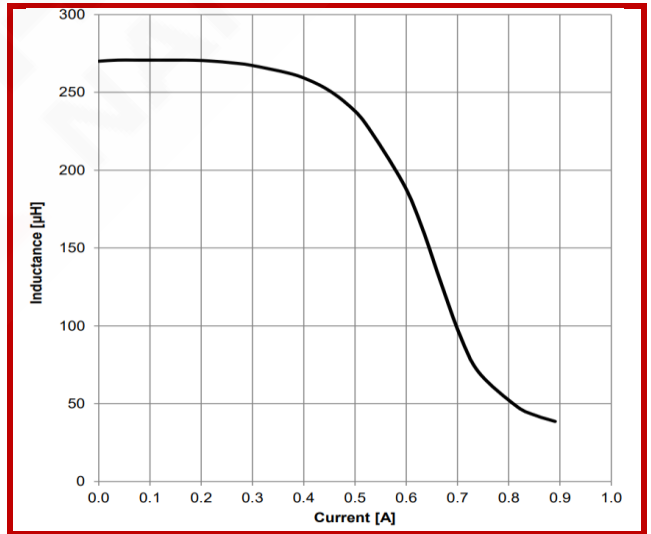
SPI04-0705-181M



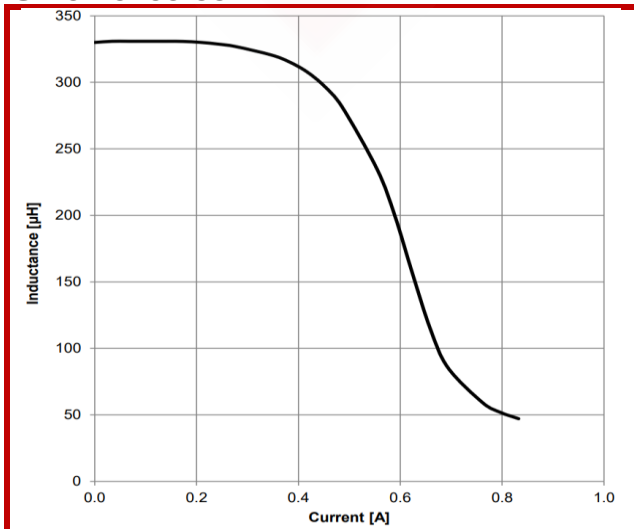
SPI04-0705-221M



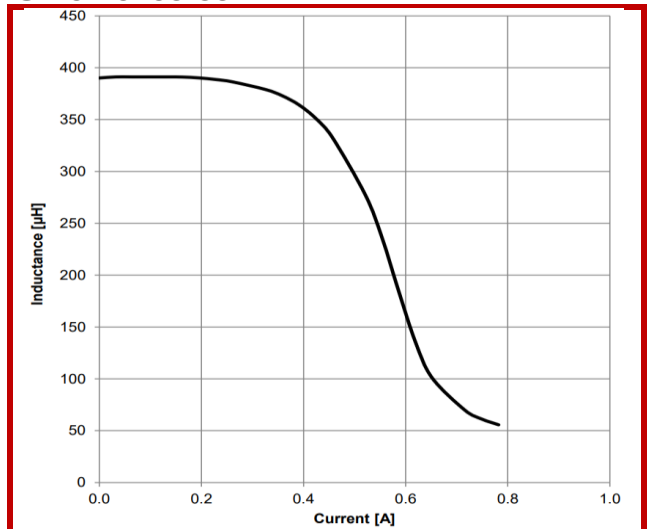
SPI04-0705-271M



SPI04-0705-331M



SPI04-0705-391M

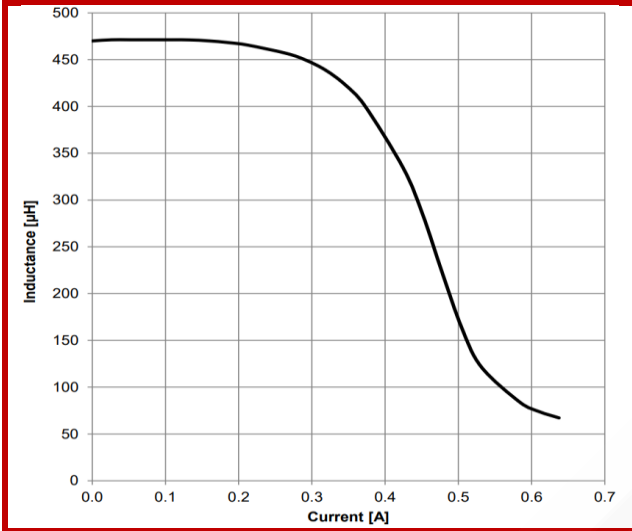




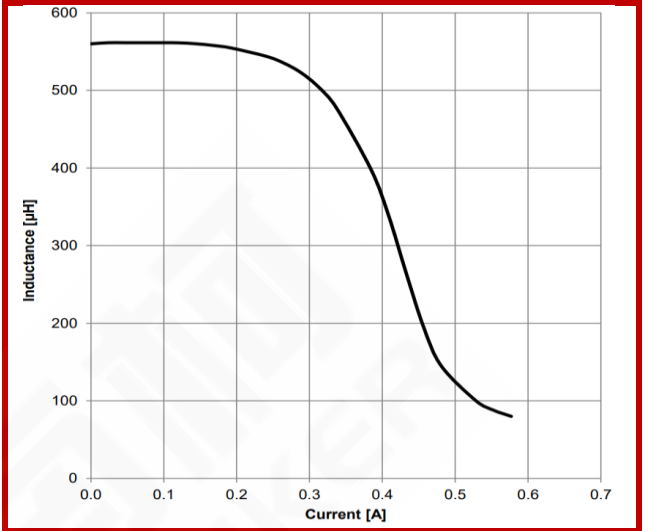
典型电感与电流特性

Typical Inductance vs. Current Characteristics

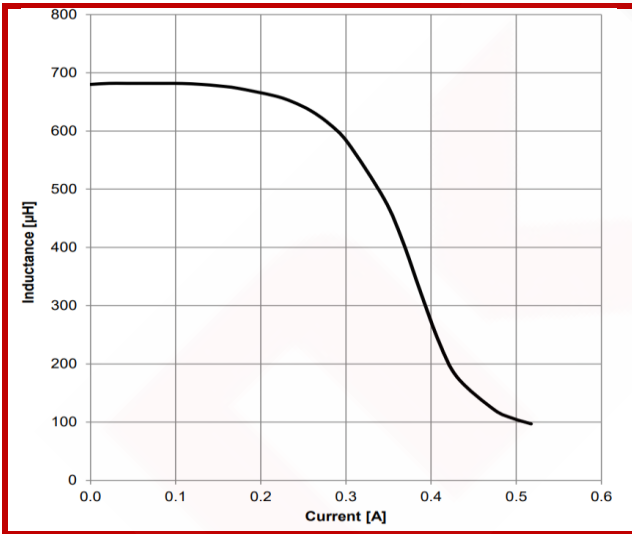
SPI04-0705-471M



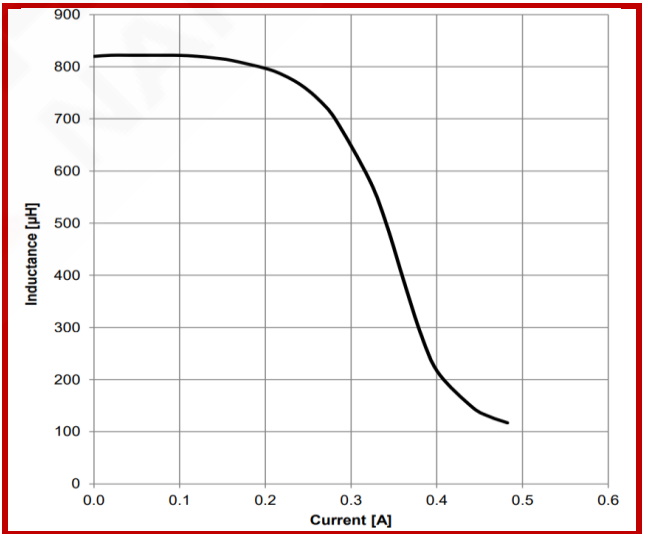
SPI04-0705-561M



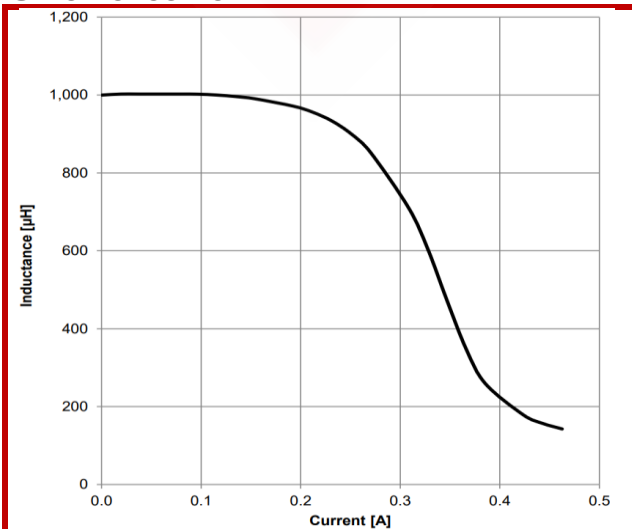
SPI04-0705-681M



SPI04-0705-821M



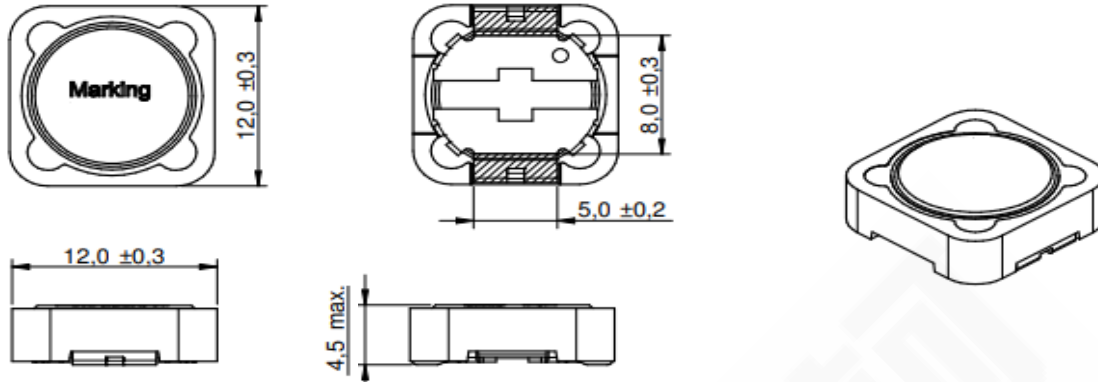
SPI04-0705-102M





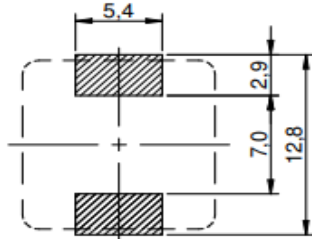
尺寸

Dimension (mm)



焊盘推荐

Land Pattern Recommended (mm)



示意图

Schematics



电性特性

Electrical Properties

型号 Part No.	电感 Inductance μH	温升电流 Rated Current I _r typ 40°C (A)	直流电阻 DC Resistance DCR _{max} (mΩ)	饱和电流 Saturation Current I _{sat} typ (A)	卷盘数量 Taping Reel Qty. pcs
SPI04-1205-R60N	0.60 ±30%	9.50	5.50	19.00	500
SPI04-1205-1R0N	1.00 ±30%	8.50	7.00	13.90	500
SPI04-1205-1R8N	1.80 ±30%	7.60	9.50	10.20	500
SPI04-1205-2R5N	2.50 ±30%	6.80	11.00	8.50	500
SPI04-1205-3R3N	3.30 ±30%	5.90	13.00	7.10	500
SPI04-1205-4R7N	4.70 ±30%	5.20	16.00	6.30	500
SPI04-1205-6R8N	6.80 ±30%	4.30	25.00	4.70	500
SPI04-1205-100N	10.00 ±30%	3.80	30.00	4.20	500

测试状态

Test Condition

☆ 电感测试条件为 1.0 kHz/ 5.0 mA

Inductance measure condition at 1.0kHz / 5.0mA

☆ 工作温度: -40°C ~ +125°C

Operating Temperature: -40°C ~ +125°C

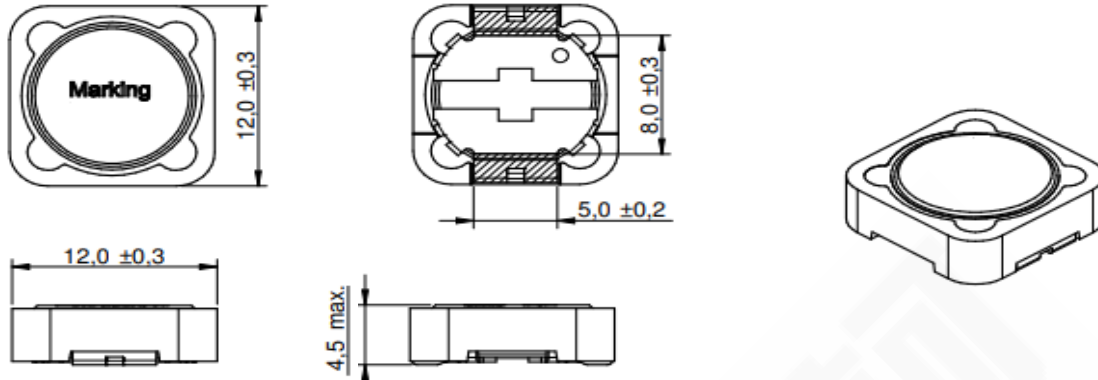
☆ 饱和电流: 电感值下降其初始值的10%时所加载的实际直流电流值

Saturation Current: The actual value of DC current when the inductance drop 10% of initial value



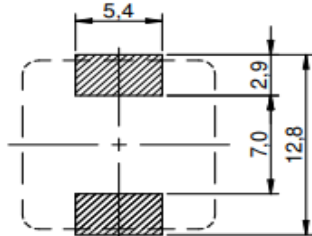
尺寸

Dimension (mm)



焊盘推荐

Land Pattern Recommended (mm)



示意图

Schematics



电性特性

Electrical Properties

型号 Part No.	电感 Inductance μH	温升电流 Rated Current I _r typ 40°C (A)	直流电阻 DC Resistance DCR _{max} (mΩ)	饱和电流 Saturation Current I _{sat} typ (A)	卷盘数量 Taping Reel Qty. pcs
SPI04-1205-120N	12.00 ±30%	3.50	38.00	3.60	500
SPI04-1205-180N	18.00 ±30%	3.20	51.00	3.20	500
SPI04-1205-220N	22.00 ±30%	2.90	65.00	3.10	500
SPI04-1205-330N	33.00 ±30%	2.30	85.00	2.50	500
SPI04-1205-470N	47.00 ±30%	1.95	125.00	2.10	500
SPI04-1205-101N	100.00 ±30%	1.30	270.00	1.40	500
SPI04-1205-221N	220.00 ±30%	0.95	480.00	1.00	500

测试状态

Test Condition

☆ 电感测试条件为 1.0 kHz/ 5.0 mA

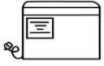
Inductance measure condition at 1.0kHz / 5.0mA

☆ 工作温度: -40°C ~ +125°C

Operating Temperature: -40°C ~ +125°C

☆ 饱和电流: 电感值下降其初始值的10%时所加载的实际直流电流值

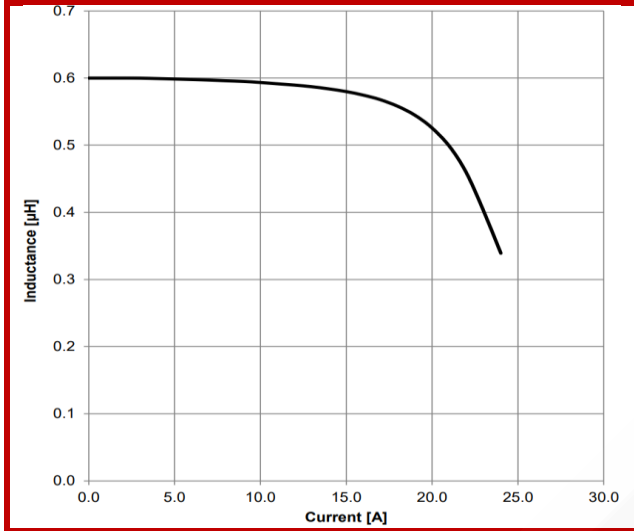
Saturation Current: The actual value of DC current when the inductance drop 10% of initial value



