

### 组合式扁线大电流电感

Shielded Power Inductor (High Current SMD)



#### 特性

Characteristics

最低铁芯损耗 (MnZn)

Lowest core losses (MnZn)

高饱和电流高达125 A

High saturation current up to 125 A

磁屏蔽

Magnetically shielded

极低DCR

Extremely low DCR

#### 应用

Application

多相开关调节器

Multiphase switching regulator

CPU/RAM电源

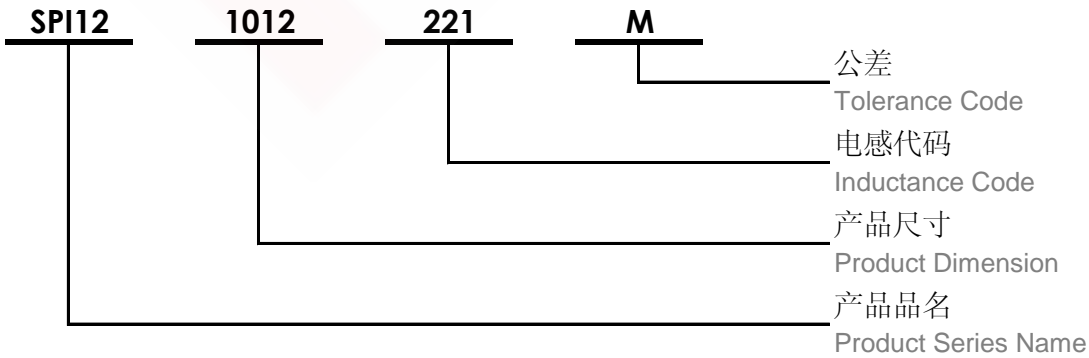
CPU/RAM power supply

PC电源

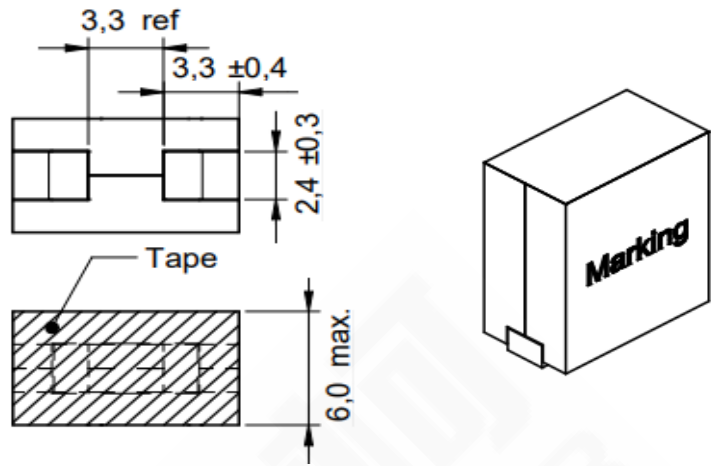
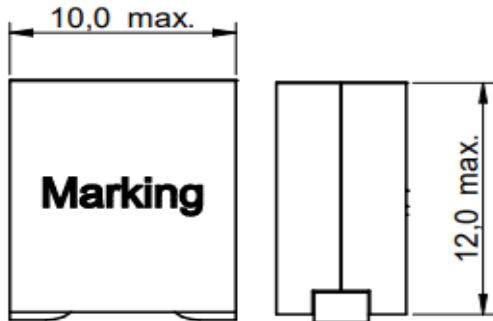
Power PC

#### 产品品名介绍

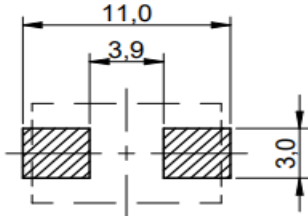
Product Number Structure



### 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 <sub>r</sub> typ 40°C (A)	直流电阻 DC Resistance DCR ±10% (mΩ)	饱和电流 Saturation Current I <sub>sat</sub> typ (A)	卷盘数量 Taping Reel Qty. pcs
SPI12-1012-R07M	0.07 ±20%	37.00	0.125	125.00	300
SPI12-1012-R10M	0.10 ±20%	37.00	0.125	125.00	300
SPI12-1012-R12M	0.12 ±20%	37.00	0.125	125.00	300
SPI12-1012-R15M	0.15 ±20%	37.00	0.125	108.40	300

### 测试状态

Test Condition

☆ 电感测试条件为 100 kHz/ 10 mA

Inductance measure condition at 100 kHz/ 10 mA

☆ 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30%时所加载的实际直流电流值

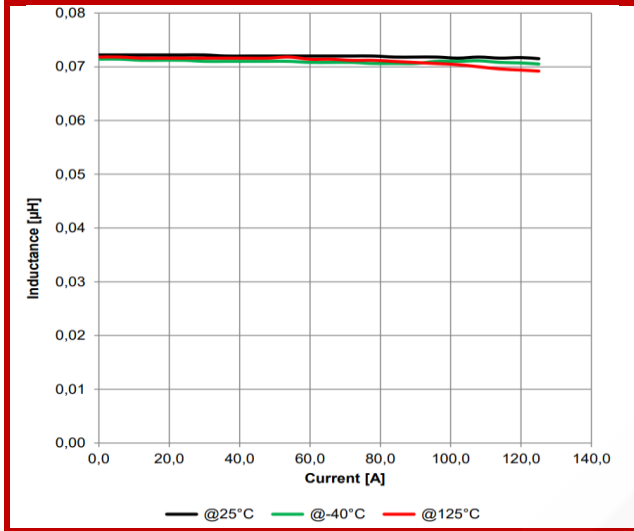
Saturation Current: The actual value of DC current when the inductance drop 30% of initial value