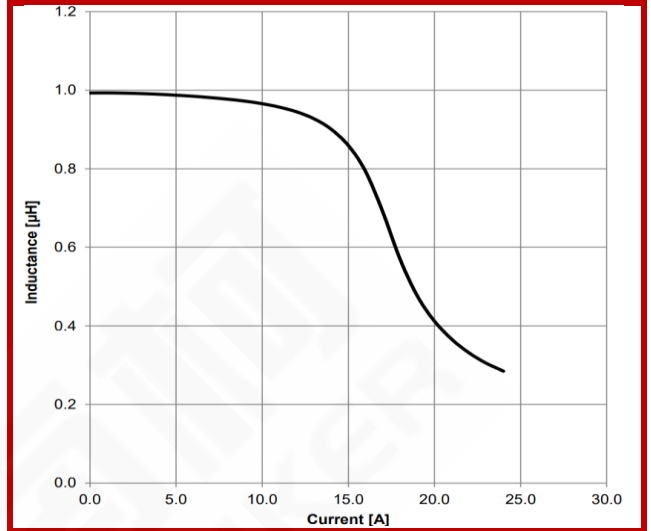
典型电感与电流特性

Typical Inductance vs. Current Characteristics

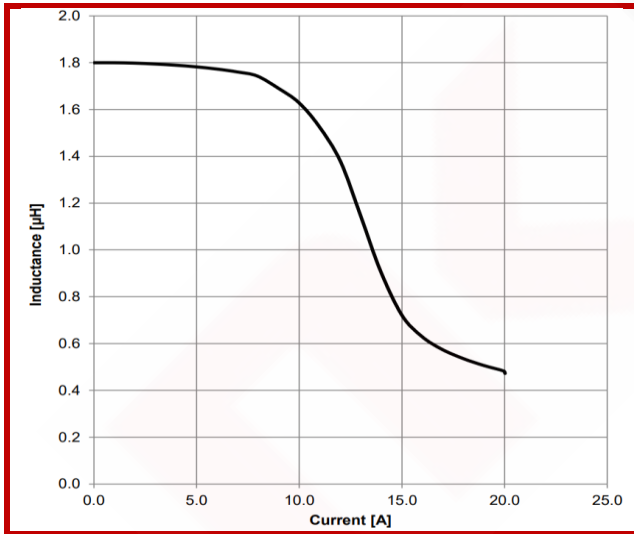
SPI04-1205-R60N



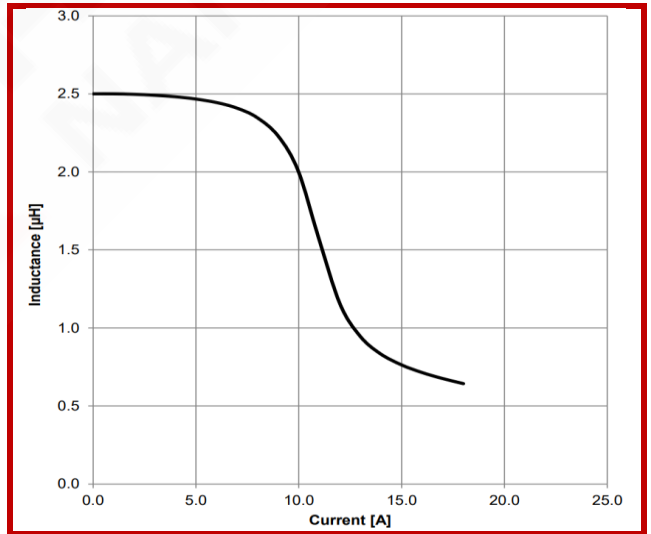
SPI04-1205-1R0N



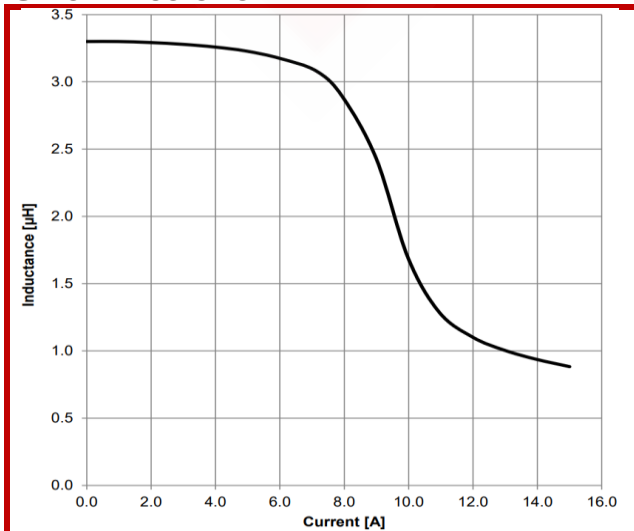
SPI04-1205-1R8N



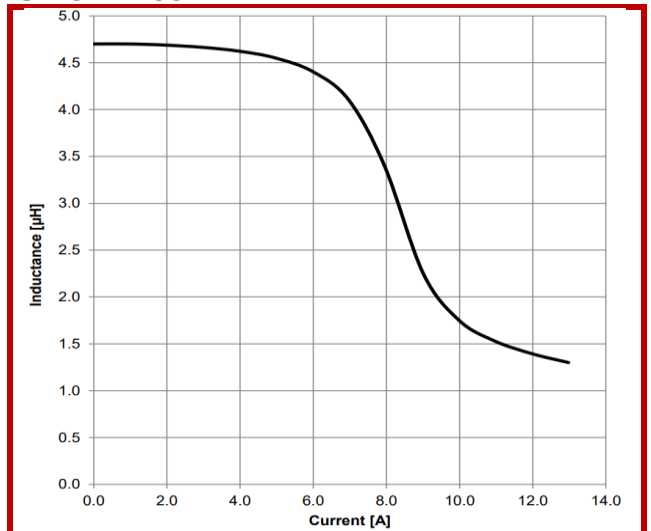
SPI04-1205-2R5N



SPI04-1205-3R3N



SPI04-1205-4R7N

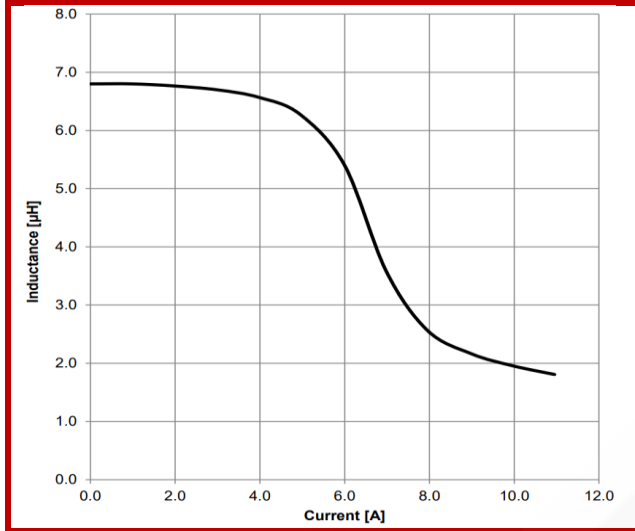




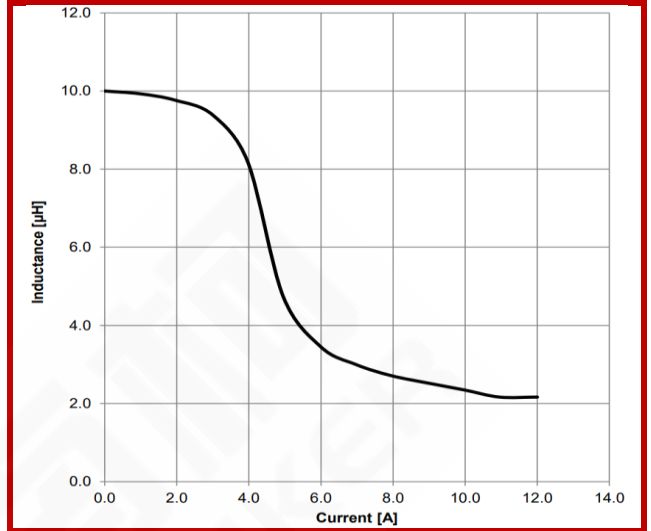
典型电感与电流特性

Typical Inductance vs. Current Characteristics

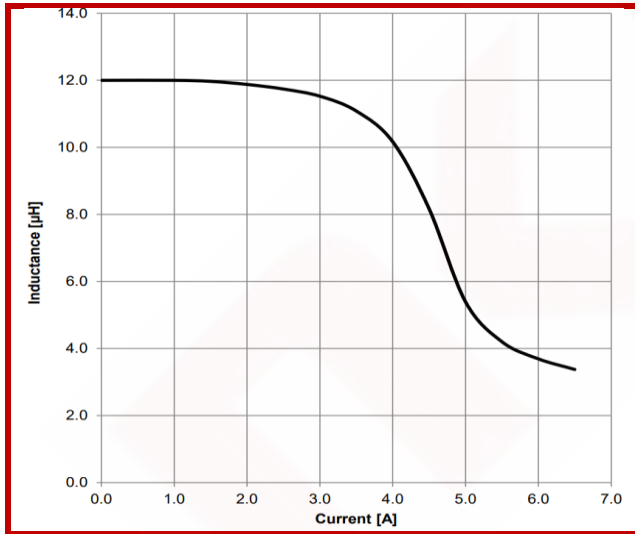
SPI04-1205-6R8N



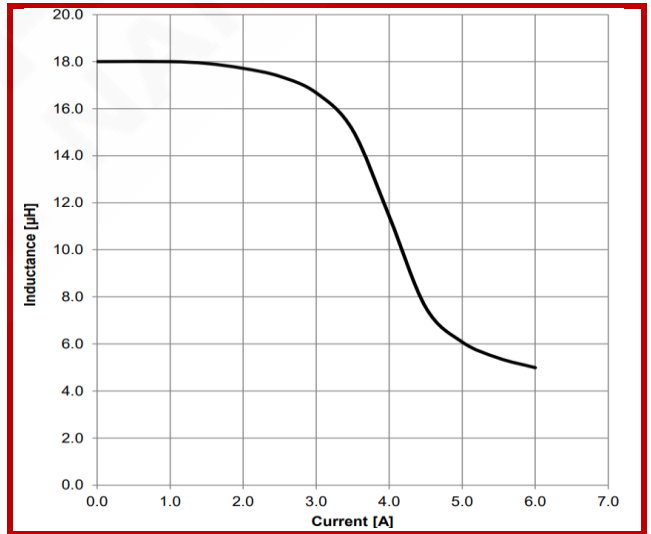
SPI04-1205-100N



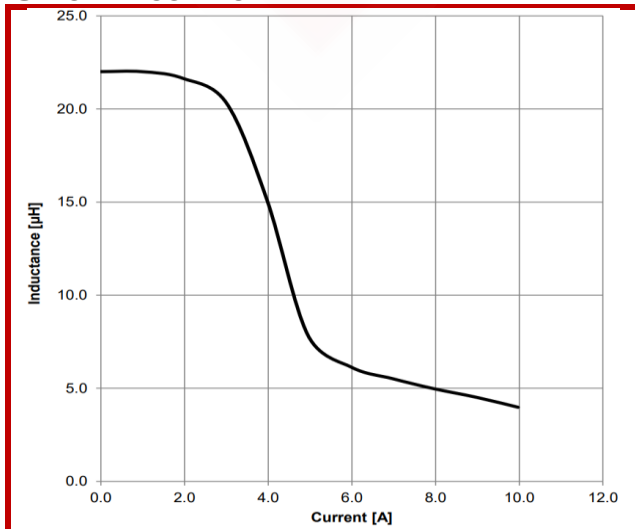
SPI04-1205-120N



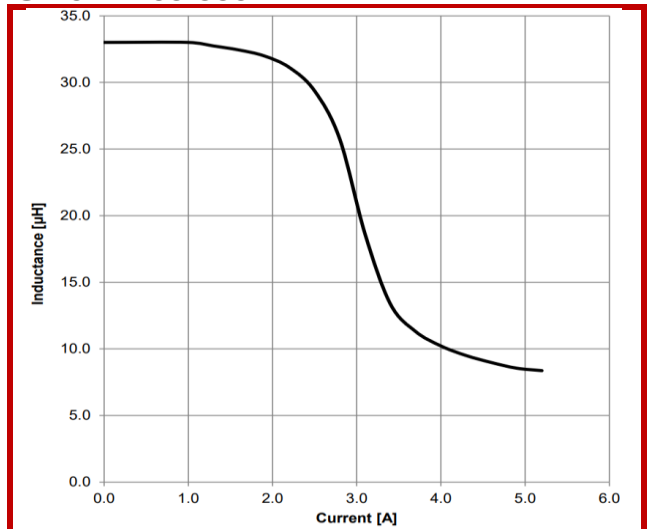
SPI04-1205-180N



SPI04-1205-220N



SPI04-1205-330N

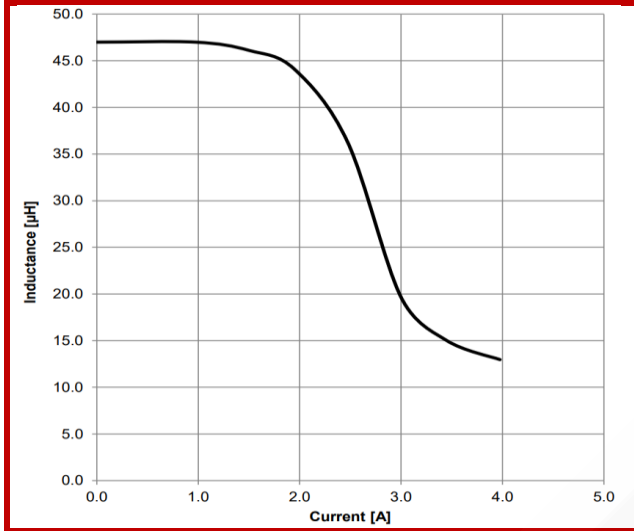




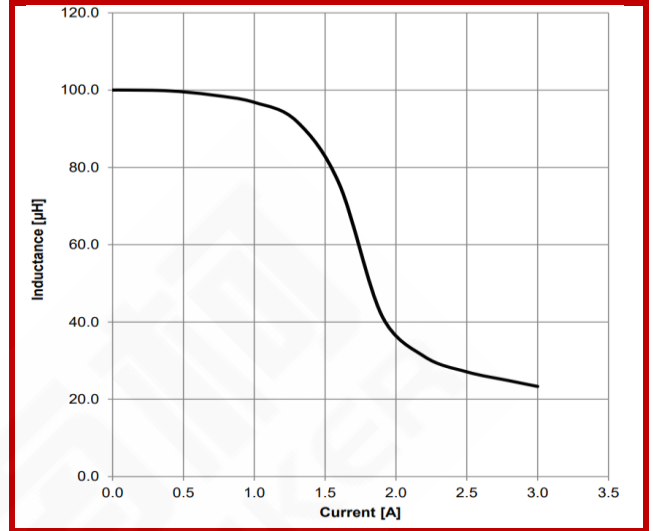
典型电感与电流特性

Typical Inductance vs. Current Characteristics

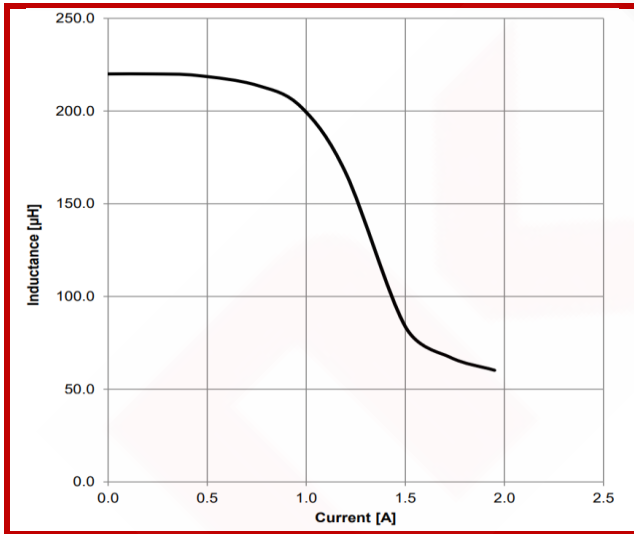
SPI04-1205-470N



SPI04-1205-101N



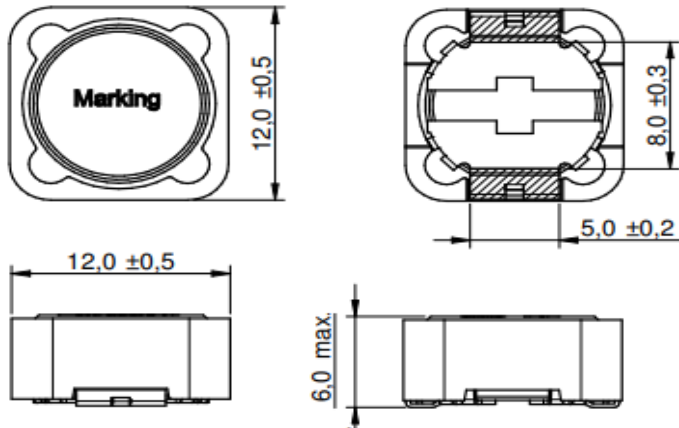
SPI04-1205-221N





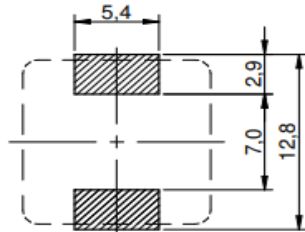
尺寸

Dimension (mm)



焊盘推荐

Land Pattern Recommended (mm)



示意图

Schematics



电性特性

Electrical Properties

型号 Part No.	电感 Inductance μH	温升电流 Rated Current I _r typ 40°C (A)	直流电阻 DC Resistance DCR _{max} (mΩ)	饱和电流 Saturation Current I _{sat} typ (A)	卷盘数量 Taping Reel Qty. pcs
SPI04-1206-1R0M	1.00 ±20%	14.00	5.00	15.60	500
SPI04-1206-1R5M	1.50 ±20%	10.50	6.00	12.50	500
SPI04-1206-2R2M	2.20 ±20%	10.00	8.00	11.00	500
SPI04-1206-3R5M	3.50 ±20%	9.25	8.00	9.00	500
SPI04-1206-4R7M	4.70 ±20%	8.25	11.00	8.00	500
SPI04-1206-6R8M	6.80 ±20%	5.60	22.00	6.00	500
SPI04-1206-8R2M	8.20 ±20%	6.25	20.00	6.25	500
SPI04-1206-100M	10.00 ±20%	5.00	25.00	5.50	500
SPI04-1206-120M	12.00 ±20%	3.91	27.00	4.85	500
SPI04-1206-150M	15.00 ±20%	3.75	30.00	4.55	500

测试状态

Test Condition

☆ 电感测试条件为 100 kHz/ 250 mV

Inductance measure condition at 100 kHz/ 250 mV

☆ 工作温度: -40°C ~ +125°C

Operating Temperature: -40°C ~ +125°C

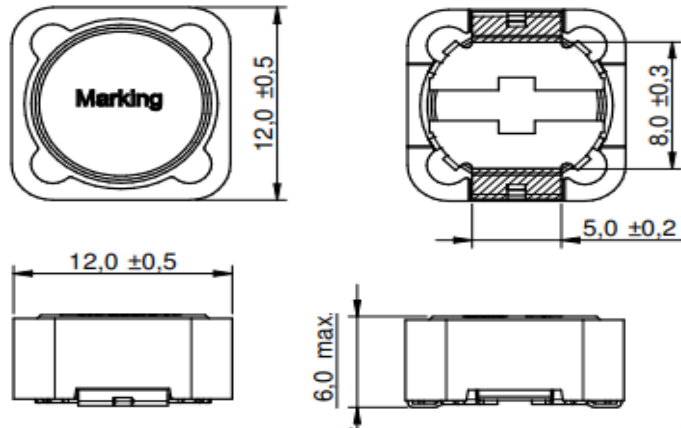
☆ 饱和电流: 电感值下降其初始值的10%时所加载的实际直流电流值

Saturation Current: The actual value of DC current when the inductance drop 10% of initial value



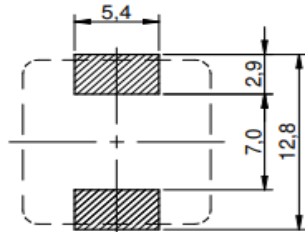
尺寸

Dimension (mm)



焊盘推荐

Land Pattern Recommended (mm)



示意图

Schematics



电性特性

Electrical Properties

型号 Part No.	电感 Inductance μH	温升电流 Rated Current I _r typ 40°C (A)	直流电阻 DCResistance DCR _{max} (mΩ)	饱和电流 Saturation Current I _{sat} typ (A)	卷盘数量 Taping Reel Qty. pcs
SPI04-1206-180M	18.00 ±20%	3.48	34	4.30	500
SPI04-1206-220M	22.00 ±20%	3.37	36	3.77	500
SPI04-1206-270M	27.00 ±20%	2.97	51	3.55	500
SPI04-1206-330M	33.00 ±20%	2.68	57	3.00	500
SPI04-1206-390M	39.00 ±20%	2.49	68	2.74	500
SPI04-1206-470M	47.00 ±20%	2.21	75	2.60	500
SPI04-1206-560M	56.00 ±20%	2.01	110	2.35	500
SPI04-1206-680M	68.00 ±20%	1.91	120	2.18	500
SPI04-1206-820M	82.00 ±20%	1.65	140	1.88	500
SPI04-1206-101M	100.00 ±20%	1.53	160	1.70	500
SPI04-1206-121M	120.00 ±20%	1.30	170	1.56	500

测试状态

Test Condition

☆ 电感测试条件为 100 kHz/ 250 mV

Inductance measure condition at 100 kHz/ 250 mV

☆ 工作温度: -40°C ~ +125°C

Operating Temperature: -40°C ~ +125°C

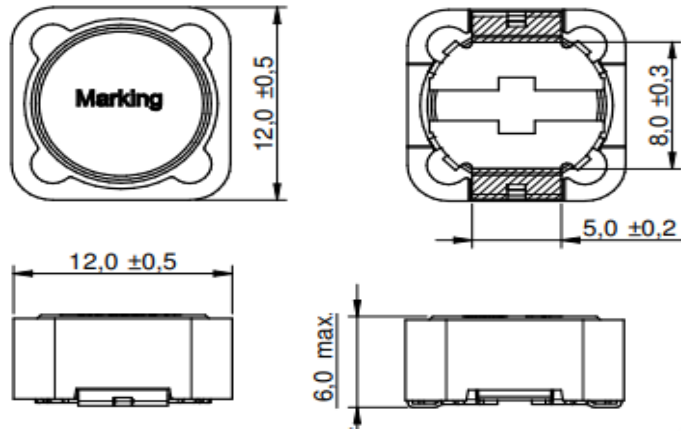
☆ 饱和电流: 电感值下降其初始值的10%时所加载的实际直流电流值

Saturation Current: The actual value of DC current when the inductance drop 10% of initial value



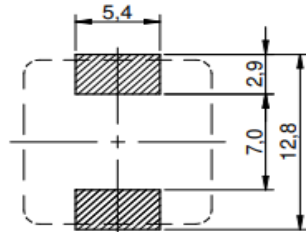
尺寸

Dimension (mm)



焊盘推荐

Land Pattern Recommended (mm)



示意图

Schematics



电性特性

Electrical Properties

型号 Part No.	电感 Inductance μH	温升电流 Rated Current I _r typ 40°C (A)	直流电阻 DCResistance DCR _{max} (mΩ)	饱和电流 Saturation Current I _{sat} typ (A)	卷盘数量 Taping Reel Qty. pcs
SPI04-1206-151M	150 ±20%	1.21	230	1.43	500
SPI04-1206-181M	180 ±20%	1.06	290	1.24	500
SPI04-1206-221M	220 ±20%	0.96	400	1.20	500
SPI04-1206-271M	270 ±20%	0.89	460	1.00	500
SPI04-1206-331M	330 ±20%	0.78	510	0.97	500
SPI04-1206-391M	390 ±20%	0.68	690	0.85	500
SPI04-1206-471M	470 ±20%	0.64	770	0.80	500
SPI04-1206-561M	560 ±20%	0.62	860	0.70	500
SPI04-1206-681M	680 ±20%	0.55	1,200	0.68	500
SPI04-1206-821M	820 ±20%	0.51	1,340	0.60	500
SPI04-1206-102M	1,000 ±20%	0.43	1,530	0.50	500