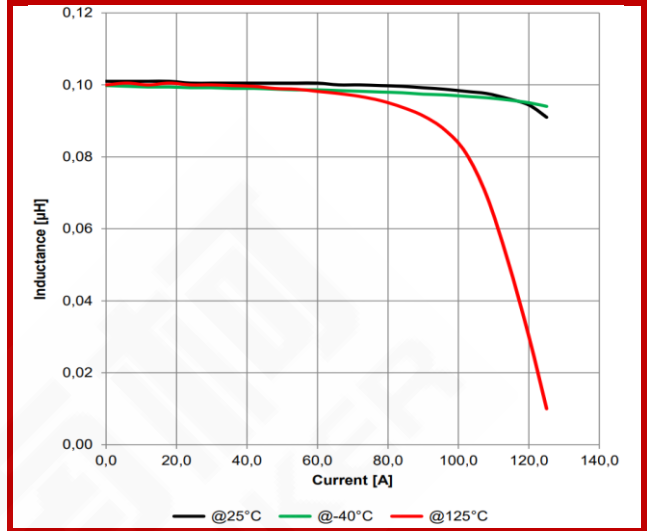
### 典型电感与电流特性

Typical Inductance vs. Current Characteristics

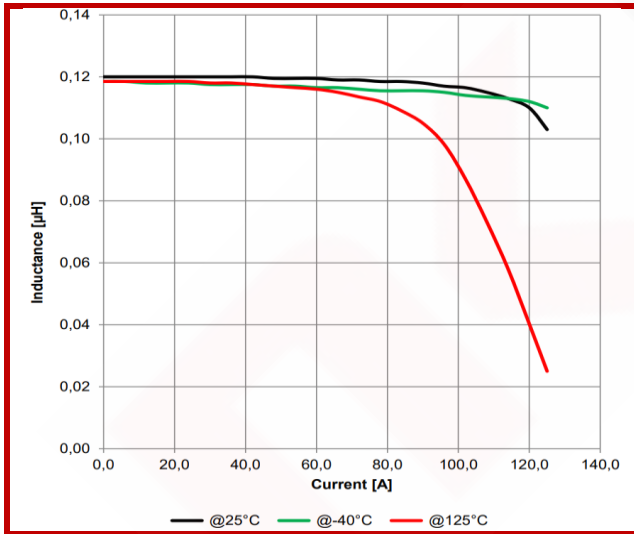
#### SPI12-1012-R07M



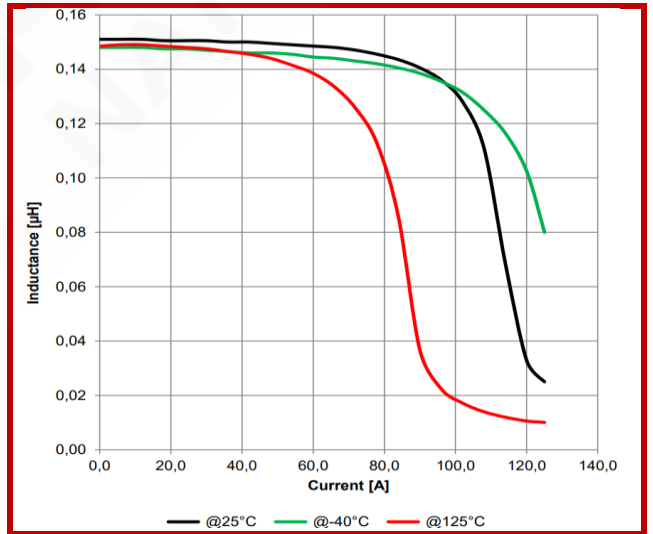
#### SPI12-1012-R10M



#### SPI12-1012-R12M



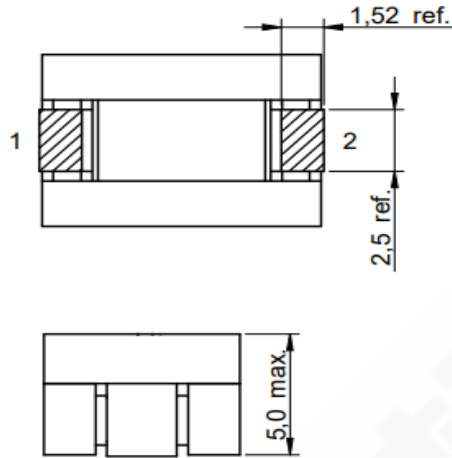
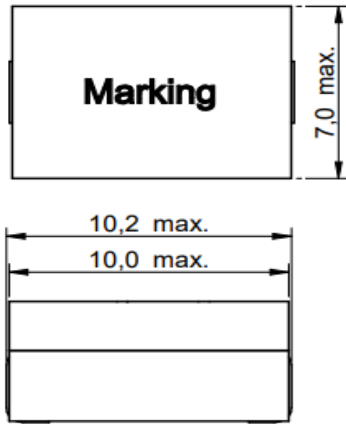
#### SPI12-1012-R15M





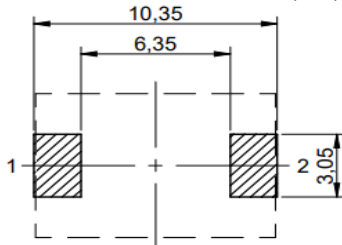
### 尺寸

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 <sub>r</sub> typ 40°C (A)	直流电阻 DC Resistance DCR ±8% (mΩ)	饱和电流 Saturation Current I <sub>sat</sub> typ (A)	卷盘数量 Taping Reel Qty. pcs
SPI12-1005-R12M	0.12 ±20%	31.00	0.325	59.80	1,000
SPI12-1005-R15M	0.155 ±20%	31.00	0.325	51.50	1,000
SPI12-1005-R22M	0.22 ±20%	31.00	0.325	34.50	1,000

### 测试状态

Test Condition

☆ 电感测试条件为 100 kHz/ 10 mA

Inductance measure condition at 100 kHz/ 10 mA

☆ 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30%时所加载的实际直流电流值

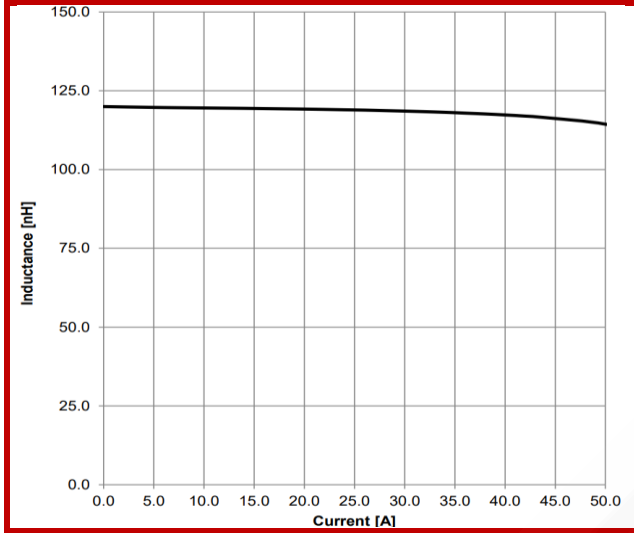
Saturation Current: The actual value of DC current when the inductance drop 30% of initial value