测试状态

Test Condition

☆ 电感测试条件为 100 kHz/ 250 mV

Inductance measure condition at 100 kHz/ 250 mV

☆ 工作温度: -40°C ~ +125°C

Operating Temperature: -40°C ~ +125°C

☆ 饱和电流: 电感值下降其初始值的10%时所加载的实际直流电流值

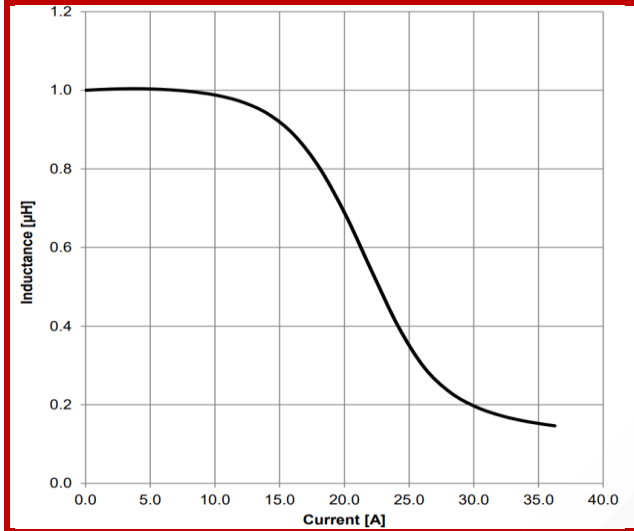
Saturation Current: The actual value of DC current when the inductance drop 10% of initial value