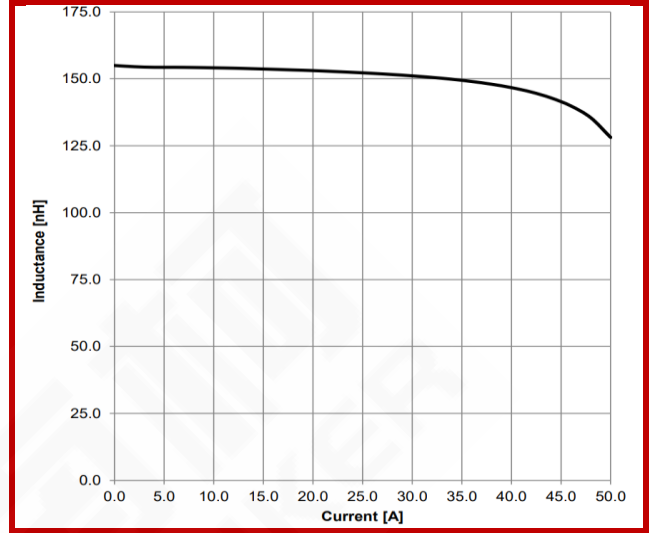
### 典型电感与电流特性

Typical Inductance vs. Current Characteristics

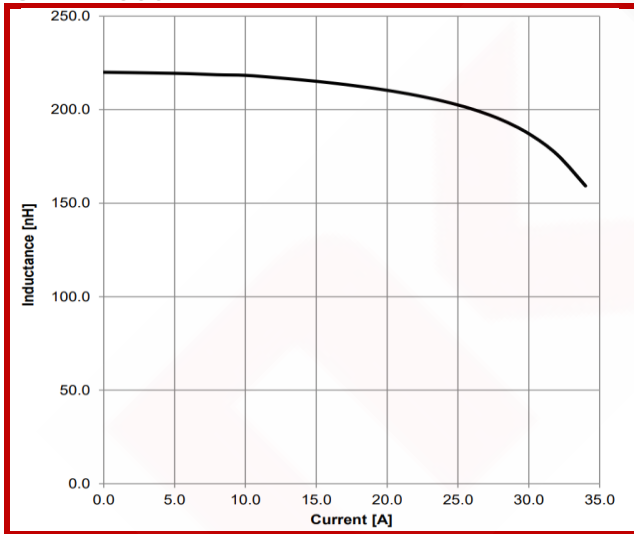
#### SPI12-1005-R12M

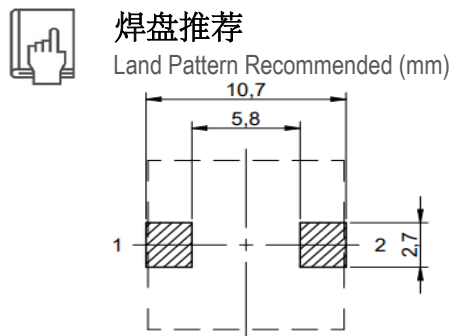
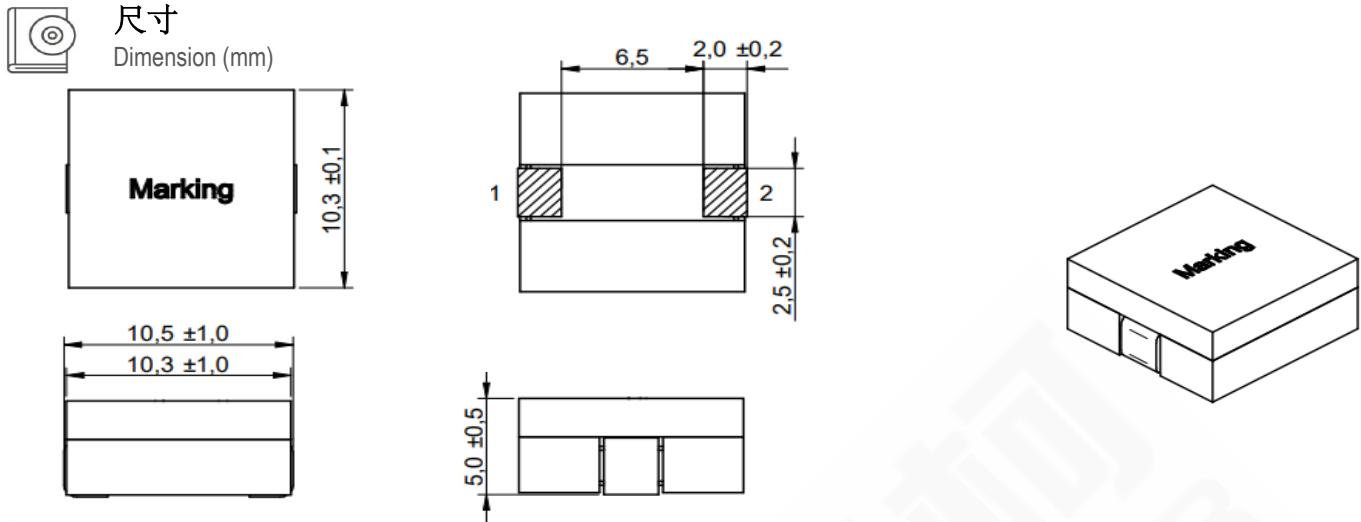


#### SPI12-1005-R15M



#### SPI12-1005-R22M





**电性特性**  
Electrical Properties

型号 Part No.	电感 Inductance μH	温升电流 Rated Current I <sub>R</sub> typ 40°C (A)	直流电阻 DC Resistance DCR ±8% (mΩ)	饱和电流 Saturation Current I <sub>sat</sub> typ (A)	卷盘数量 Taping Reel Qty. pcs
SPI12-1105-R20M	0.20 ±20%	25.00	0.260	36.10	700
SPI12-1105-R25M	0.25 ±20%	25.00	0.260	32.30	700
SPI12-1105-R30M	0.30 ±20%	25.00	0.260	25.00	700

**测试状态**

Test Condition

☆ 电感测试条件为 100 kHz/ 10 mA

Inductance measure condition at 100 kHz/ 10 mA

☆ 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30%时所加载的实际直流电流值

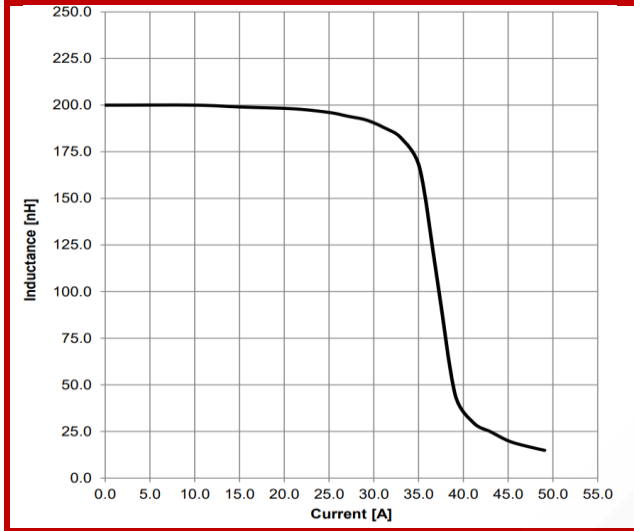
Saturation Current: The actual value of DC current when the inductance drop 30% of initial value



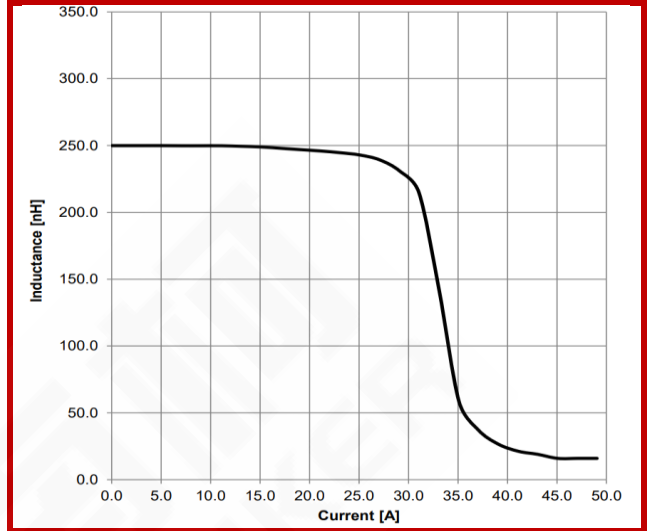
### 典型电感与电流特性

Typical Inductance vs. Current Characteristics

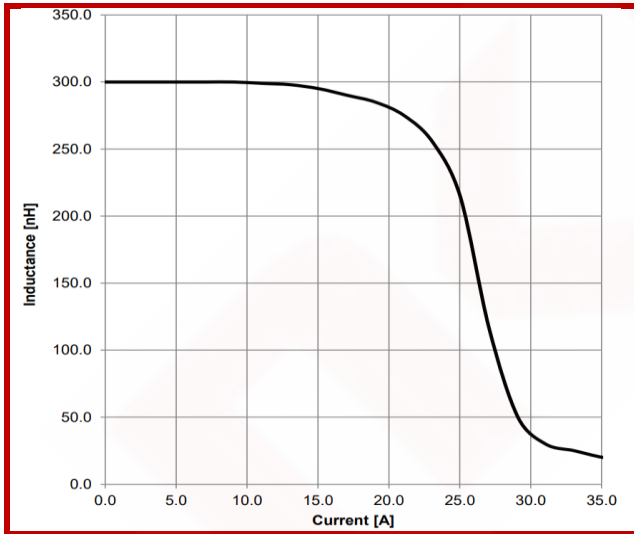
#### SPI12-1105-R20M



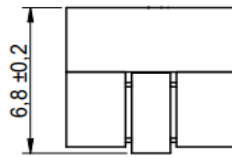
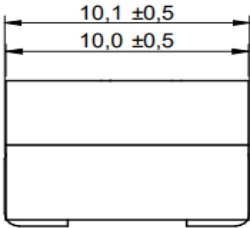
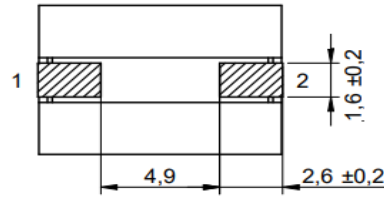
#### SPI12-1105-R25M



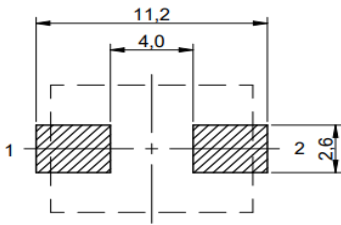
#### SPI12-1105-R30M



### 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 <sub>R</sub> typ 40°C (A)	直流电阻 DC Resistance DCR ±8% (mΩ)	饱和电流 Saturation Current I <sub>sat</sub> typ (A)	卷盘数量 Taping Reel Qty. pcs
SPI12-1007-R15M	0.15 ±20%	25.00	0.370	60.70	640
SPI12-1007-R20M	0.20 ±20%	25.00	0.370	50.40	640
SPI12-1007-R25M	0.25 ±20%	25.00	0.370	46.50	640
SPI12-1007-R33M	0.33 ±20%	25.00	0.370	32.00	640
SPI12-1007-R40M	0.40 ±20%	25.00	0.370	28.30	640

### 测试状态

Test Condition

☆ 电感测试条件为 100 kHz/ 10 mA

Inductance measure condition at 100 kHz/ 10 mA

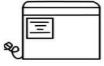
☆ 工作温度: -40°C ~ +125°C

Operating Temperature: -40°C ~ +125°C

☆ 饱和电流: 电感值下降其初始值的30%时所加载的实际直流电流值

Saturation Current: The actual value of DC current when the inductance drop 30% of initial value