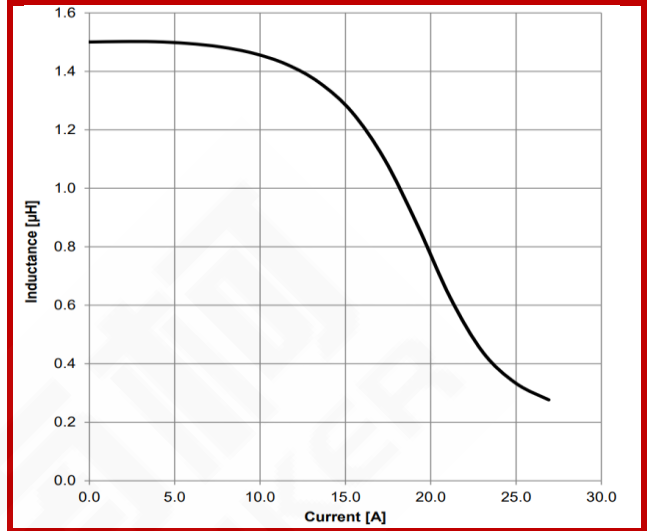
典型电感与电流特性

Typical Inductance vs. Current Characteristics

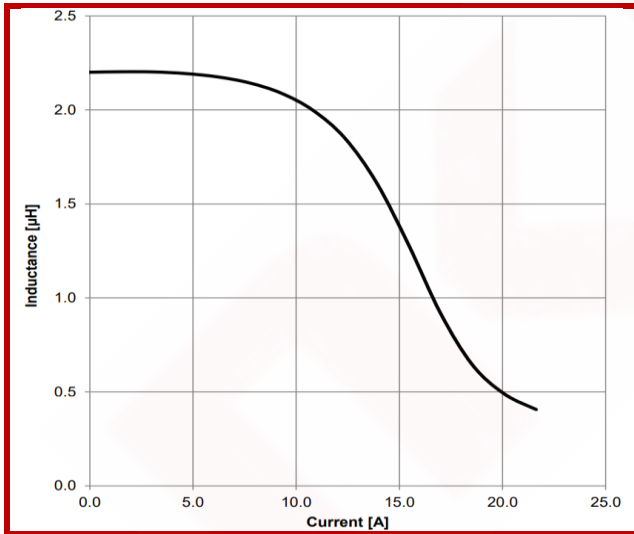
SPI04-1206-1R0M



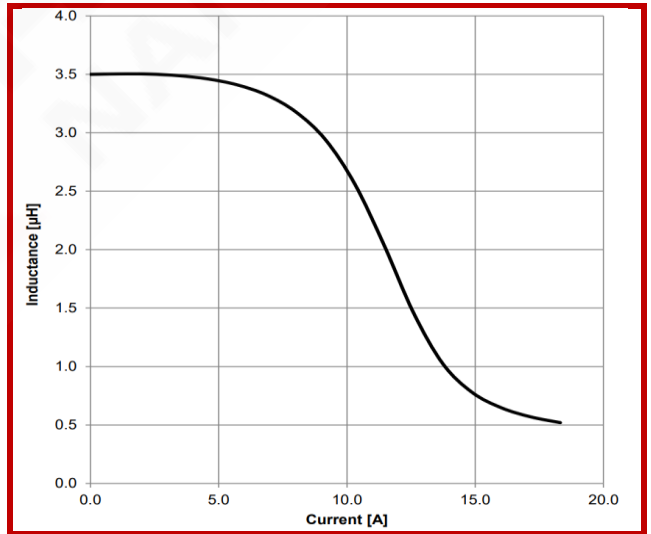
SPI04-1206-1R5M



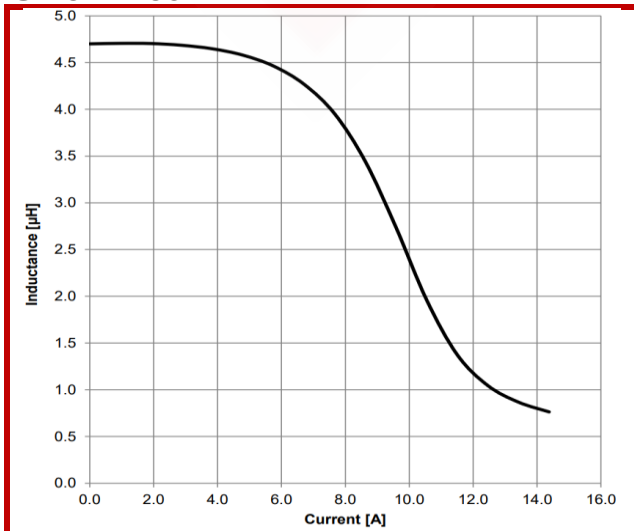
SPI04-1206-2R2M



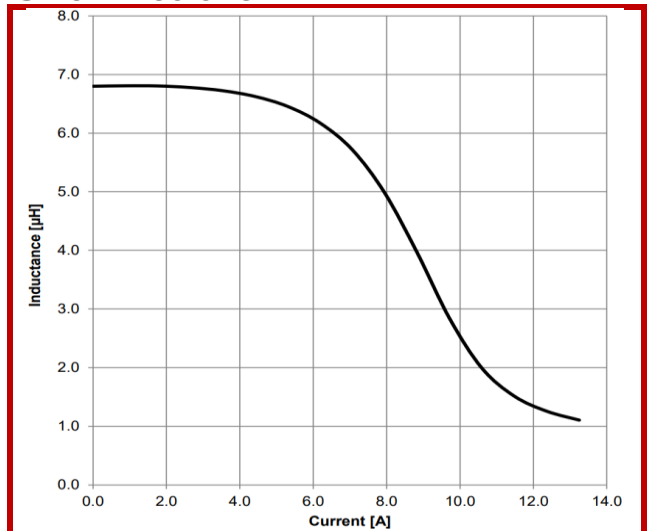
SPI04-1206-3R5M



SPI04-1206-4R7M



SPI04-1206-6R8M

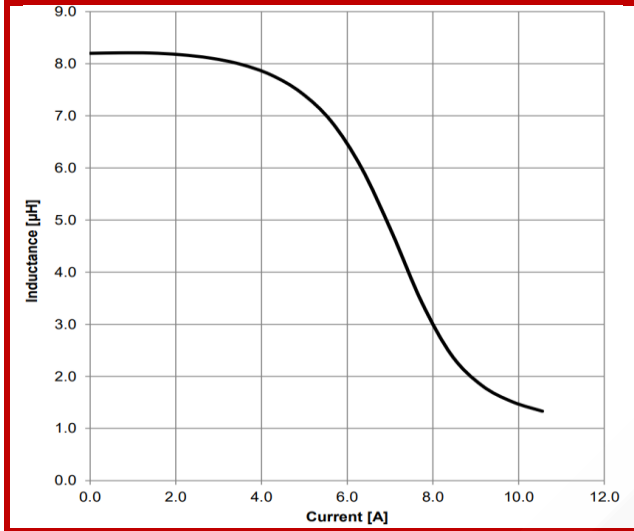




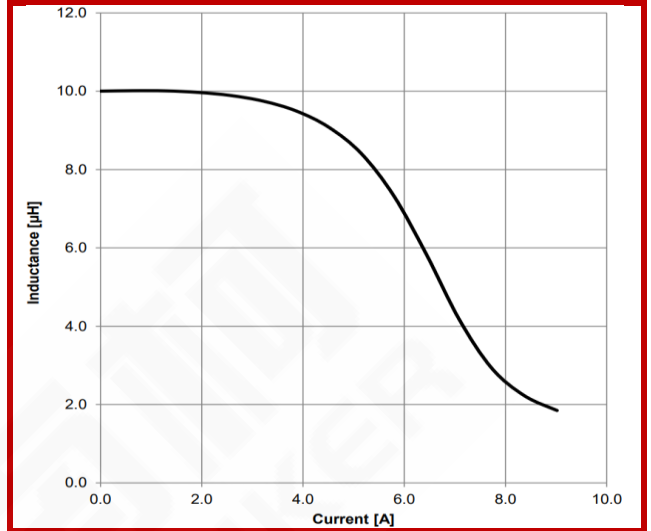
典型电感与电流特性

Typical Inductance vs. Current Characteristics

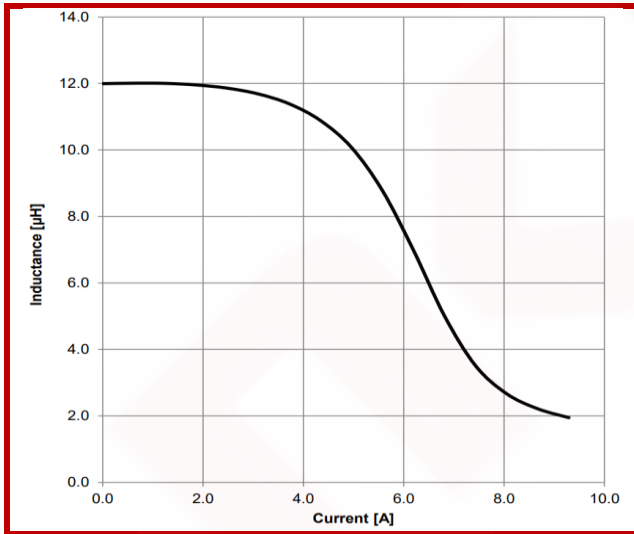
SPI04-1206-8R2M



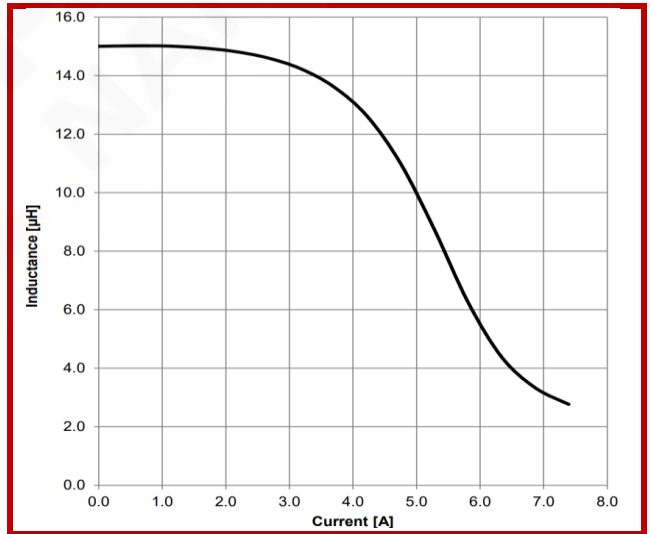
SPI04-1206-100M



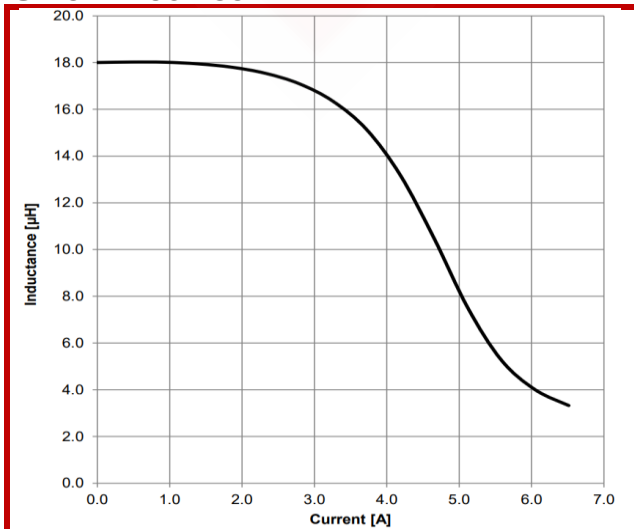
SPI04-1206-120M



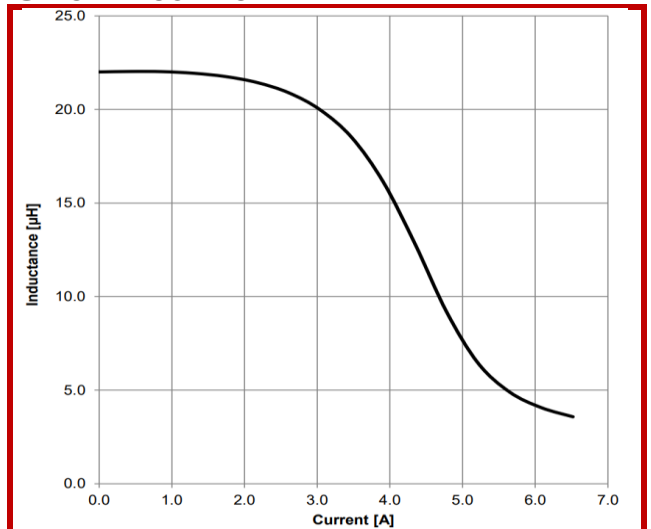
SPI04-1206-150M



SPI04-1206-180M



SPI04-1206-220M

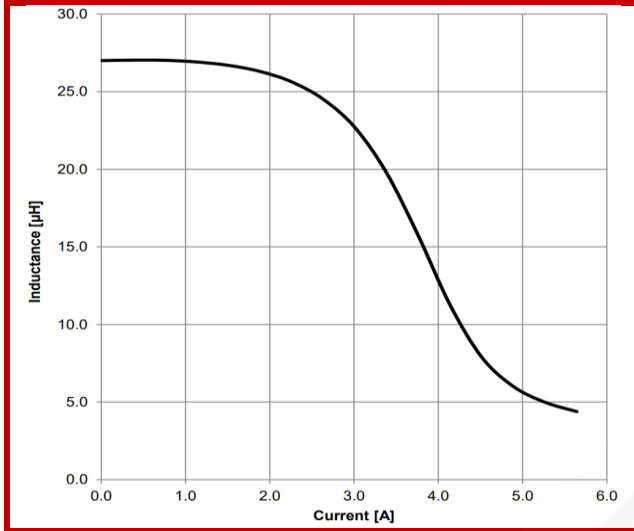




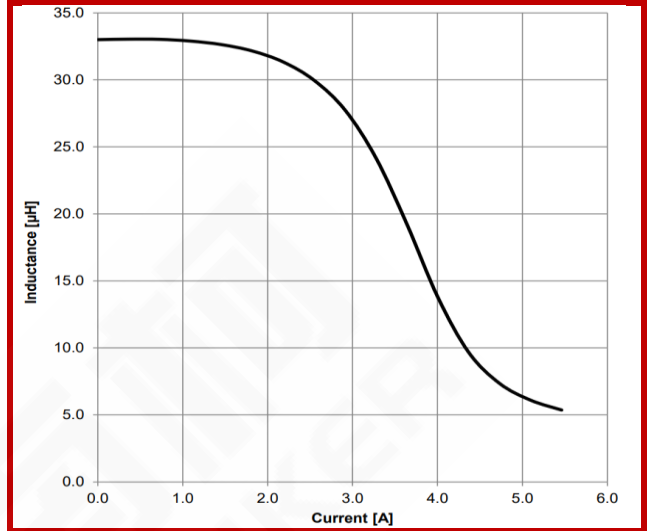
典型电感与电流特性

Typical Inductance vs. Current Characteristics

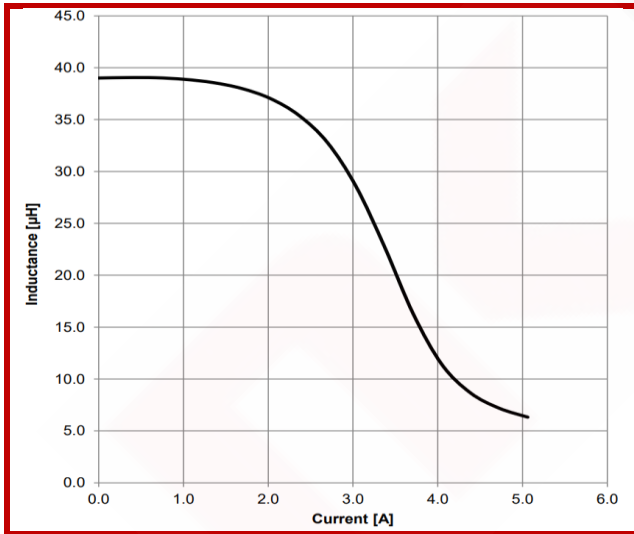
SPI04-1206-270M



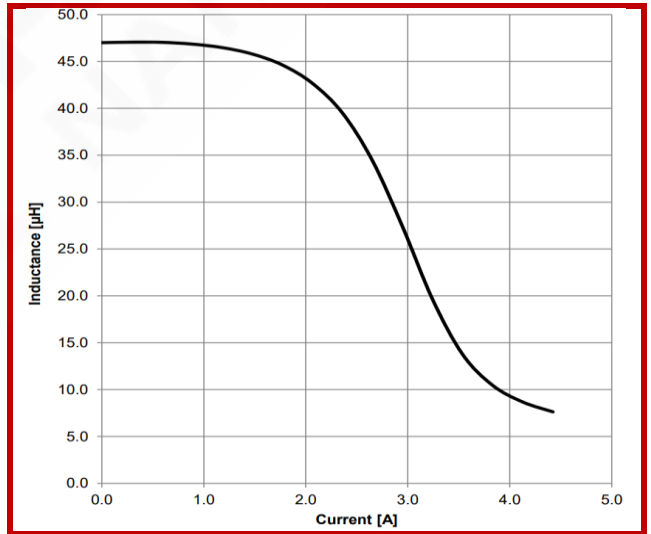
SPI04-1206-330M



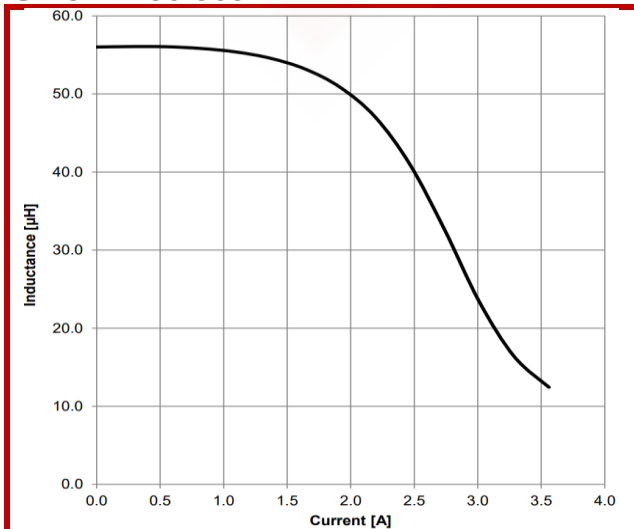
SPI04-1206-390M



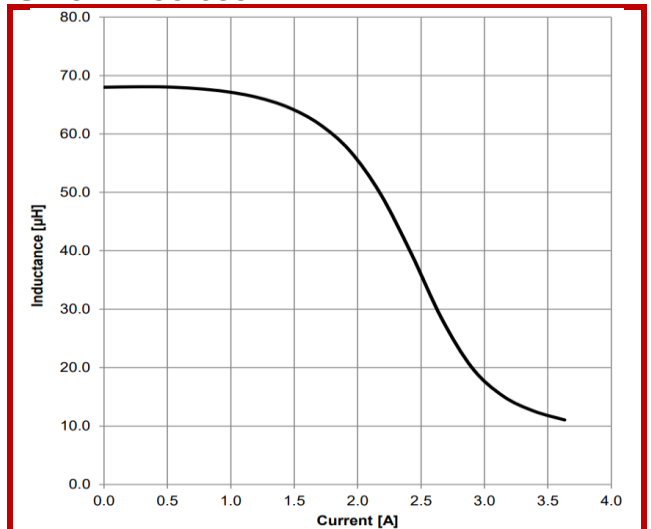
SPI04-1206-470M

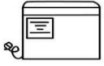


SPI04-1206-560M



SPI04-1206-680M

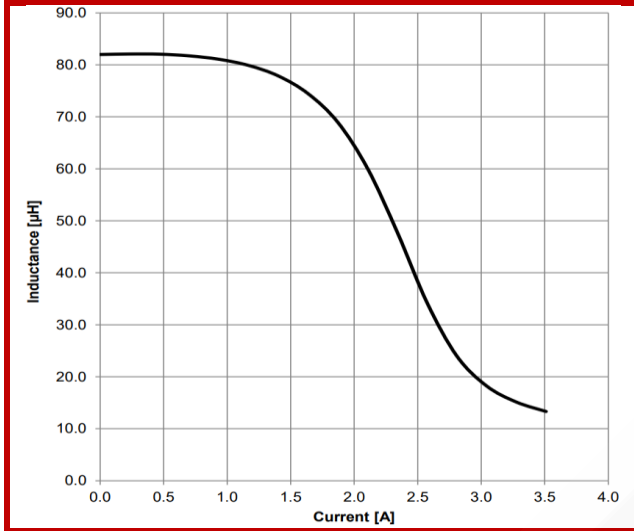




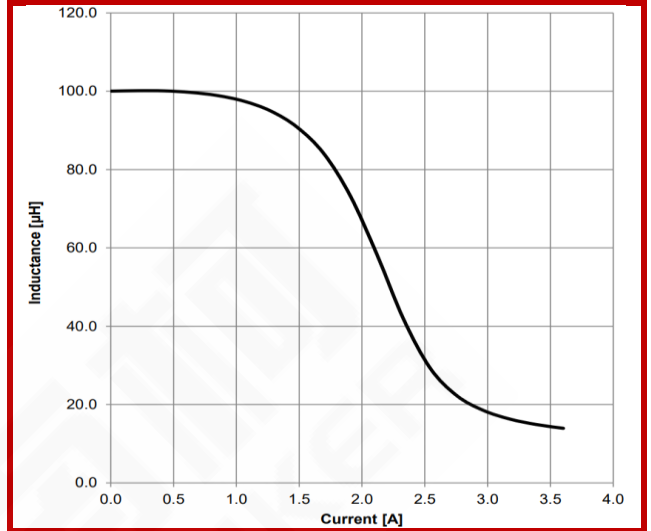
典型电感与电流特性

Typical Inductance vs. Current Characteristics

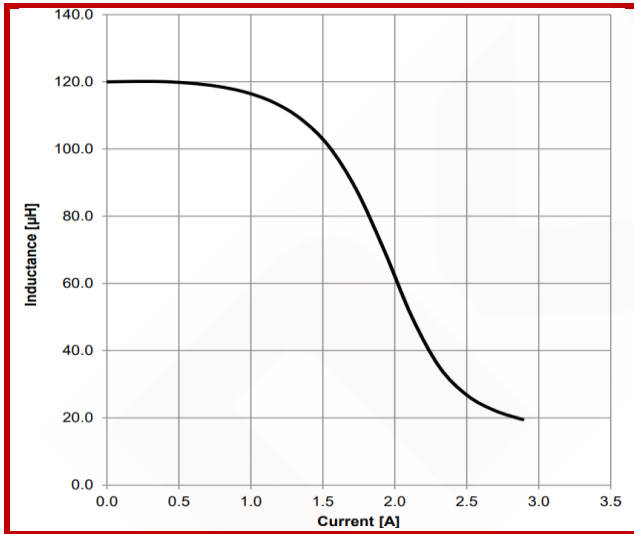
SPI04-1206-820M



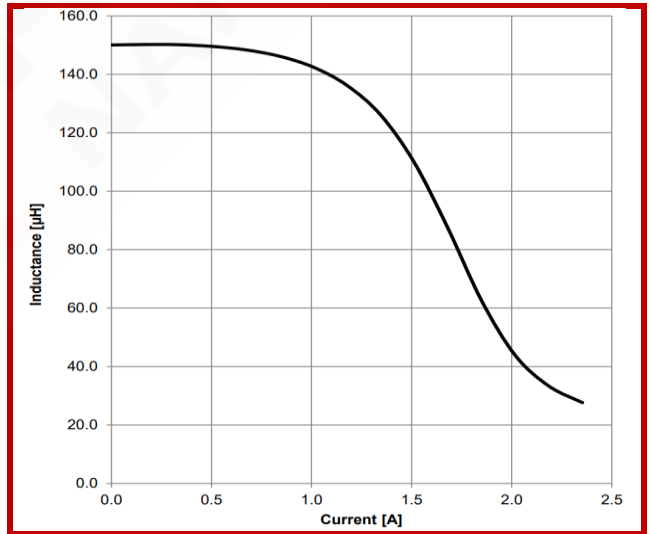
SPI04-1206-101M



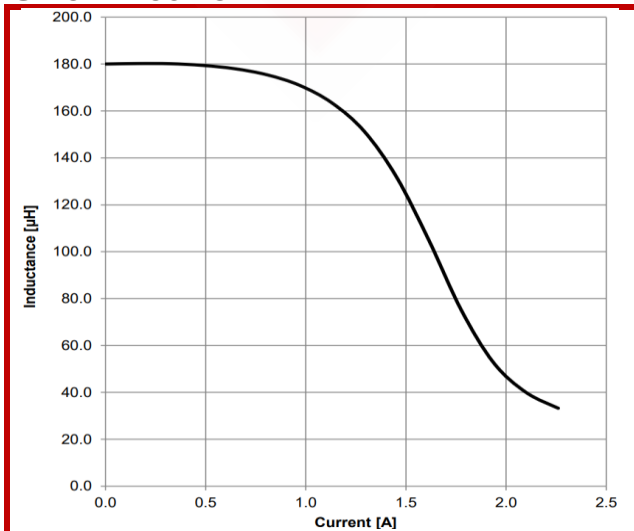
SPI04-1206-121M



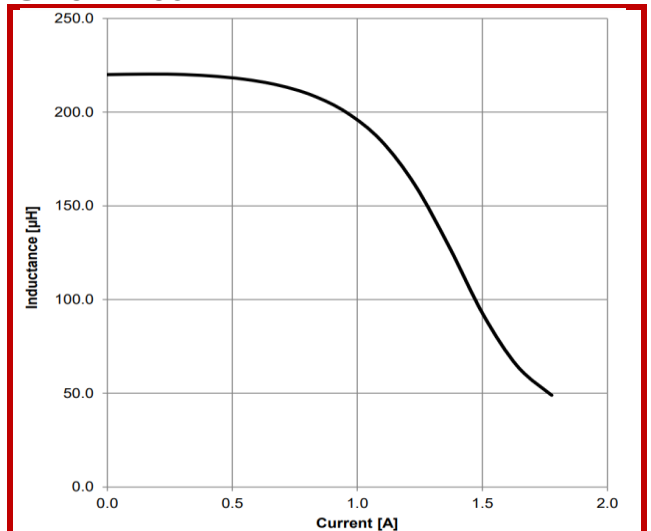
SPI04-1206-151M



SPI04-1206-181M



SPI04-1206-221M

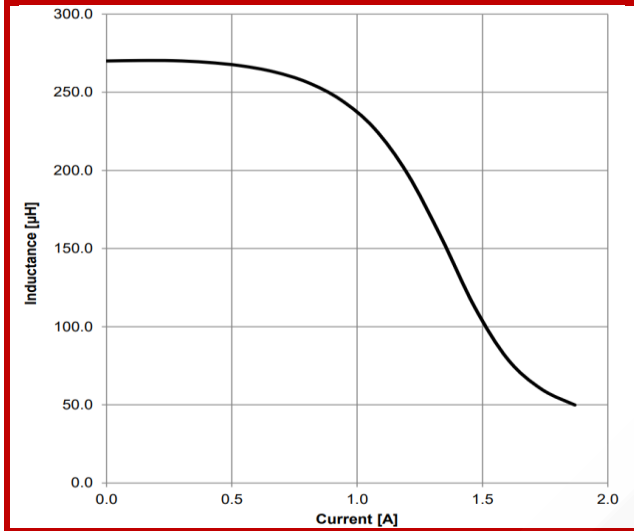




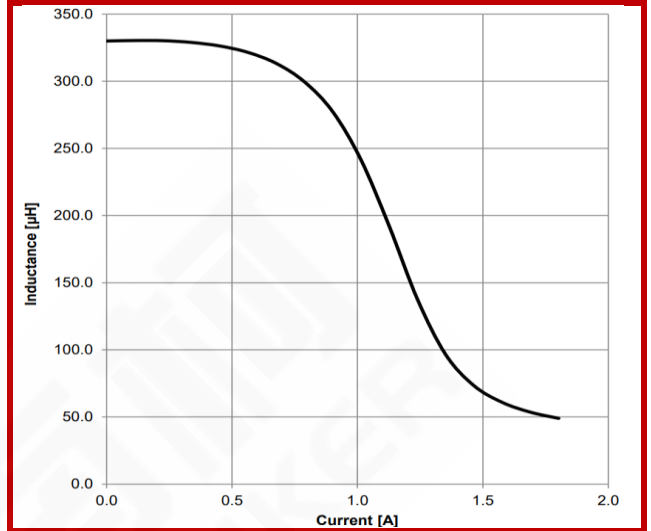
典型电感与电流特性

Typical Inductance vs. Current Characteristics

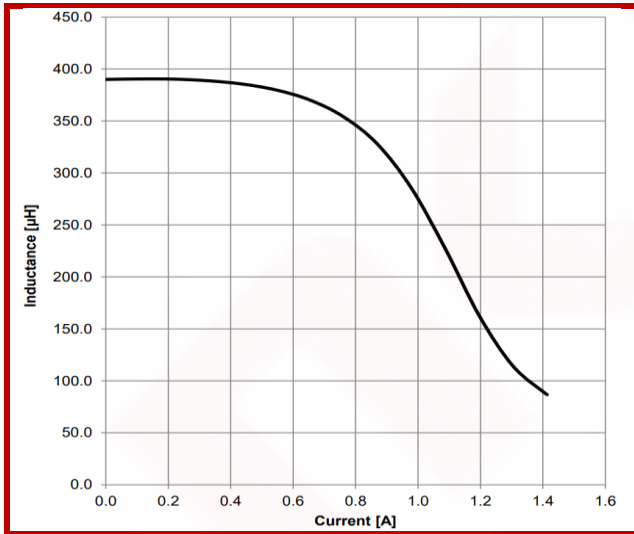
SPI04-1206-271M



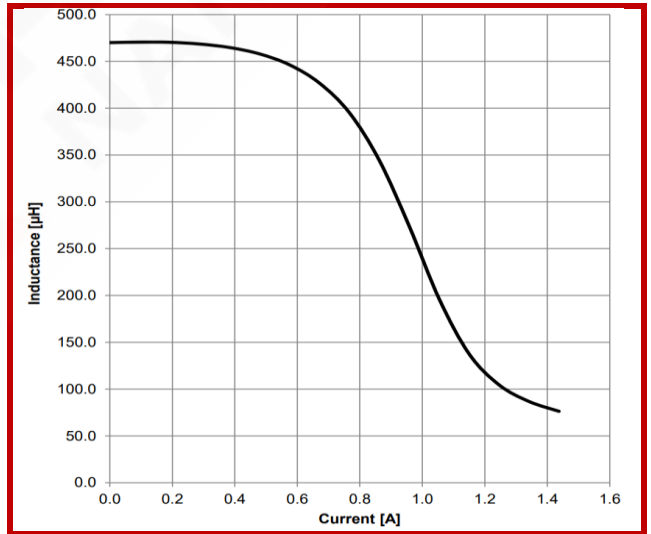
SPI04-1206-331M



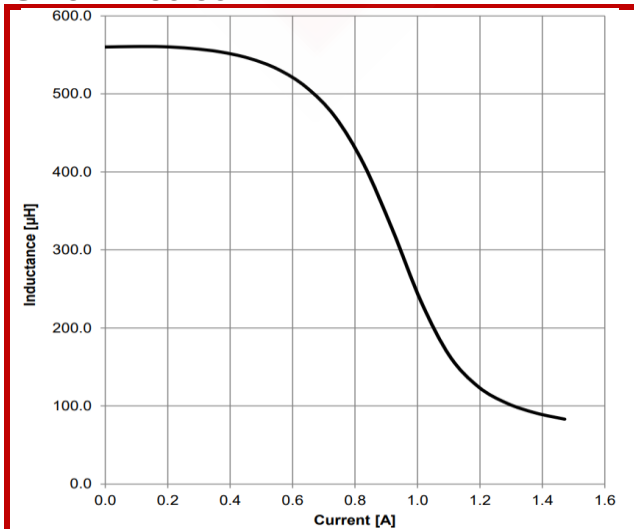
SPI04-1206-391M



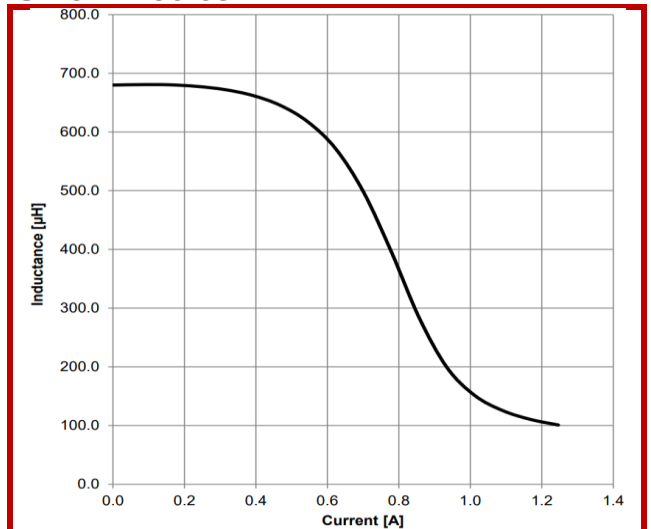
SPI04-1206-471M



SPI04-1206-561M



SPI04-1206-681M

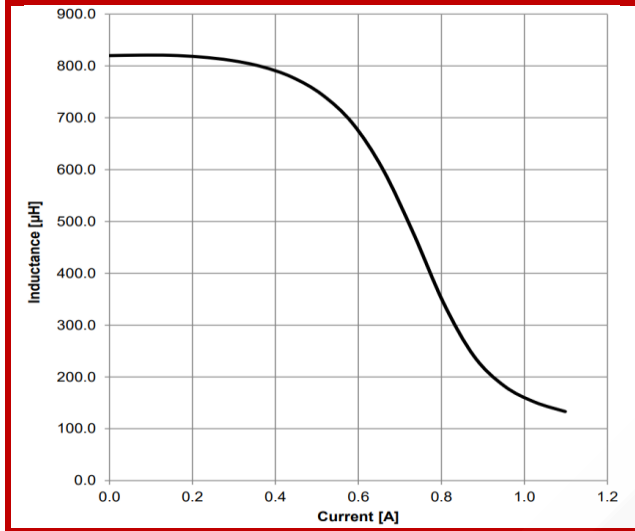




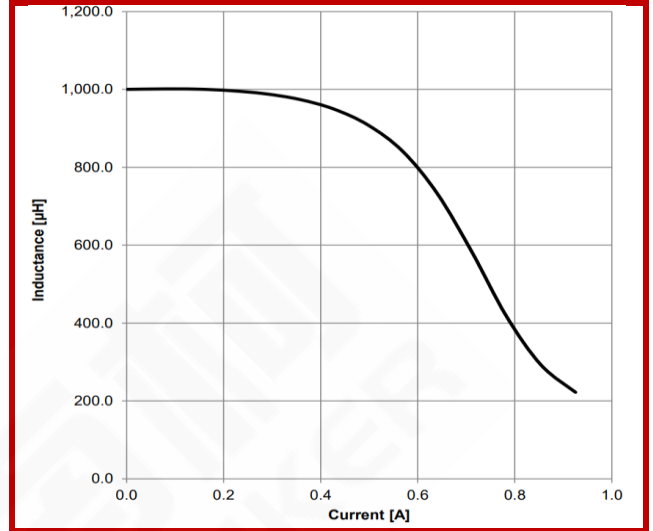
典型电感与电流特性

Typical Inductance vs. Current Characteristics

SPI04-1206-821M



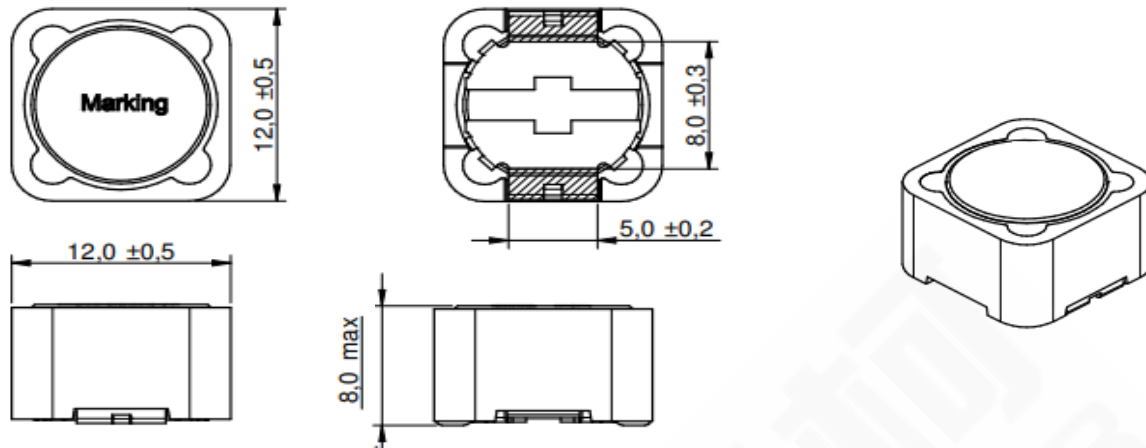
SPI04-1206-102M





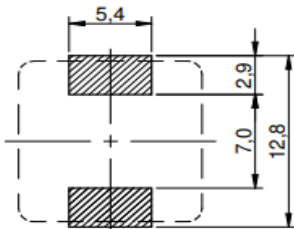
尺寸

Dimension (mm)



焊盘推荐

Land Pattern Recommended (mm)



示意图

Schematics



电性特性

Electrical Properties

型号 Part No.	电感 Inductance μH	温升电流 Rated Current I _r typ 40°C (A)	直流电阻 DC Resistance DCR _{max} (mΩ)	饱和电流 Saturation Current I _{sat} typ (A)	卷盘数量 Taping Reel Qty. pcs
SPI04-1208-R47M	0.47 +20%/-25%	23.50	3.00	26.40	500
SPI04-1208-R75M	0.75 +20%/-25%	19.80	4.00	21.00	500
SPI04-1208-1R2M	1.20 +20%/-25%	12.00	7.00	16.60	500
SPI04-1208-1R5M	1.50 +20%/-25%	10.00	6.00	12.00	500
SPI04-1208-2R4M	2.40 +20%/-25%	10.10	12.00	14.30	500
SPI04-1208-3R5M	3.50 +20%/-25%	8.90	14.00	9.60	500
SPI04-1208-4R7M	4.70 +20%/-25%	8.50	16.00	9.30	500
SPI04-1208-5R6M	5.60 +20%/-25%	8.00	17.00	8.20	500
SPI04-1208-6R1M	6.10 +20%/-25%	7.60	18.00	8.60	500
SPI04-1208-7R6M	7.60 +20%/-25%	7.40	20.00	8.00	500
SPI04-1208-100M	10.00 +20%/-25%	6.20	22.00	6.60	500

测试状态

Test Condition

☆ 电感测试条件为 1.0 kHz/ 250 mV

Inductance measure condition at 1.0 kHz/ 250 mV

☆ 工作温度: -40°C ~ +125°C

Operating Temperature: -40°C ~ +125°C

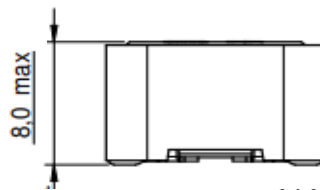
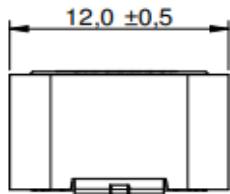
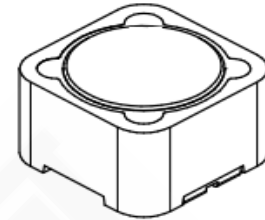
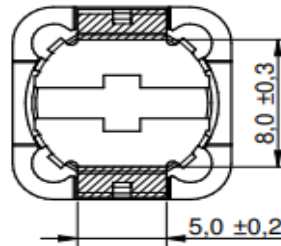
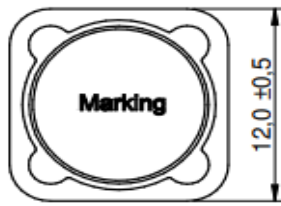
☆ 饱和电流: 电感值下降其初始值的10%时所加载的实际直流电流值

Saturation Current: The actual value of DC current when the inductance drop 10% of initial value