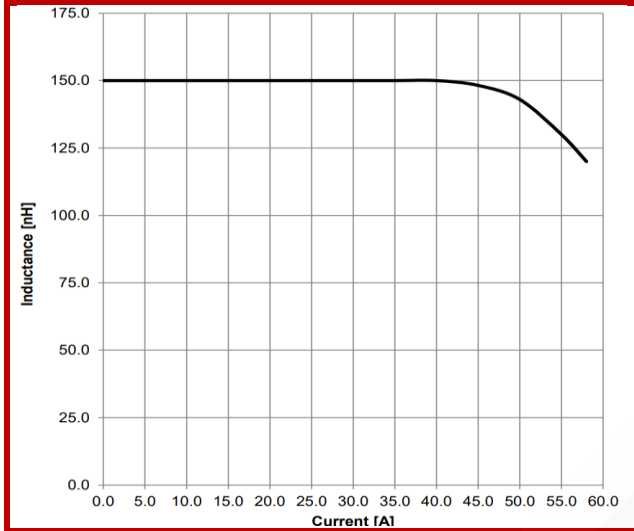




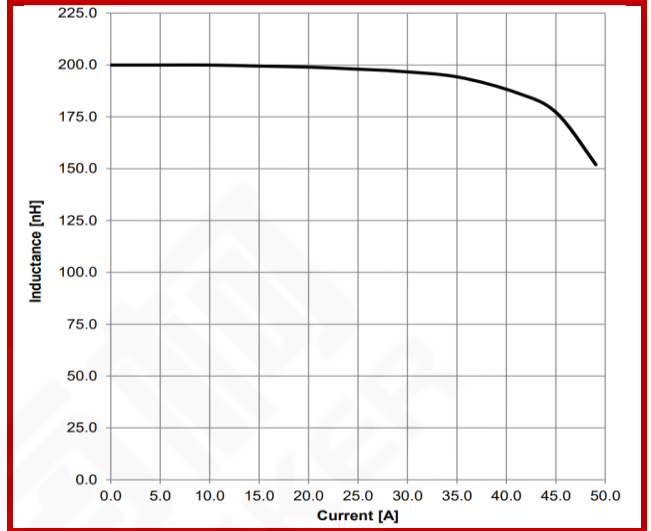
### 典型电感与电流特性

Typical Inductance vs. Current Characteristics

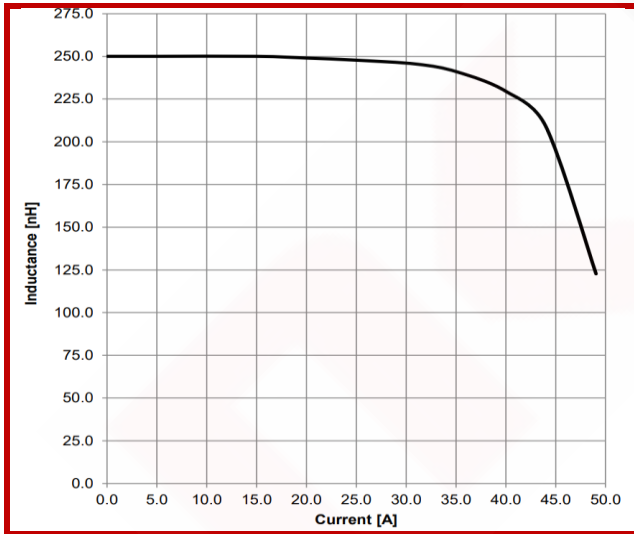
#### SPI12-1007-R15M



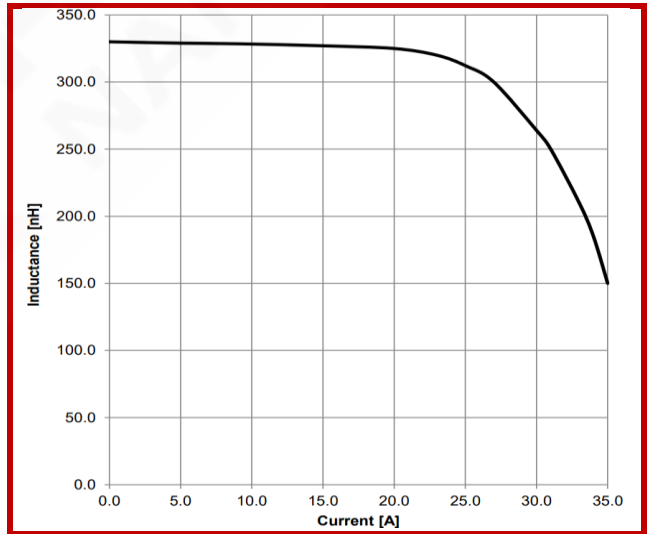
#### SPI12-1007-R20M



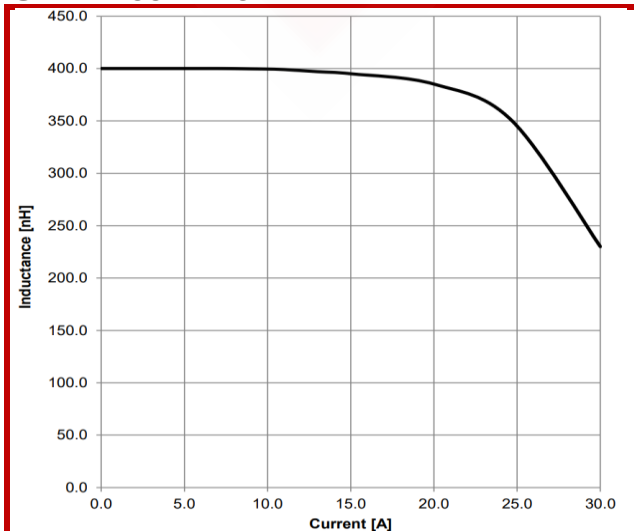
#### SPI12-1007-R25M

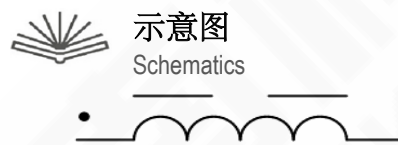
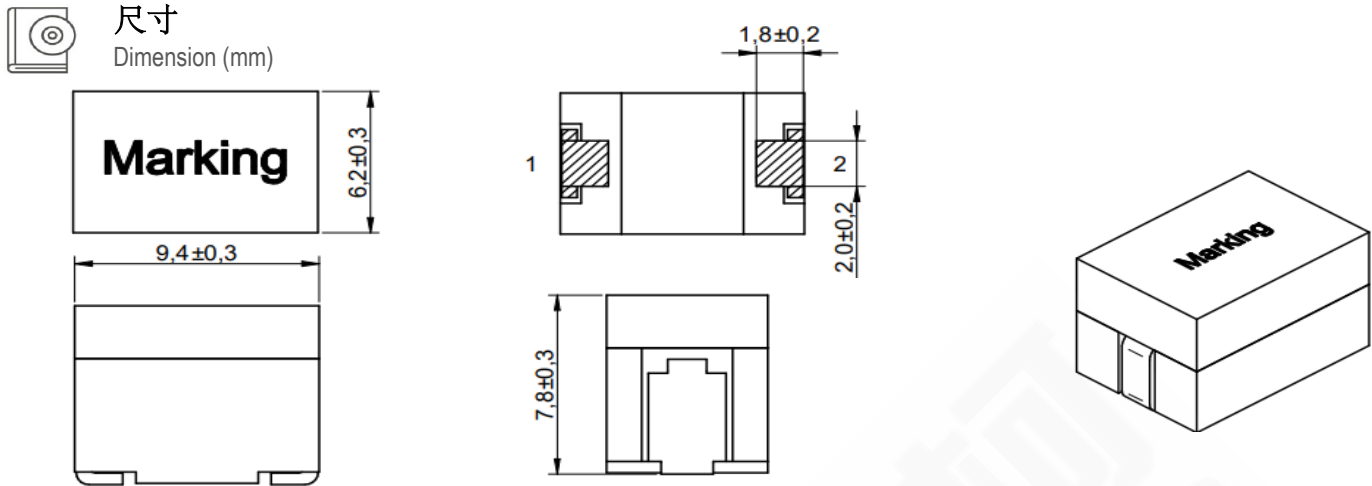


#### SPI12-1007-R33M



#### SPI12-1007-R40M





型号 Part No.	电感 Inductance μH	温升电流 Rated Current I <sub>r</sub> typ 40°C (A)	直流电阻 DC Resistance DCR ±5% (mΩ)	饱和电流 Saturation Current I <sub>sat</sub> typ (A)	卷盘数量 Taping Reel Qty. pcs
SPI12-0908-R10K	0.10 ±10%	38.00	0.29	104.40	600
SPI12-0908-R12K	0.12 ±10%	38.00	0.29	88.50	600
SPI12-0908-R15K	0.15 ±10%	38.00	0.29	75.00	600
SPI12-0908-R18K	0.18 ±10%	38.00	0.29	63.40	600
SPI12-0908-R22K	0.22 ±10%	38.00	0.29	48.40	600
SPI12-0908-R30K	0.30 ±10%	38.00	0.29	34.60	600
SPI12-0908-R40K	0.40 ±10%	38.00	0.29	24.10	600

### 测试状态

Test Condition

☆ 电感测试条件为 100 kHz/ 10 mA

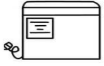
Inductance measure condition at 100 kHz/ 10 mA

☆ 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30%时所加载的实际直流电流值

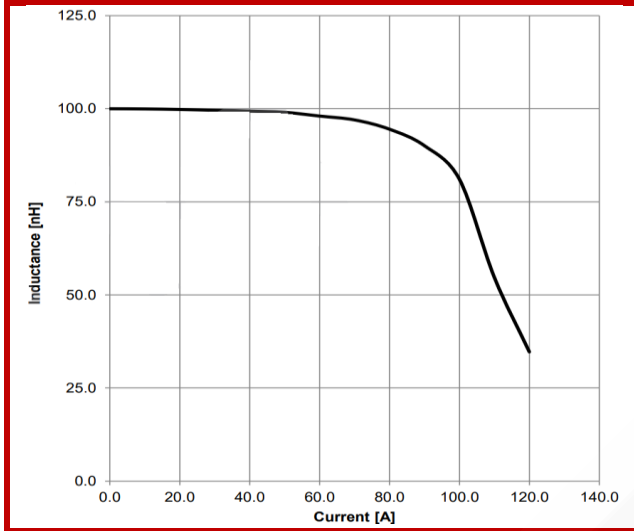
Saturation Current: The actual value of DC current when the inductance drop 30% of initial value