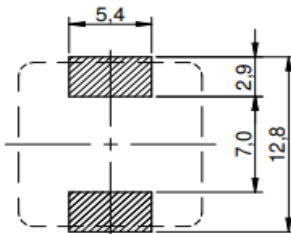
尺寸

Dimension (mm)



焊盘推荐

Land Pattern Recommended (mm)



示意图

Schematics



电性特性

Electrical Properties

型号 Part No.	电感 Inductance μH	温升电流 Rated Current I _r typ 40°C (A)	直流电阻 DC Resistance DCR _{max} (mΩ)	饱和电流 Saturation Current I _{sat} typ (A)	卷盘数量 Taping Reel Qty. pcs
SPI04-1208-120M	12.00 +20%/-25%	5.90	24.00	6.30	500
SPI04-1208-150M	15.00 +20%/-25%	5.00	27.00	6.00	500
SPI04-1208-180M	18.00 +20%/-25%	4.20	39.00	5.40	500
SPI04-1208-220M	22.00 +20%/-25%	4.10	43.00	5.00	500
SPI04-1208-270M	27.00 +20%/-25%	3.90	46.00	3.80	500
SPI04-1208-330M	33.00 +20%/-25%	3.20	64.00	3.60	500
SPI04-1208-390M	39.00 +20%/-25%	3.00	73.00	3.50	500
SPI04-1208-470M	47.00 +20%/-25%	2.70	100.00	3.00	500
SPI04-1208-560M	56.00 +20%/-25%	2.40	110.00	2.90	500
SPI04-1208-680M	68.00 +20%/-25%	2.30	140.00	2.50	500
SPI04-1208-820M	82.00 +20%/-25%	2.25	160.00	2.45	500

测试状态

Test Condition

☆ 电感测试条件为 1.0 kHz/ 250 mV

Inductance measure condition at 1.0 kHz/ 250 mV

☆ 工作温度: -40°C ~ +125°C

Operating Temperature: -40°C ~ +125°C

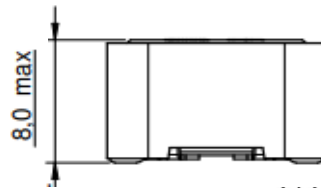
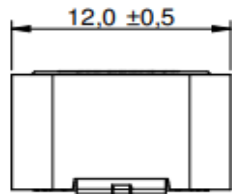
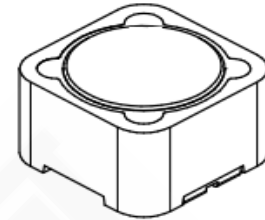
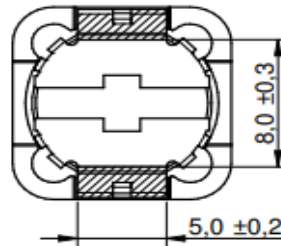
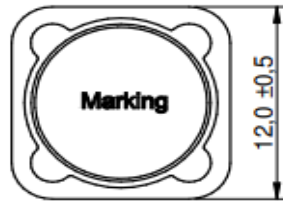
☆ 饱和电流: 电感值下降其初始值的10%时所加载的实际直流电流值

Saturation Current: The actual value of DC current when the inductance drop 10% of initial value



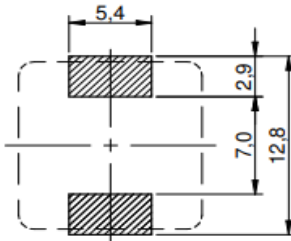
尺寸

Dimension (mm)



焊盘推荐

Land Pattern Recommended (mm)



示意图

Schematics



电性特性

Electrical Properties

型号 Part No.	电感 Inductance μH	温升电流 Rated Current I _r typ 40°C (A)	直流电阻 DC Resistance DCR _{max} (mΩ)	饱和电流 Saturation Current I _{sat} typ (A)	卷盘数量 Taping Reel Qty. pcs
SPI04-1208-101M	100 +20%/-25%	2.20	220	2.40	500
SPI04-1208-151M	150 +20%/-25%	2.10	280	1.80	500
SPI04-1208-181M	180 +20%/-25%	1.40	350	1.60	500
SPI04-1208-221M	220 +20%/-25%	1.30	390	1.49	500
SPI04-1208-331M	330 +20%/-25%	1.10	640	1.10	500
SPI04-1208-471M	470 +20%/-25%	0.90	980	0.90	500
SPI04-1208-561M	560 +20%/-25%	0.80	1,070	0.90	500
SPI04-1208-681M	680 +20%/-25%	0.70	1,460	0.80	500
SPI04-1208-821M	820 +20%/-25%	0.60	1,640	0.80	500
SPI04-1208-102M	1,000 +20%/-25%	0.50	1,820	0.70	500

测试状态

Test Condition

☆ 电感测试条件为 1.0 kHz/ 250 mV

Inductance measure condition at 1.0 kHz/ 250 mV

☆ 工作温度: -40°C ~ +125°C

Operating Temperature: -40°C ~ +125°C

☆ 饱和电流: 电感值下降其初始值的10%时所加载的实际直流电流值

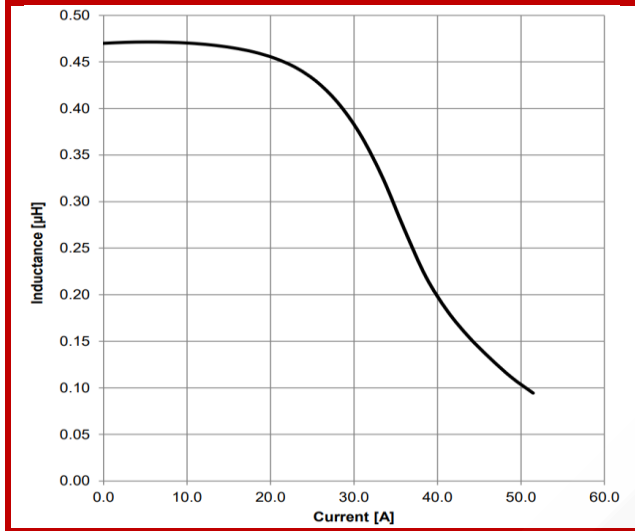
Saturation Current: The actual value of DC current when the inductance drop 10% of initial value



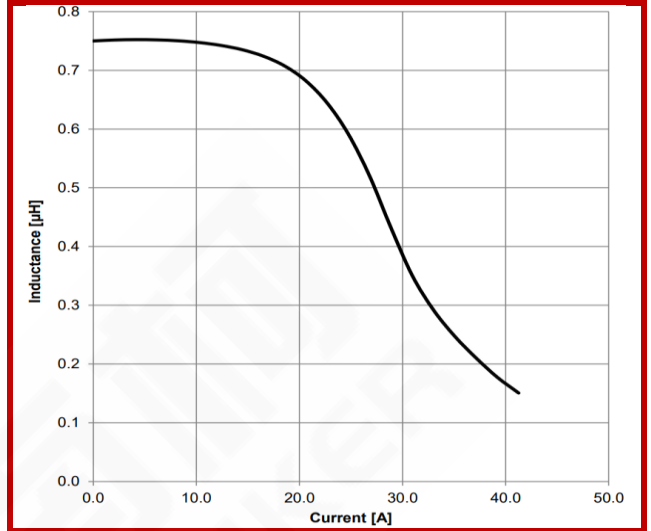
典型电感与电流特性

Typical Inductance vs. Current Characteristics

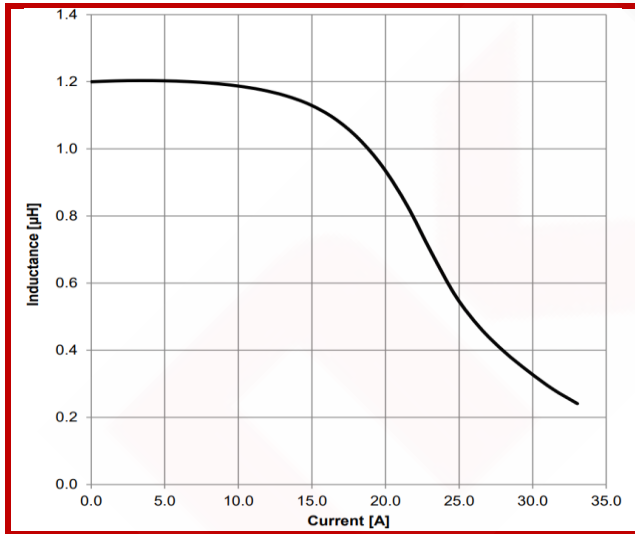
SPI04-1208-R47M



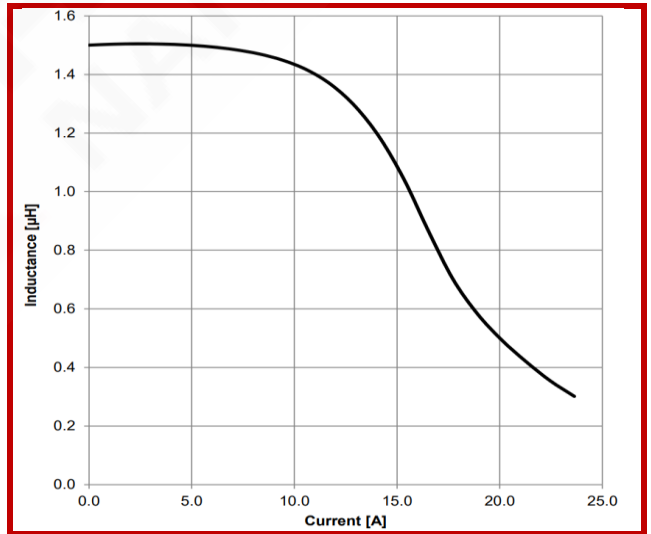
SPI04-1208-R75M



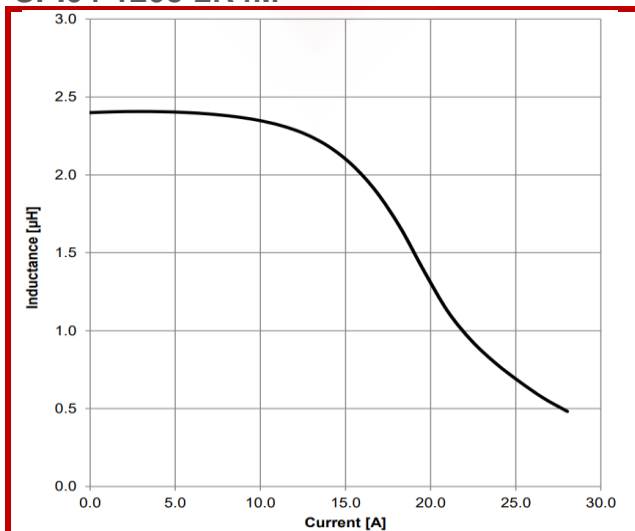
SPI04-1208-1R2M



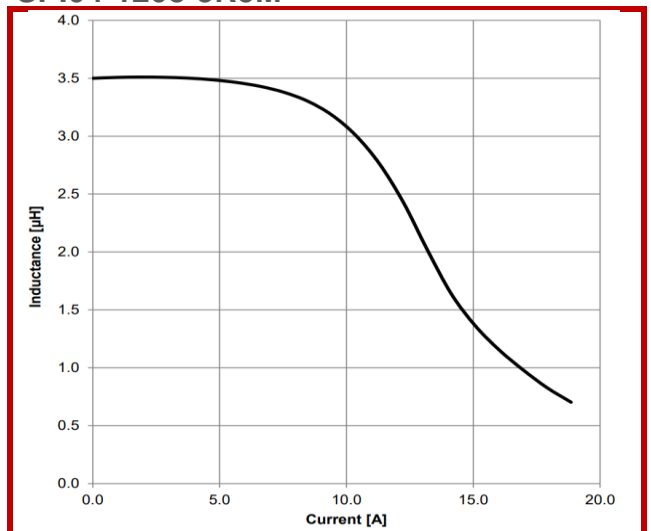
SPI04-1208-1R5M



SPI04-1208-2R4M



SPI04-1208-3R5M

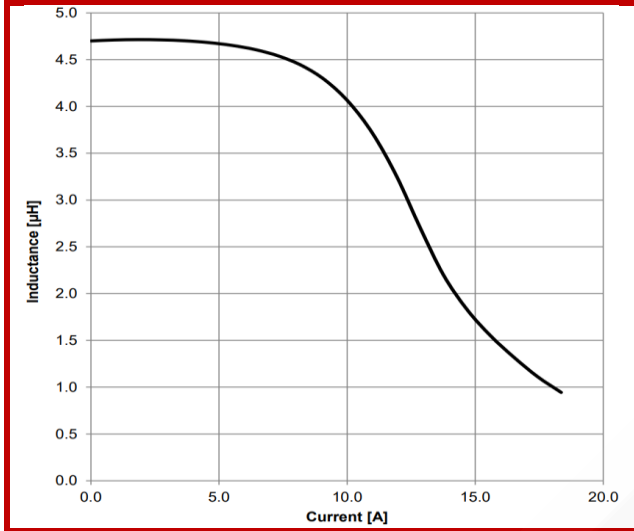




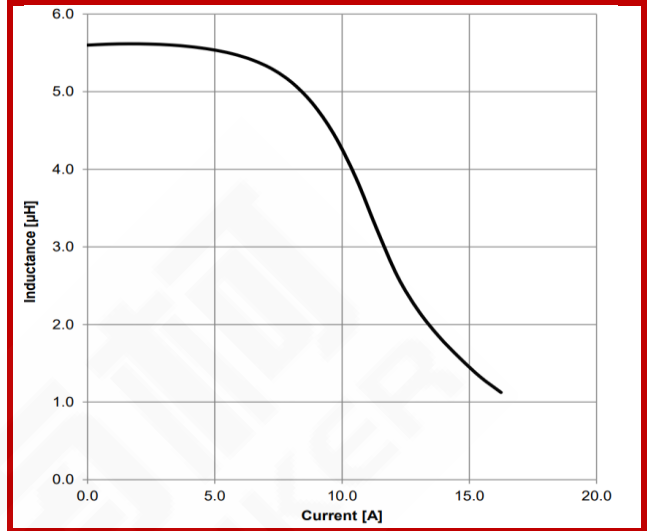
典型电感与电流特性

Typical Inductance vs. Current Characteristics

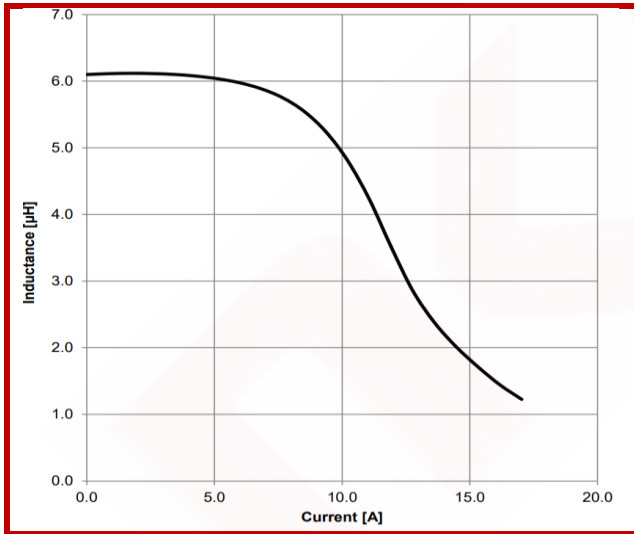
SPI04-1208-4R7M



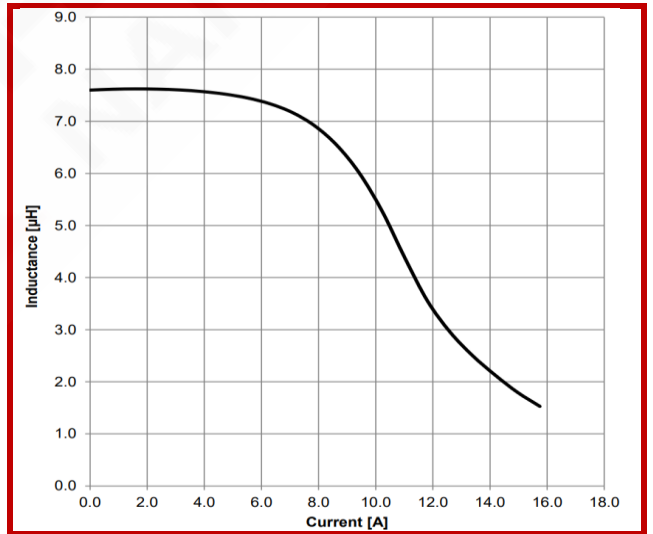
SPI04-1208-5R6M



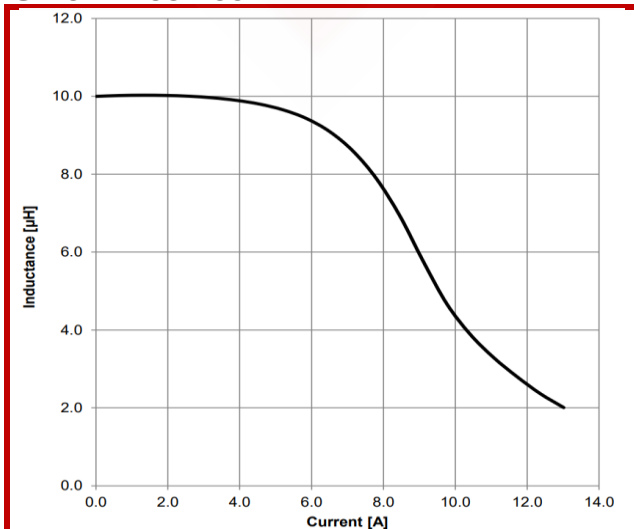
SPI04-1208-6R1M



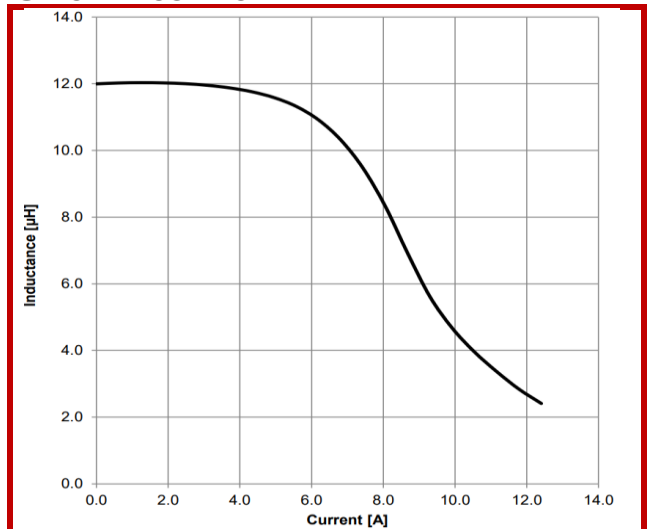
SPI04-1208-7R6M



SPI04-1208-100M



SPI04-1208-120M

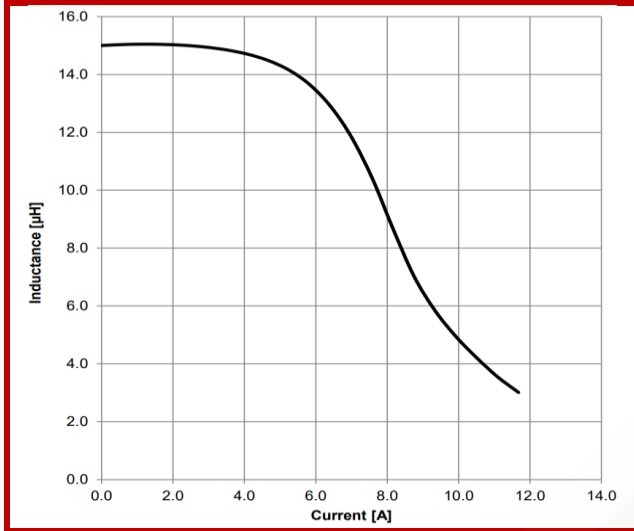




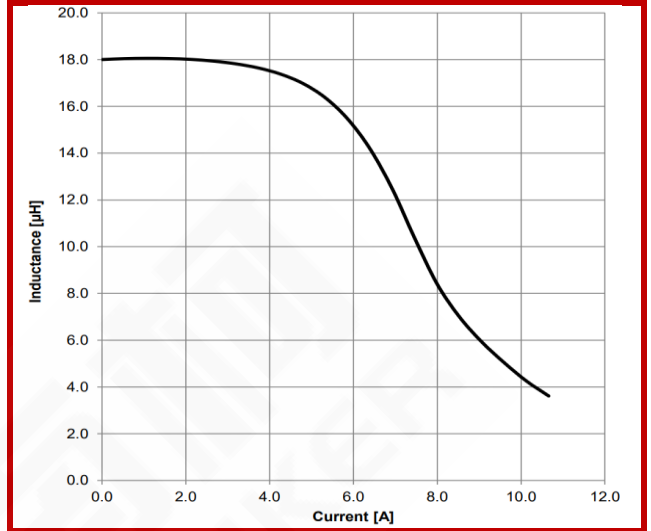
典型电感与电流特性

Typical Inductance vs. Current Characteristics

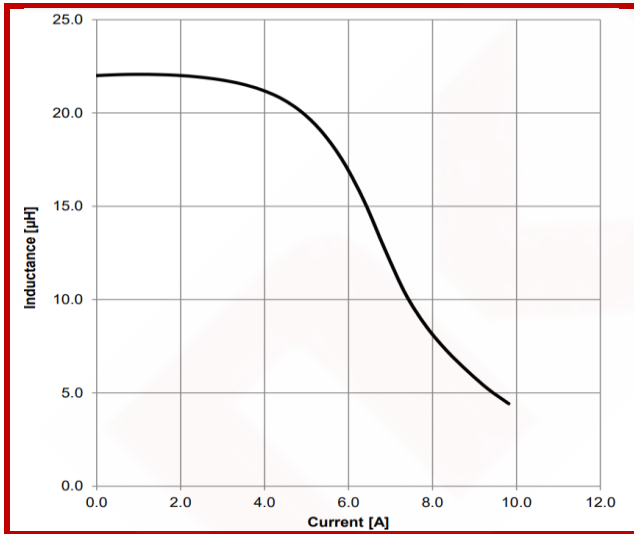
SPI04-1208-150M



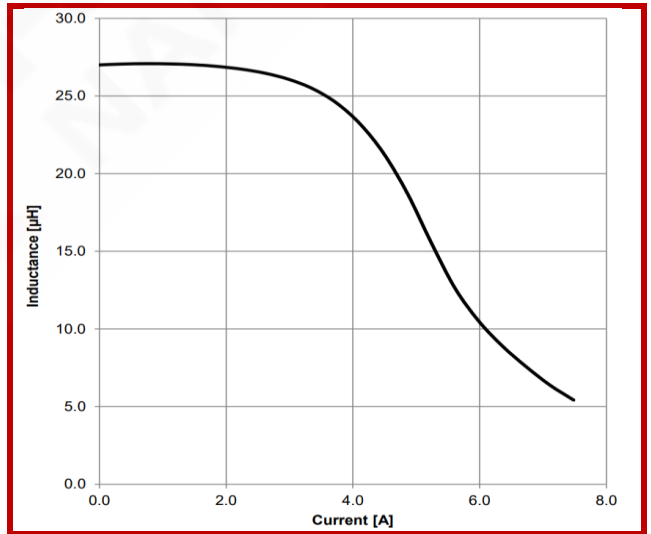
SPI04-1208-180M



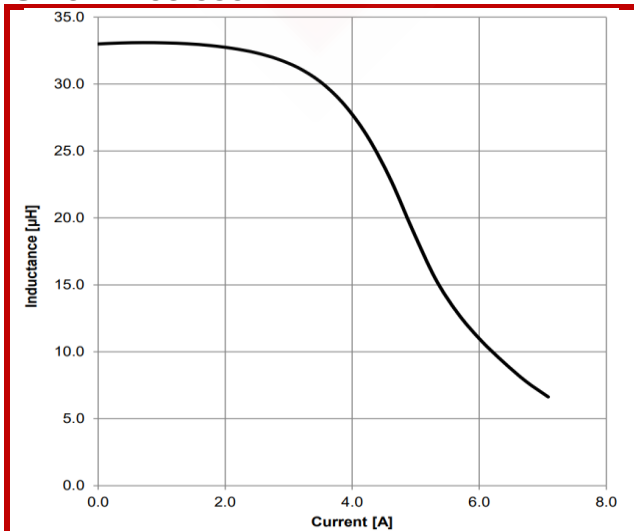
SPI04-1208-220M



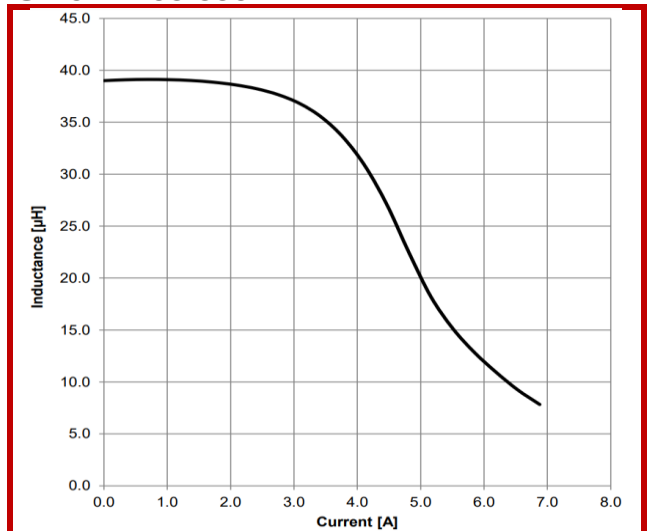
SPI04-1208-270M



SPI04-1208-330M



SPI04-1208-390M

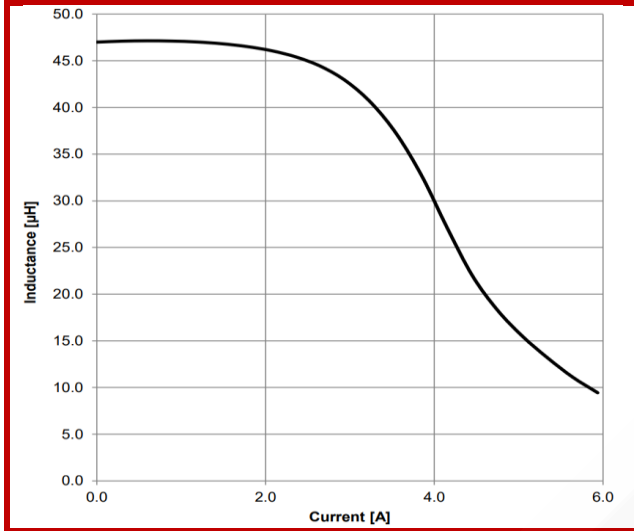




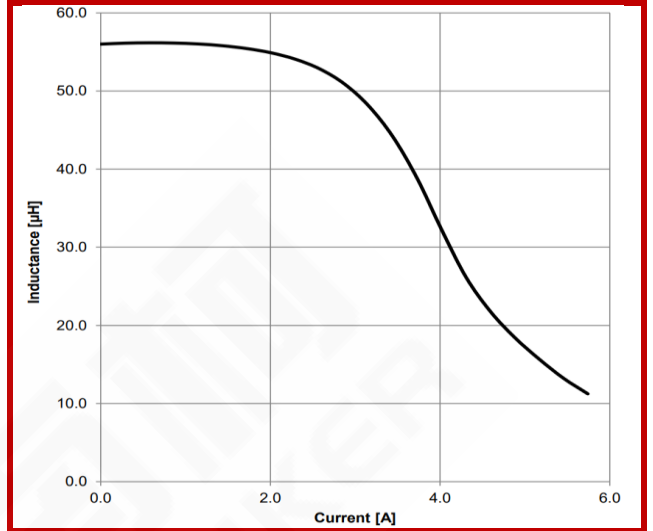
典型电感与电流特性

Typical Inductance vs. Current Characteristics

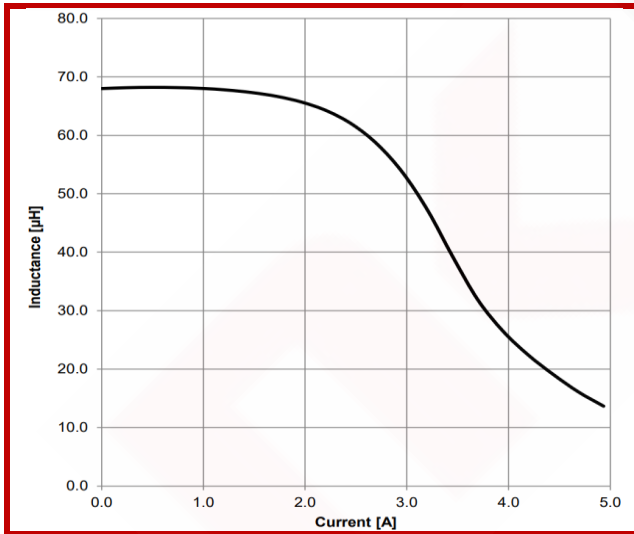
SPI04-1208-470M



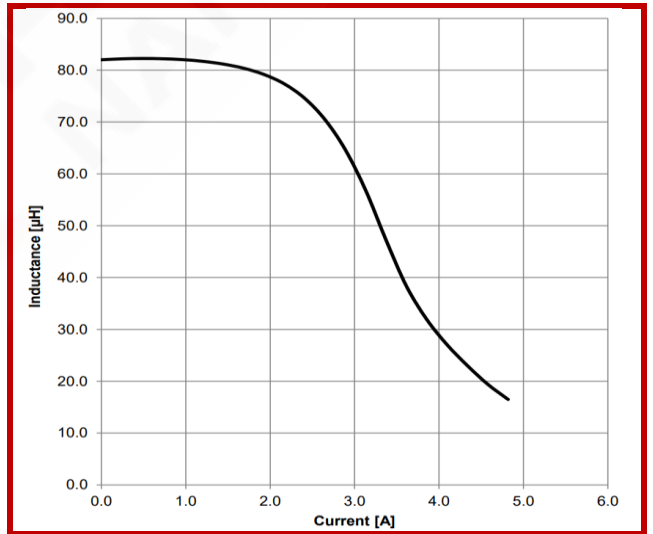
SPI04-1208-560M



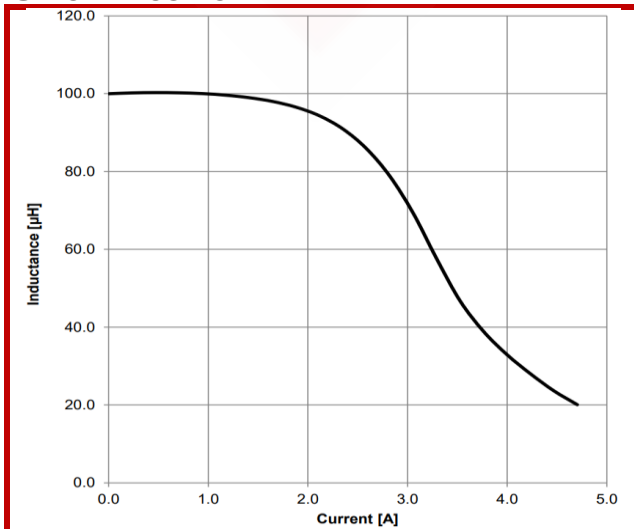
SPI04-1208-680M



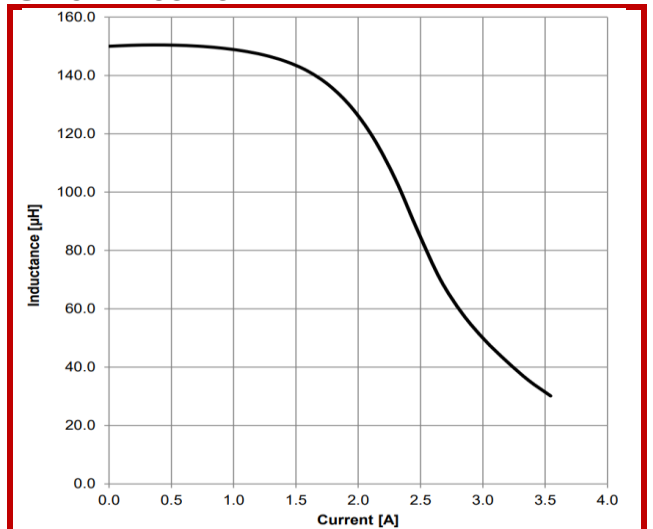
SPI04-1208-820M



SPI04-1208-101M



SPI04-1208-151M

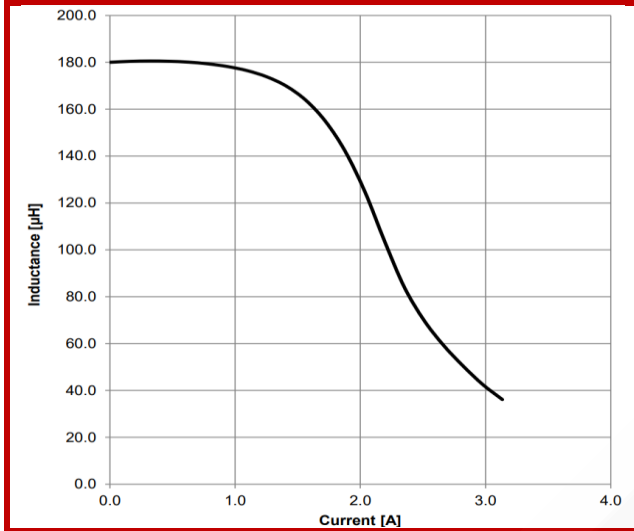




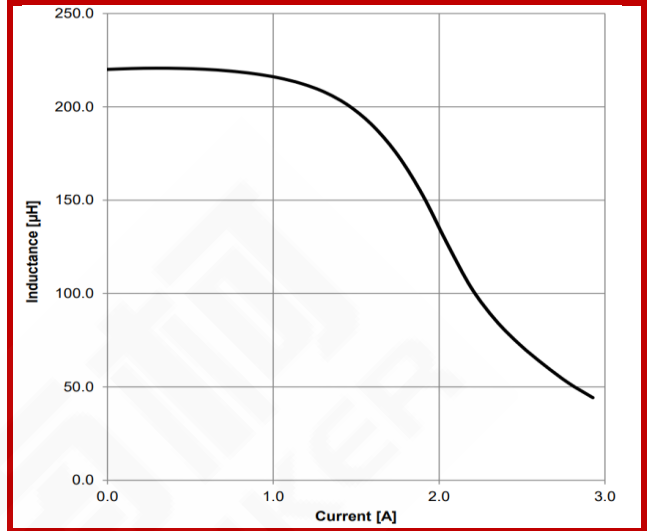
典型电感与电流特性

Typical Inductance vs. Current Characteristics

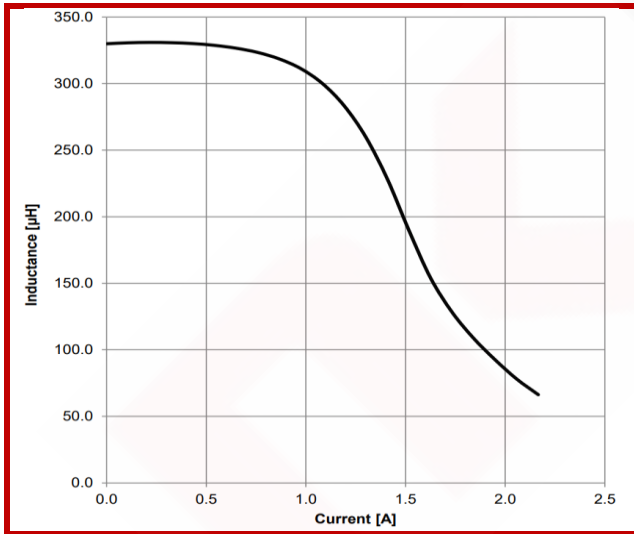
SPI04-1208-181M



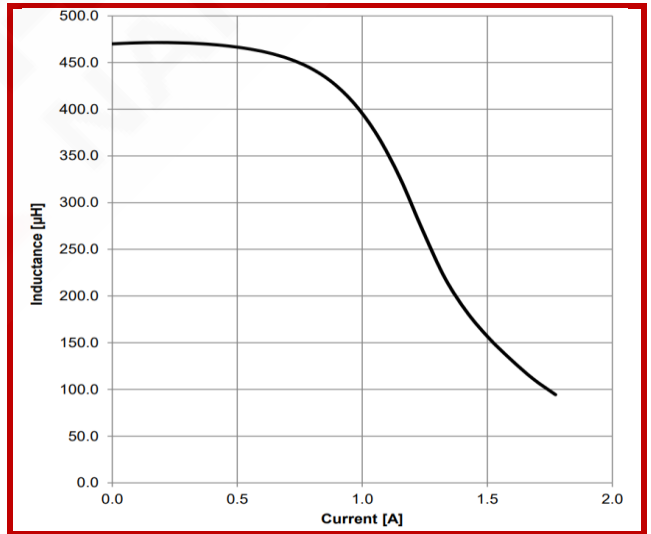
SPI04-1208-221M



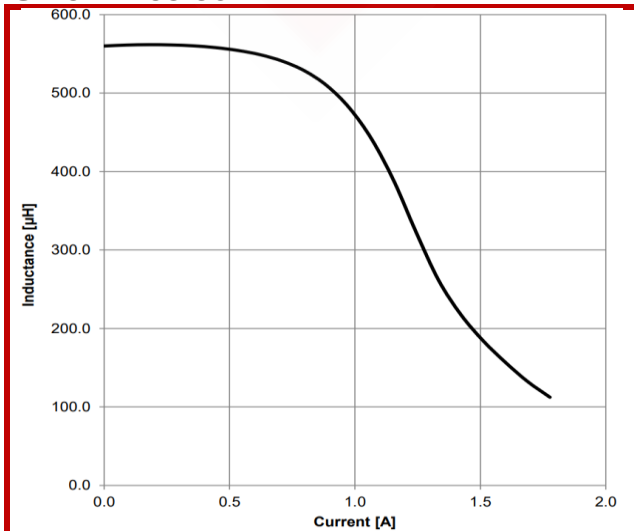
SPI04-1208-331M



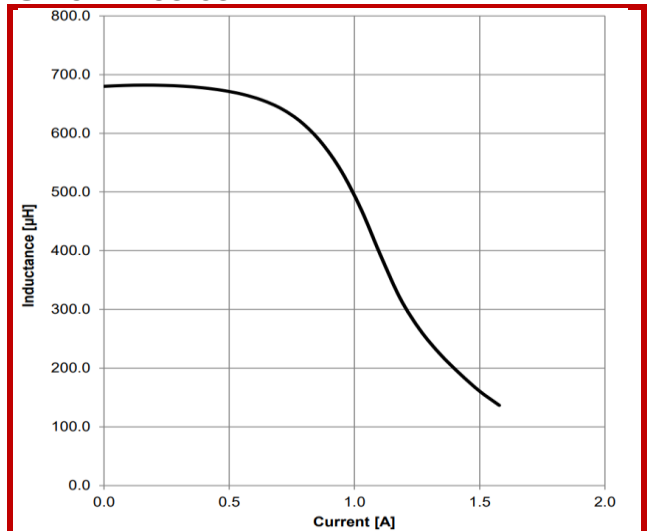
SPI04-1208-471M



SPI04-1208-561M



SPI04-1208-681M

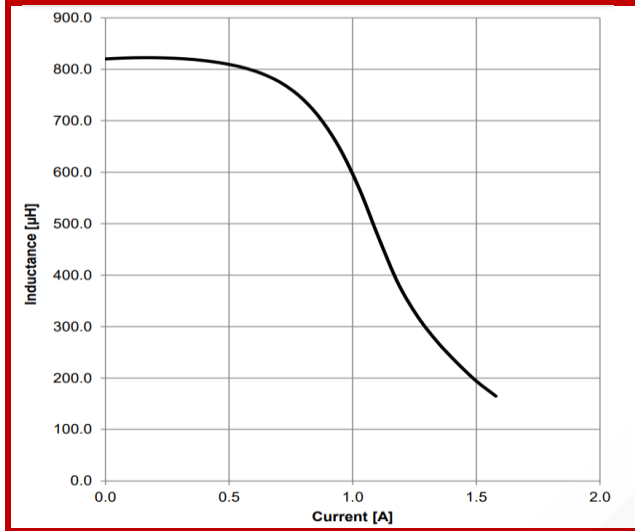




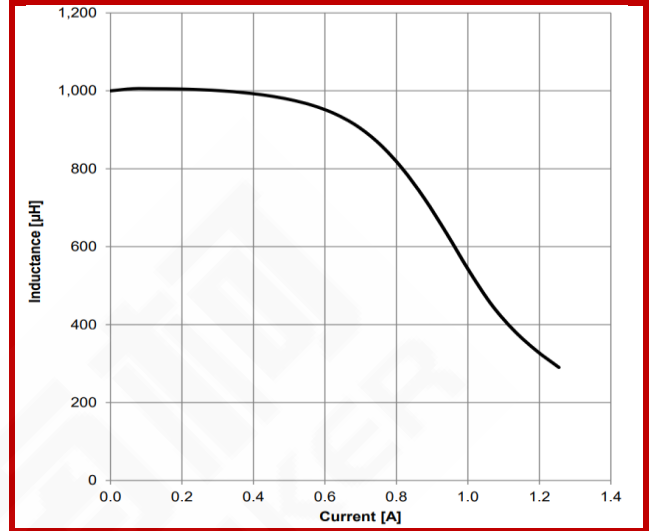
典型电感与电流特性

Typical Inductance vs. Current Characteristics

SPI04-1208-821M



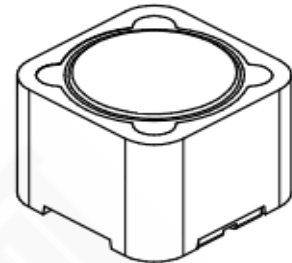
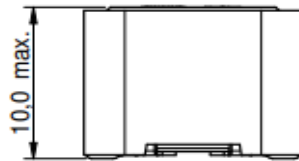
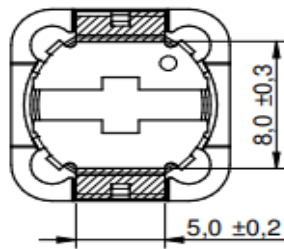
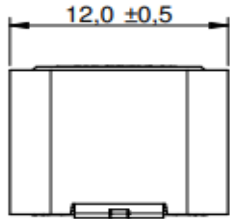
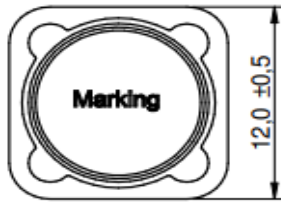
SPI04-1208-102M