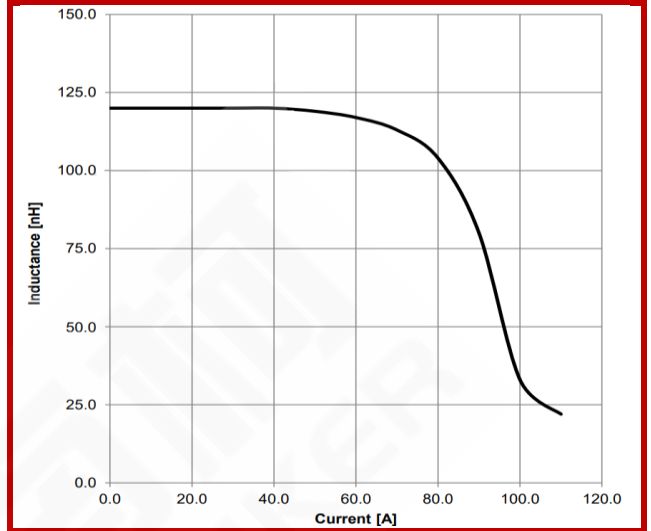
### 典型电感与电流特性

Typical Inductance vs. Current Characteristics

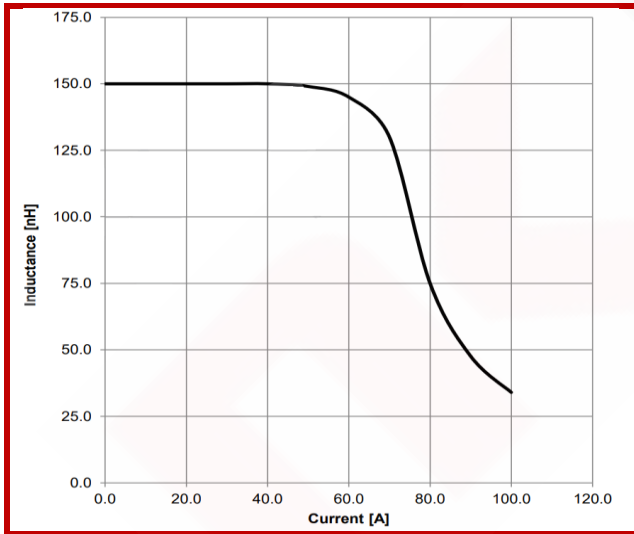
#### SPI12-0908-R10K



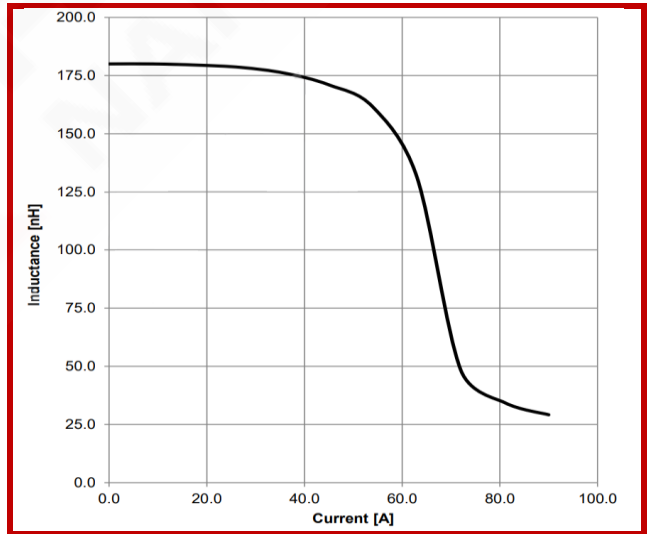
#### SPI12-0908-R12K



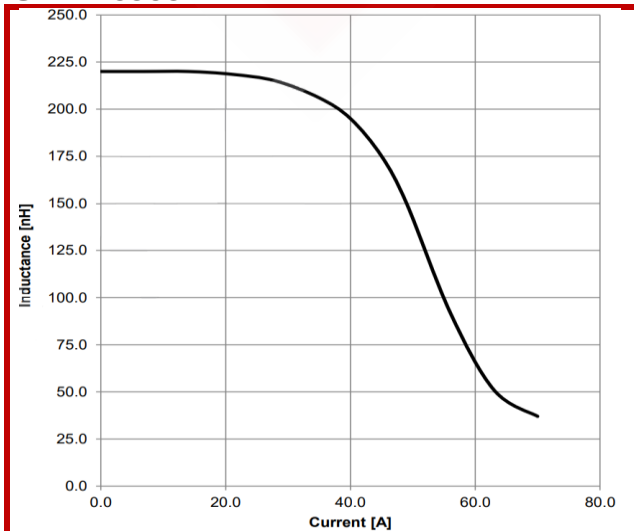
#### SPI12-0908-R15K



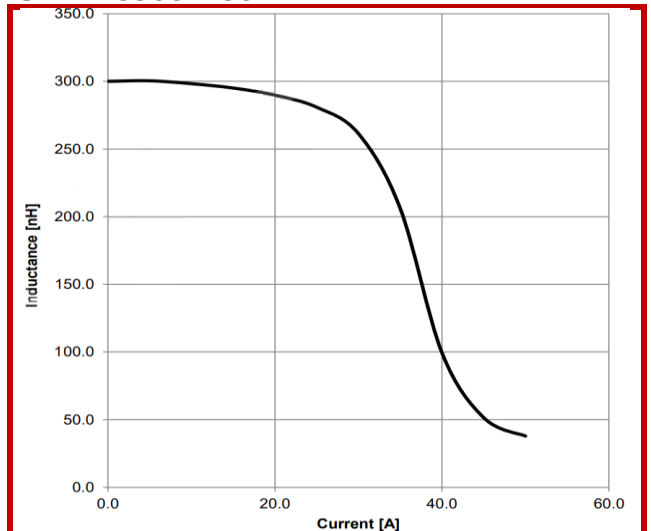
#### SPI12-0908-R18K



#### SPI12-0908-R22K



#### SPI12-0908-R30K

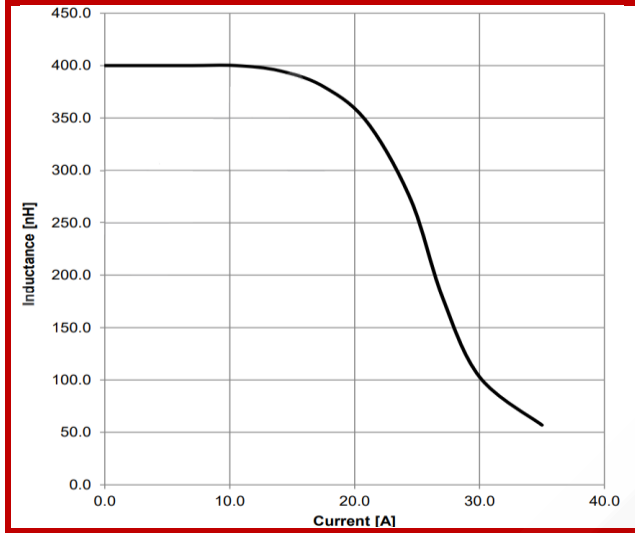


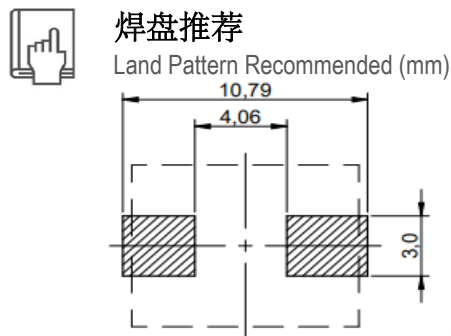
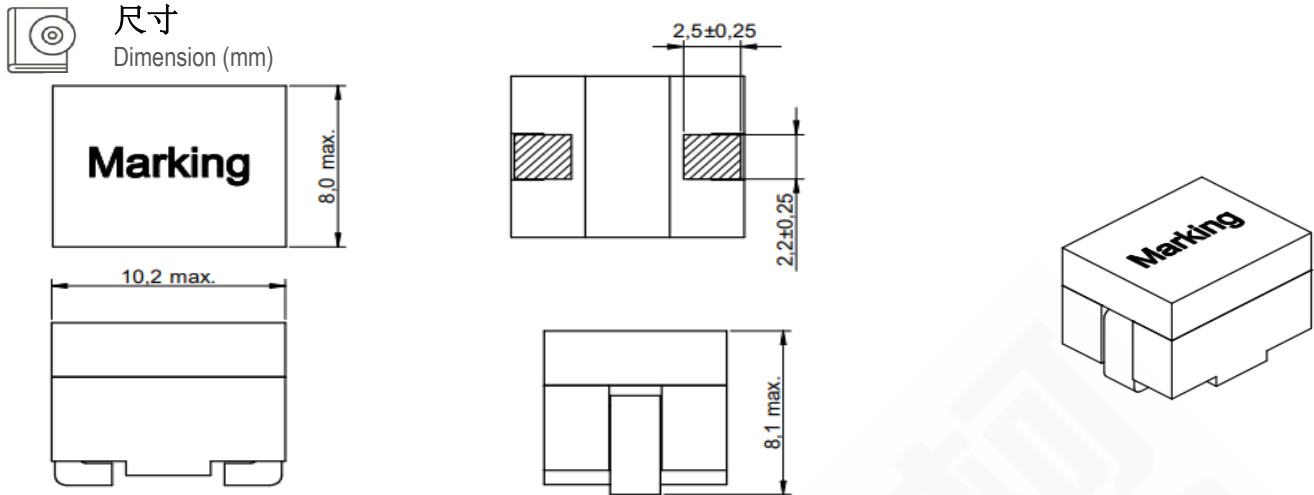


### 典型电感与电流特性

Typical Inductance vs. Current Characteristics

#### SPI12-0908-R40K





**电性特性**  
Electrical Properties

型号 Part No.	电感 Inductance μH	温升电流 Rated Current I <sub>r</sub> typ 40°C (A)	直流电阻 DC Resistance DCR ±5% (mΩ)	饱和电流 Saturation Current I <sub>sat</sub> typ (A)	卷盘数量 Taping Reel Qty. pcs
SPI12-1008-R10K	0.10 ±10%	60.00	0.180	114.10	550
SPI12-1008-R12K	0.12 ±10%	60.00	0.180	100.00	550
SPI12-1008-R15K	0.15 ±10%	60.00	0.180	87.10	550
SPI12-1008-R17K	0.17 ±10%	60.00	0.180	69.30	550
SPI12-1008-R18K	0.18 ±10%	60.00	0.180	66.40	550
SPI12-1008-R22K	0.22 ±10%	60.00	0.180	59.30	550

### 测试状态

Test Condition

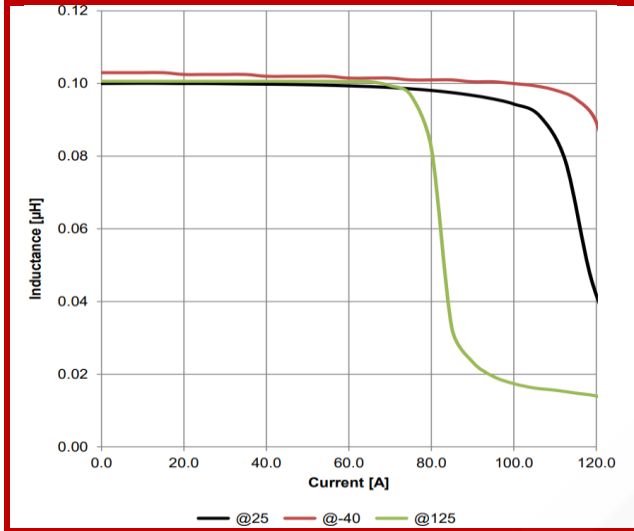
- ☆ 电感测试条件为 100 kHz/ 10 mA  
Inductance measure condition at 100 kHz/ 10 mA
- ☆ 工作温度: -40°C ~ +125°C  
Operating Temperature: -40°C ~ +125°C
- ☆ 饱和电流: 电感值下降其初始值的30%时所加载的实际直流电流值  
Saturation Current: The actual value of DC current when the inductance drop 30% of initial value