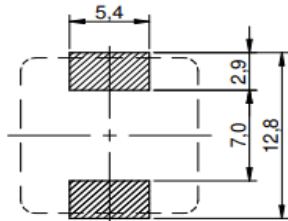
尺寸

Dimension (mm)



焊盘推荐

Land Pattern Recommended (mm)



示意图

Schematics



电性特性

Electrical Properties

型号 Part No.	电感 Inductance μH	温升电流 Rated Current I _r typ 40°C (A)	直流电阻 DC Resistance DCR _{max} (mΩ)	饱和电流 Saturation Current I _{sat} typ (A)	卷盘数量 Taping Reel Qty. pcs
SPI04-1210-1R0M	1.00 ±20%	13.00	6.00	25.00	250
SPI04-1210-2R2M	2.20 ±20%	11.50	6.00	20.00	250
SPI04-1210-3R5M	3.50 ±20%	11.00	9.00	16.50	250
SPI04-1210-4R7M	4.70 ±20%	9.30	11.00	13.00	250
SPI04-1210-6R8M	6.80 ±20%	8.40	14.00	12.80	250
SPI04-1210-100M	10.00 ±20%	7.10	21.00	10.50	250
SPI04-1210-150M	15.00 ±20%	6.50	26.00	8.00	250
SPI04-1210-220M	22.00 ±20%	5.30	28.00	6.50	250
SPI04-1210-270M	27.00 ±20%	4.60	40.00	5.80	250

测试状态

Test Condition

☆ 电感测试条件为 1.0 kHz/ 250 mV

Inductance measure condition at 1.0 kHz/ 250 mV

☆ 工作温度: -40°C ~ +125°C

Operating Temperature: -40°C ~ +125°C

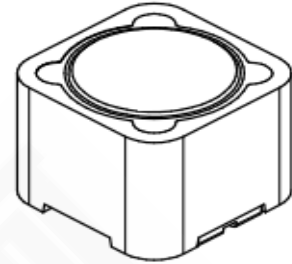
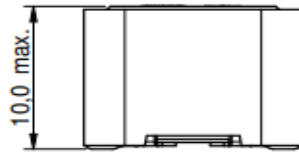
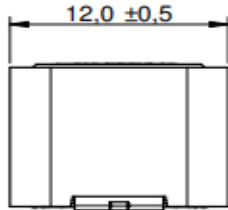
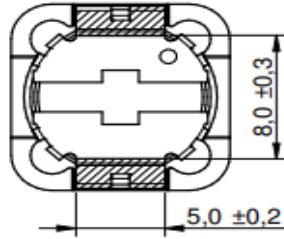
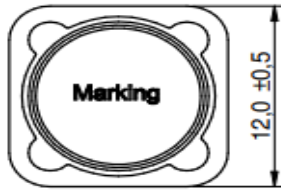
☆ 饱和电流: 电感值下降其初始值的10%时所加载的实际直流电流值

Saturation Current: The actual value of DC current when the inductance drop 10% of initial value



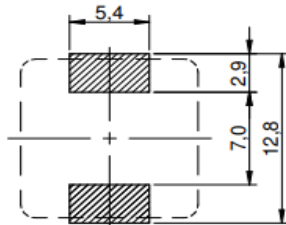
尺寸

Dimension (mm)



焊盘推荐

Land Pattern Recommended (mm)



示意图

Schematics



电性特性

Electrical Properties

型号 Part No.	电感 Inductance μH	温升电流 Rated Current I _r typ 40°C (A)	直流电阻 DC Resistance DCR _{max} (mΩ)	饱和电流 Saturation Current I _{sat} typ (A)	卷盘数量 Taping Reel Qty. pcs
SPI04-1210-330M	33.00 ±20%	4.20	45	5.50	250
SPI04-1210-390M	39.00 ±20%	4.10	56	5.00	250
SPI04-1210-470M	47.00 ±20%	3.80	60	4.50	250
SPI04-1210-680M	68.00 ±20%	3.20	89	3.60	250
SPI04-1210-820M	82.00 ±20%	2.75	105	3.40	250
SPI04-1210-101M	100.00 ±20%	2.50	110	3.10	250
SPI04-1210-151M	150.00 ±20%	2.10	200	2.80	250
SPI04-1210-221M	220.00 ±20%	1.80	300	2.20	250
SPI04-1210-271M	270.00 ±20%	1.60	330	2.10	250

测试状态

Test Condition

☆ 电感测试条件为 1.0 kHz/ 250 mV

Inductance measure condition at 1.0 kHz/ 250 mV

☆ 工作温度: -40°C ~ +125°C

Operating Temperature: -40°C ~ +125°C

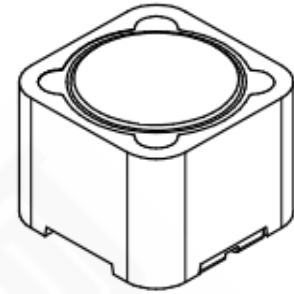
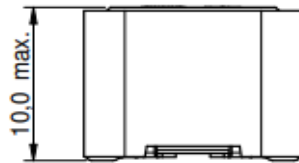
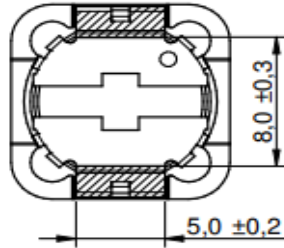
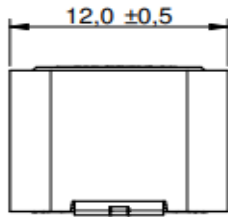
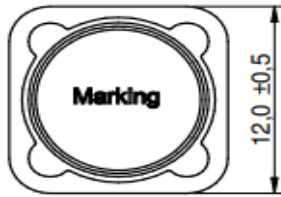
☆ 饱和电流: 电感值下降其初始值的10%时所加载的实际直流电流值

Saturation Current: The actual value of DC current when the inductance drop 10% of initial value



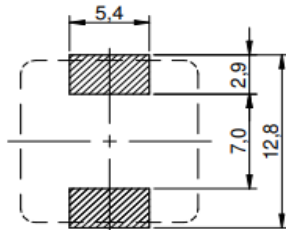
尺寸

Dimension (mm)



焊盘推荐

Land Pattern Recommended (mm)



示意图

Schematics



电性特性

Electrical Properties

型号 Part No.	电感 Inductance μH	温升电流 Rated Current I _r typ 40°C (A)	直流电阻 DC Resistance DCR _{max} (mΩ)	饱和电流 Saturation Current I _{sat} typ (A)	卷盘数量 Taping Reel Qty. pcs
SPI04-1210-331M	330 ±20%	1.50	430	1.70	250
SPI04-1210-471M	470 ±20%	1.40	560	1.50	250
SPI04-1210-681M	680 ±20%	1.10	825	1.30	250
SPI04-1210-821M	820 ±20%	0.95	1,000	1.10	250
SPI04-1210-102M	1,000 ±20%	0.90	1,200	1.00	250
SPI04-1210-152M	1,500 ±20%	0.80	2,300	0.80	250
SPI04-1210-222M	2,200 ±20%	0.53	3,750	0.75	250

测试状态

Test Condition

☆ 电感测试条件为 1.0 kHz/ 250 mV

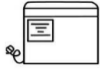
Inductance measure condition at 1.0 kHz/ 250 mV

☆ 工作温度: -40°C ~ +125°C

Operating Temperature: -40°C ~ +125°C

☆ 饱和电流: 电感值下降其初始值的10%时所加载的实际直流电流值

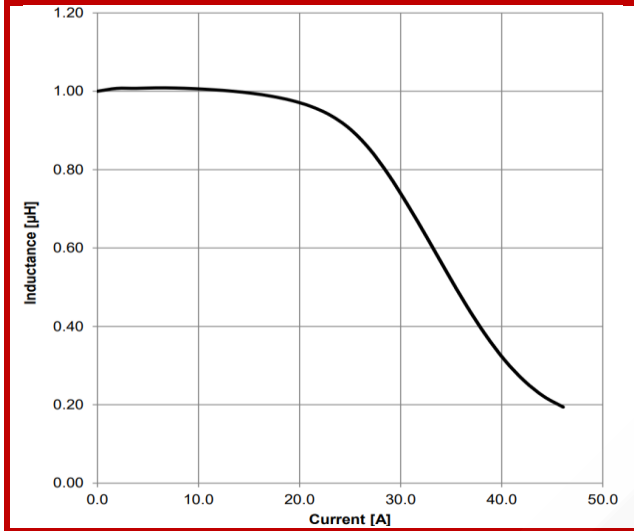
Saturation Current: The actual value of DC current when the inductance drop 10% of initial value



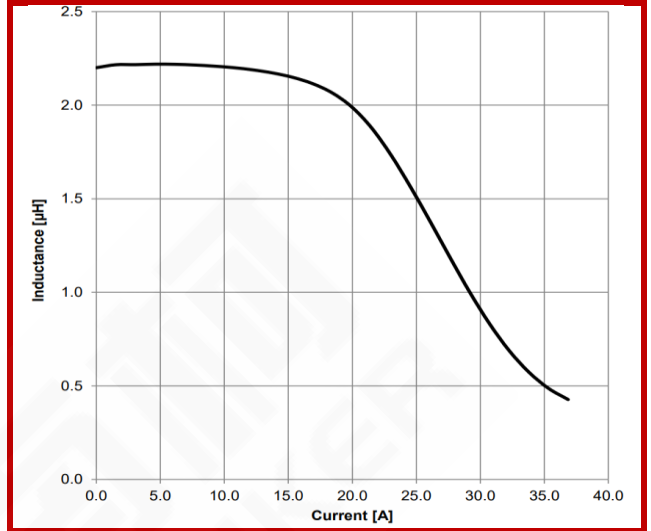
典型电感与电流特性

Typical Inductance vs. Current Characteristics

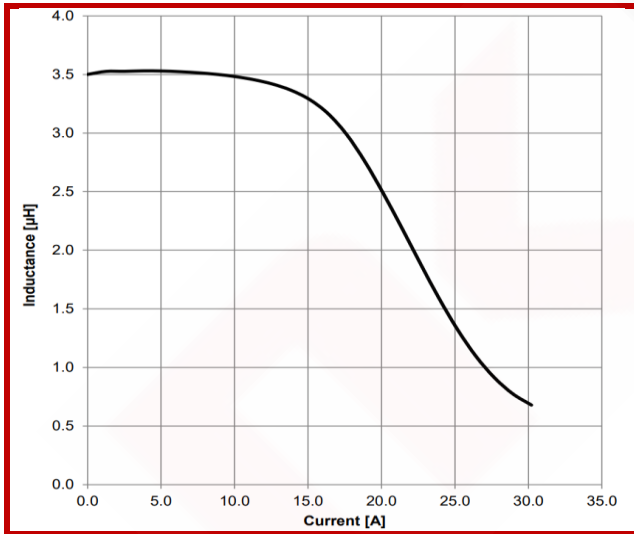
SPI04-1210-1R0M



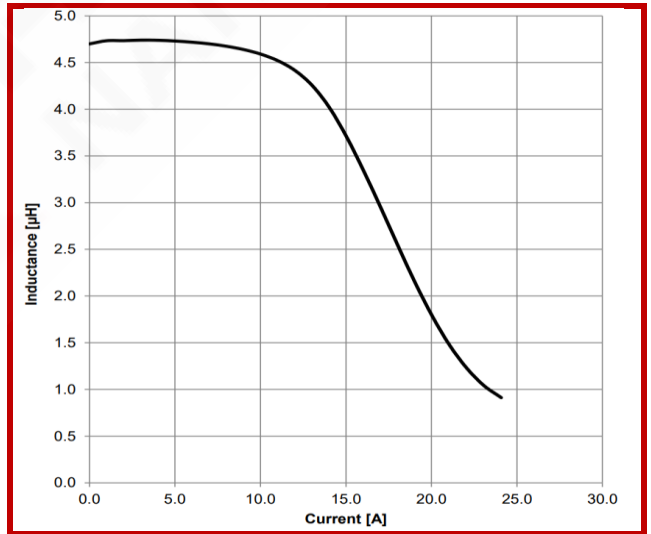
SPI04-1210-2R2M



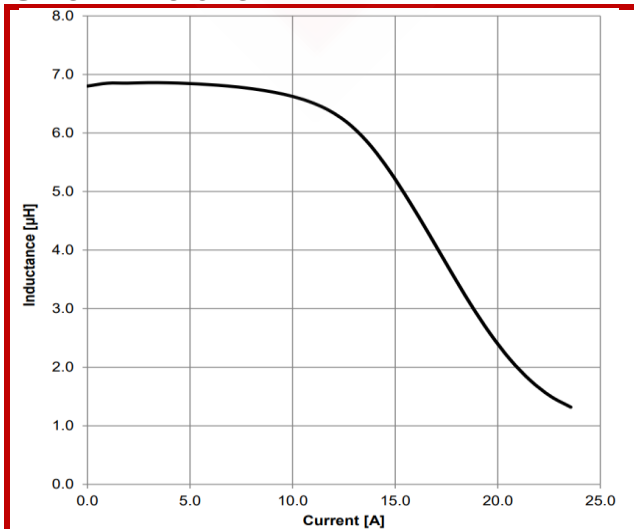
SPI04-1210-3R5M



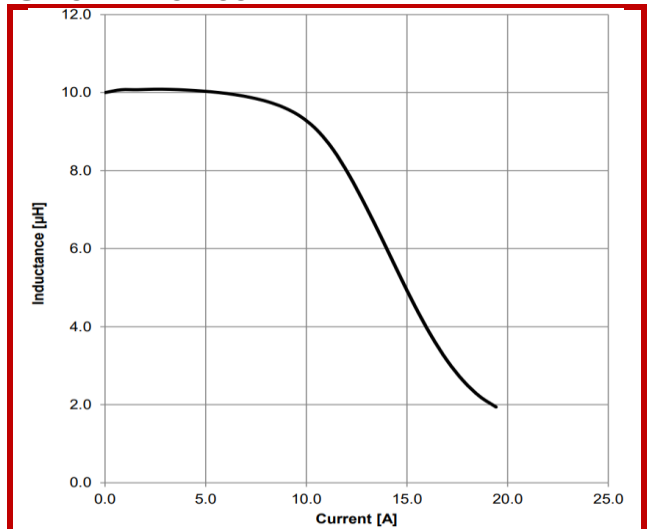
SPI04-1210-4R7M

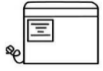


SPI04-1210-6R8M



SPI04-1210-100M

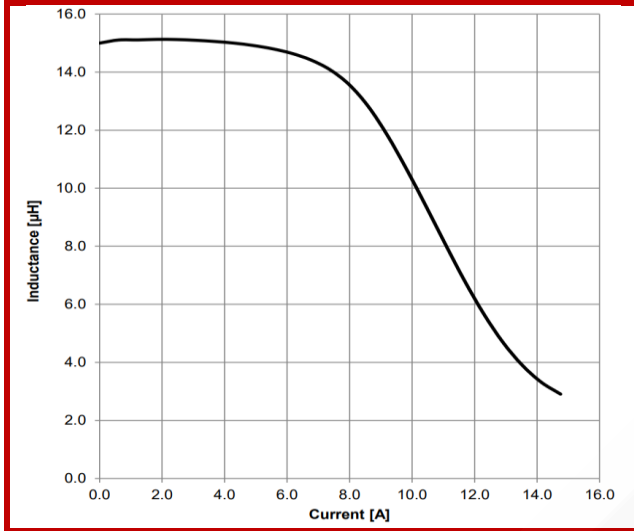




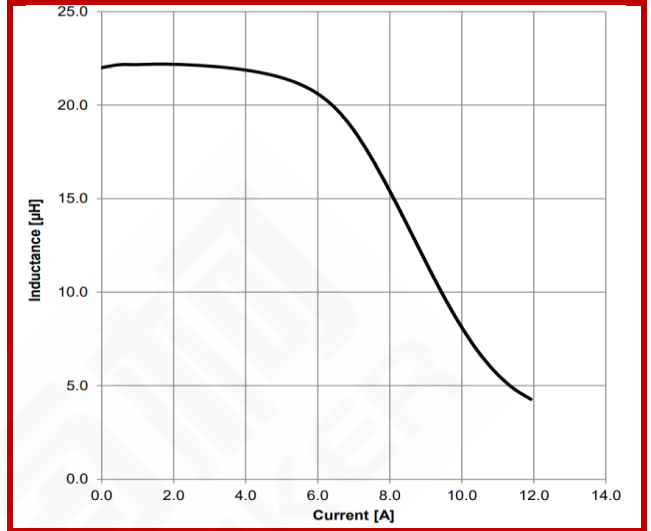
典型电感与电流特性

Typical Inductance vs. Current Characteristics

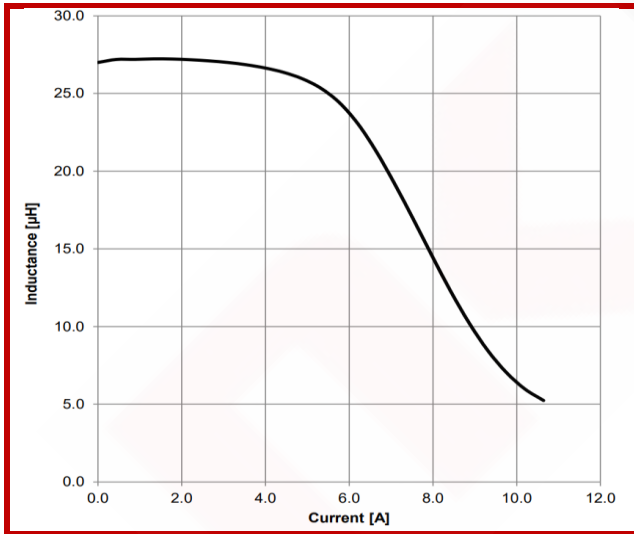
SPI04-1210-150M



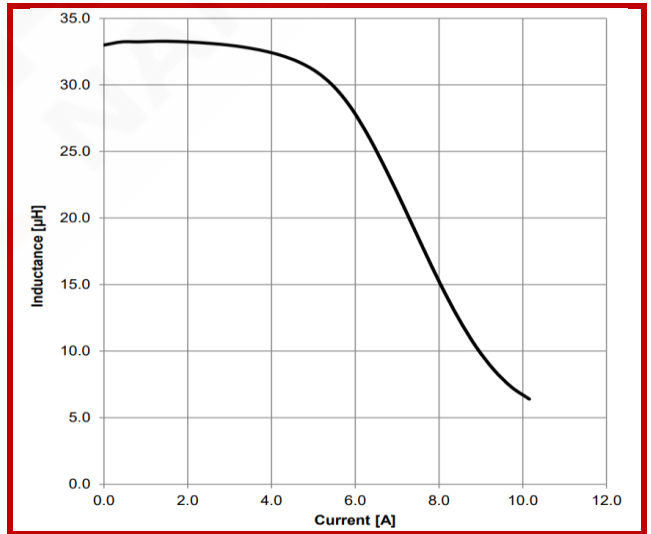
SPI04-1210-220M



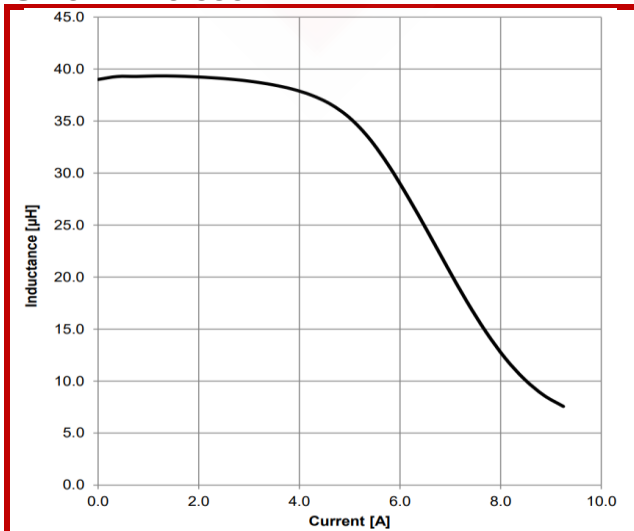
SPI04-1210-270M



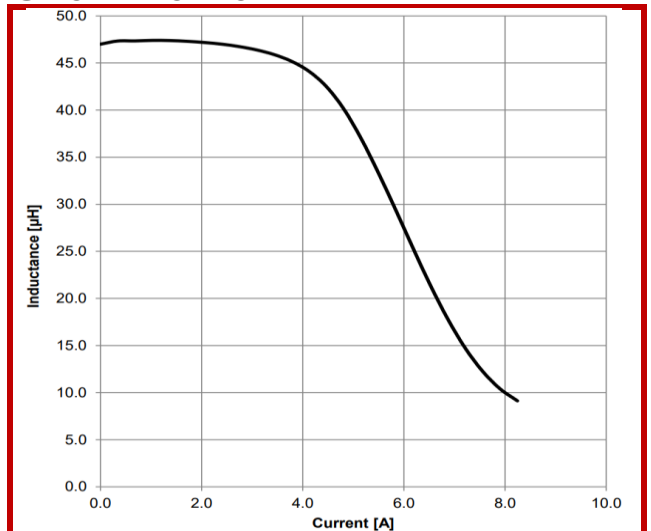
SPI04-1210-330M

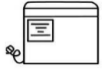


SPI04-1210-390M



SPI04-1210-470M

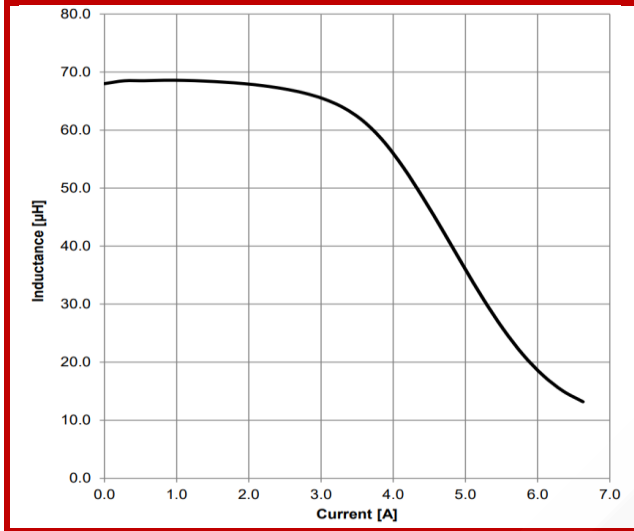




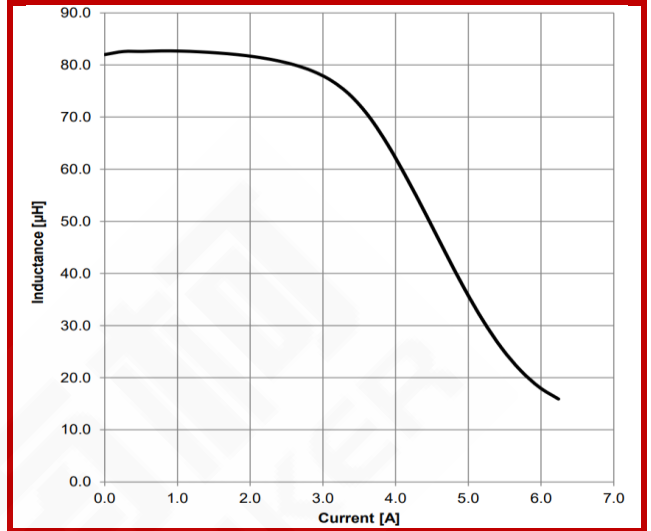
典型电感与电流特性

Typical Inductance vs. Current Characteristics

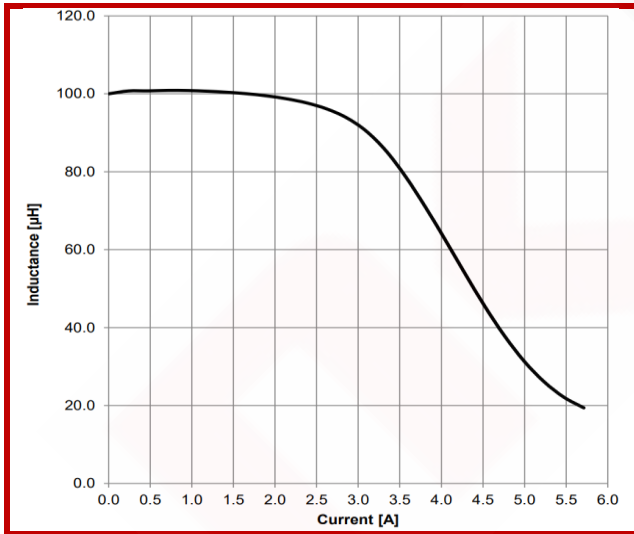
SPI04-1210-680M



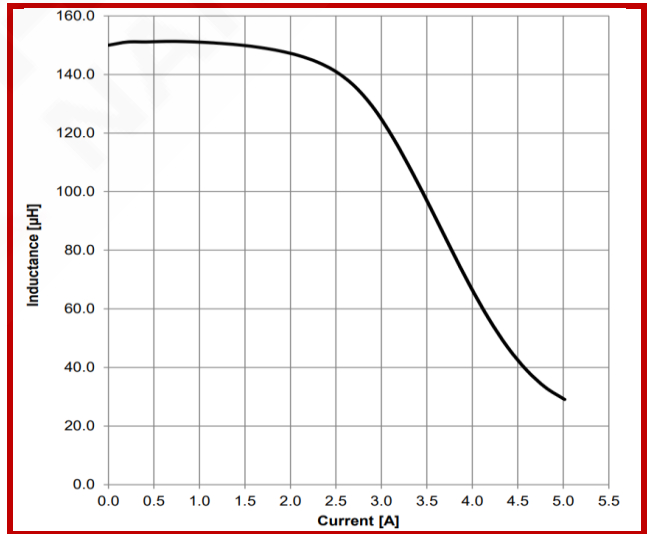
SPI04-1210-820M



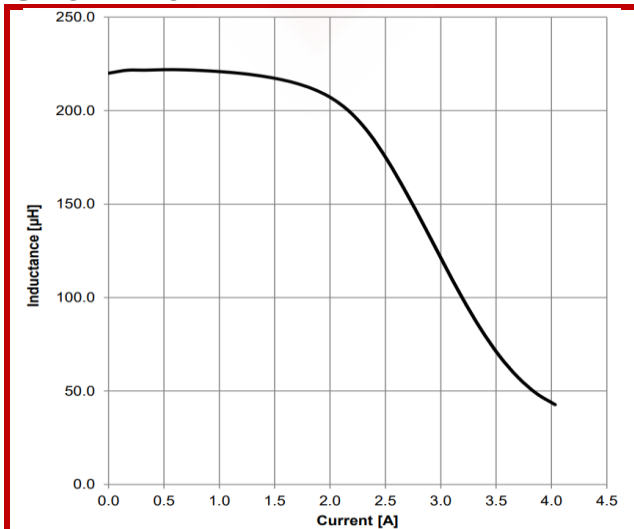
SPI04-1210-101M



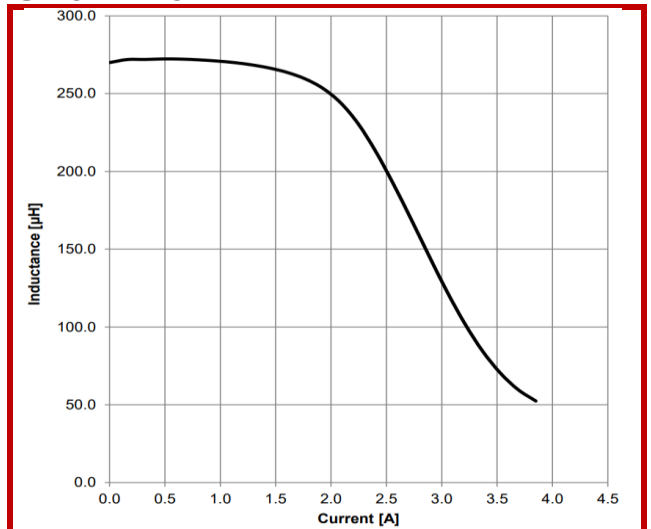
SPI04-1210-151M

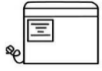


SPI04-1210-221M



SPI04-1210-271M

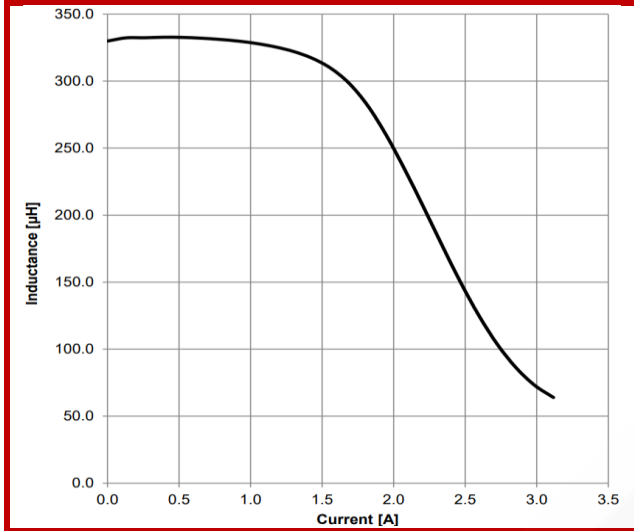




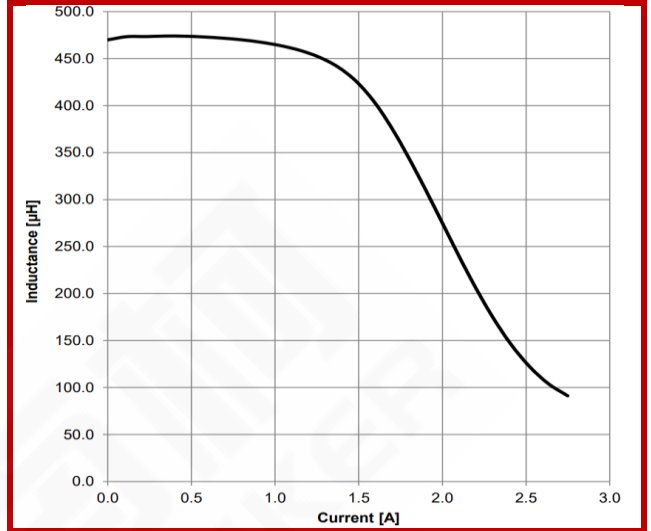
典型电感与电流特性

Typical Inductance vs. Current Characteristics

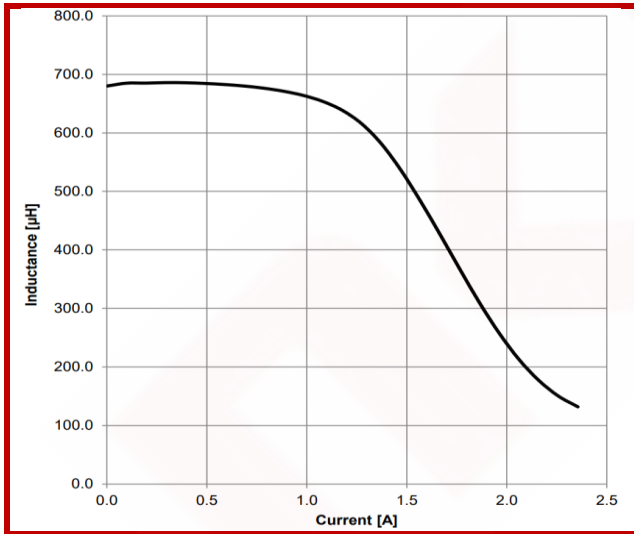
SPI04-1210-331M



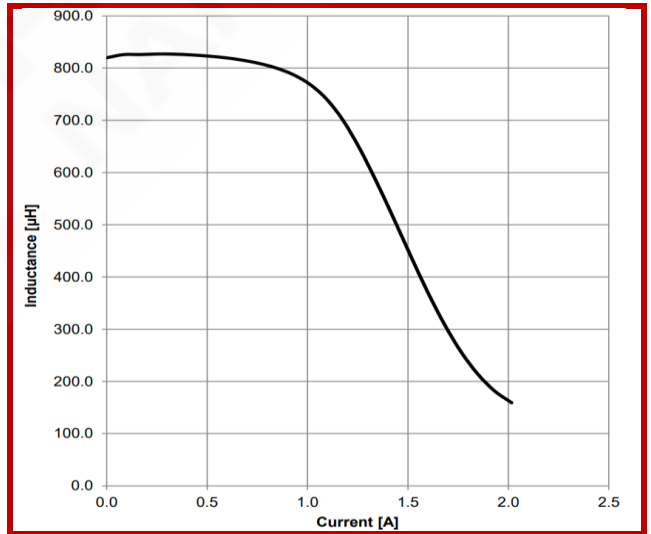
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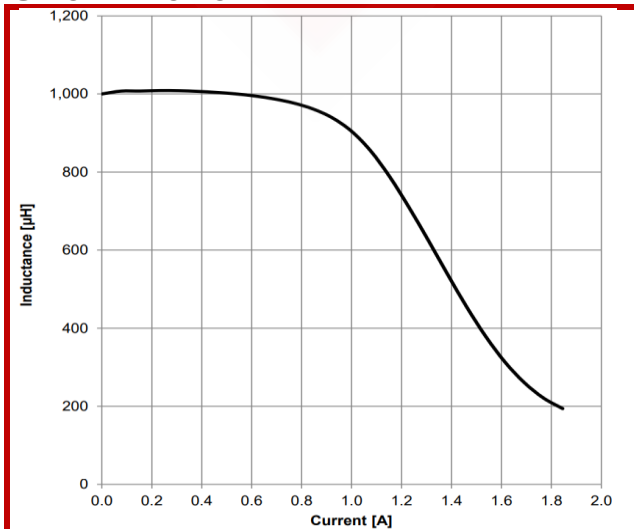
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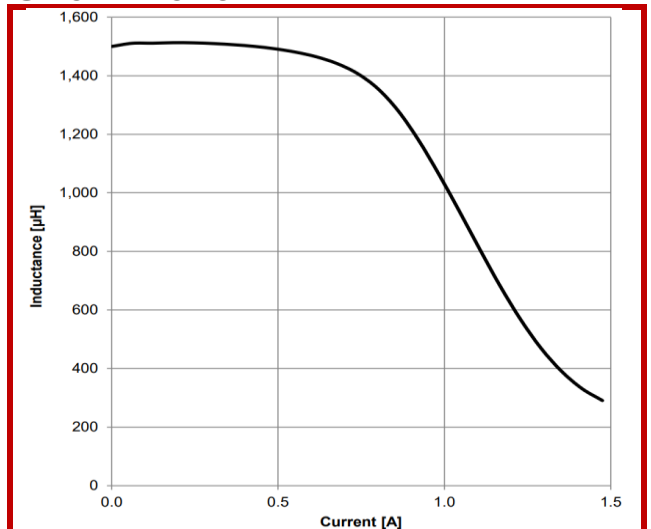
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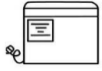


SPI04-1210-102M



SPI04-1210-152M

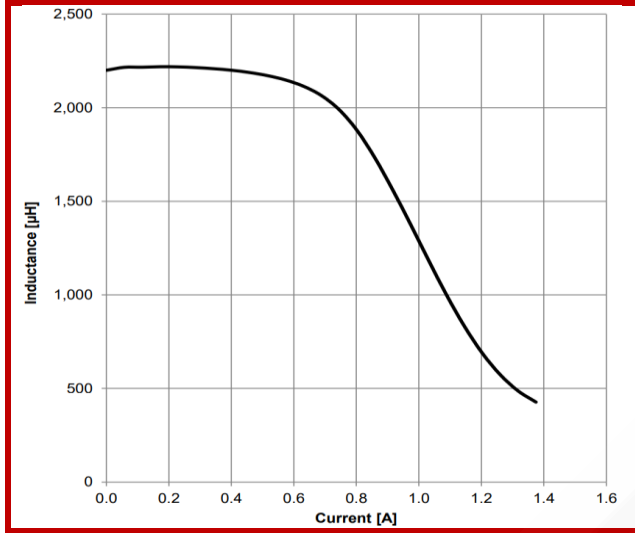




典型电感与电流特性

Typical Inductance vs. Current Characteristics

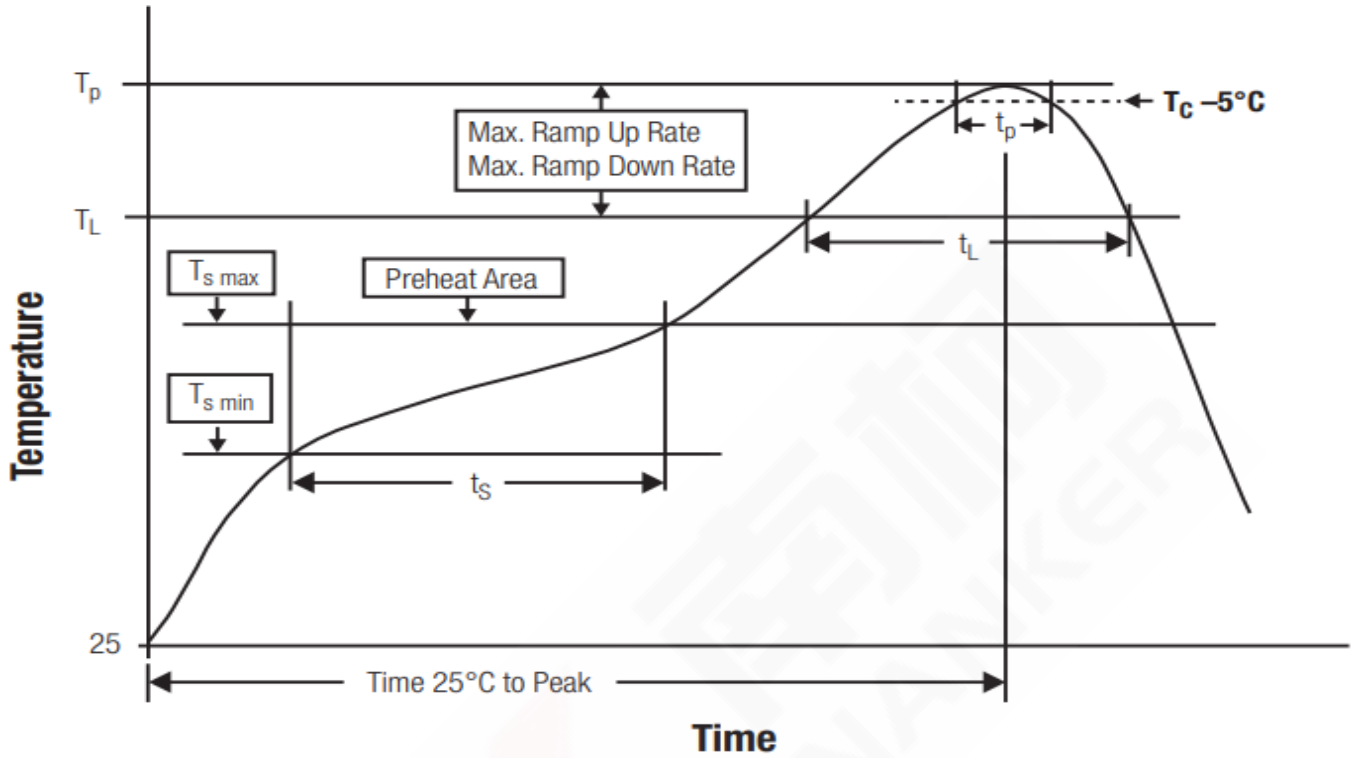
SPI04-1210-222M





回流焊曲线图

Classification Reflow Profile for SMT Components



封装体峰值温度(T_p)分类

Classification Reflow Soldering Profile:

	封装厚度 Package Thickness	封装体积 Package Volume		
		<350 mm ³	350~2,000 mm ³	>2,000 mm ³
无铅装配 PB-Free Assembly	<1.60mm	260°C	260°C	260°C
	1.60~2.50mm	260°C	250°C	245°C
	>2.50mm	260°C	245°C	245°C

- ◆ 回流焊参照标准 IPC/JEDEC J-STD-020D。
Reflow is refer to standard IPC/JEDEC J-STD-020D.