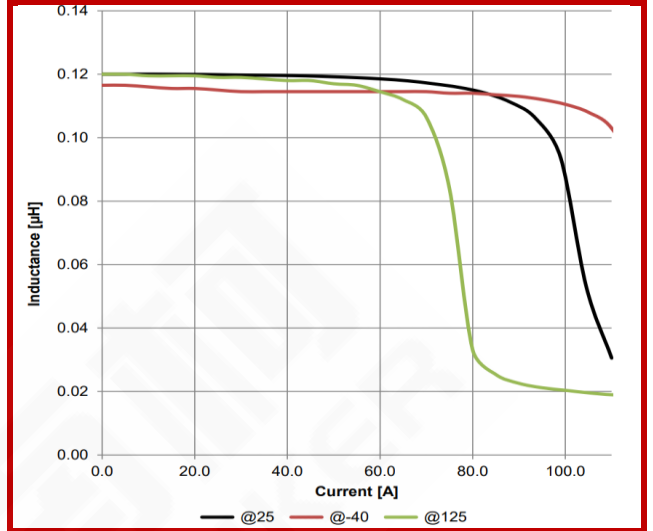
### 典型电感与电流特性

Typical Inductance vs. Current Characteristics

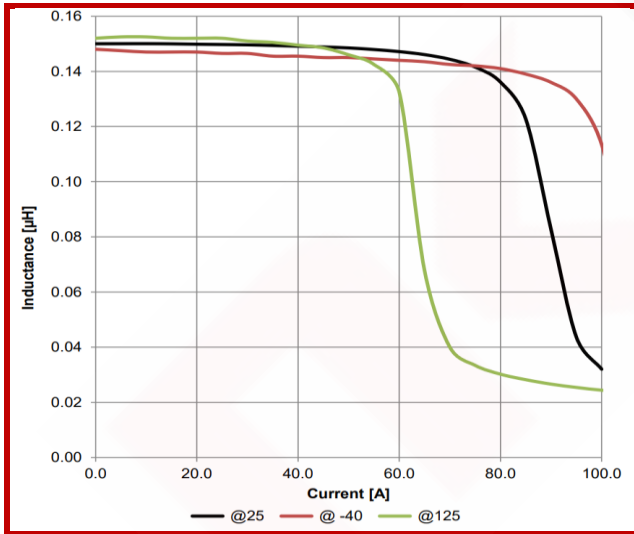
#### SPI12-1008-R10K



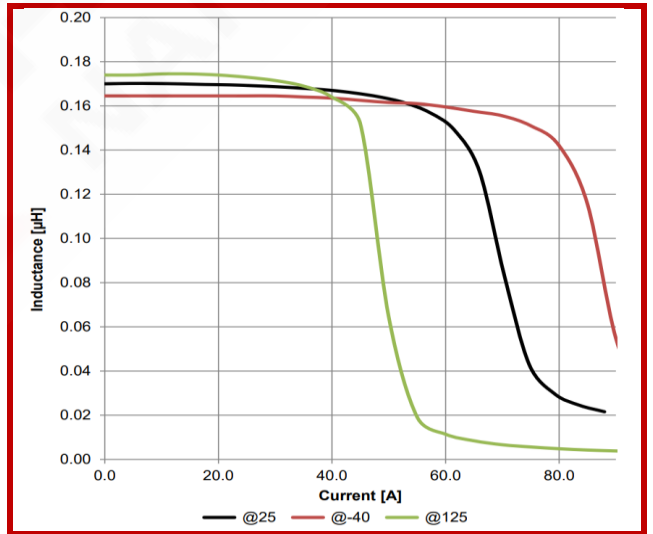
#### SPI12-1008-R12K



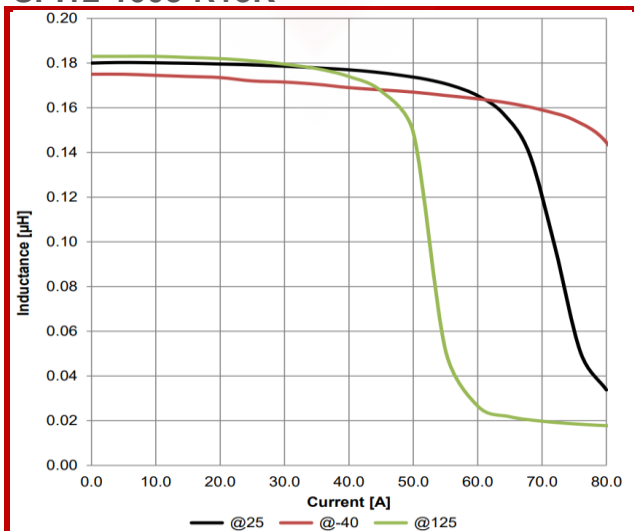
#### SPI12-1008-R15K



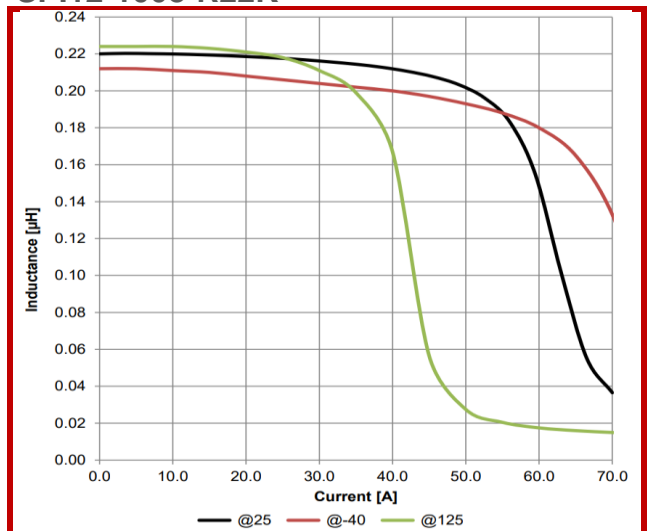
#### SPI12-1008-R17K



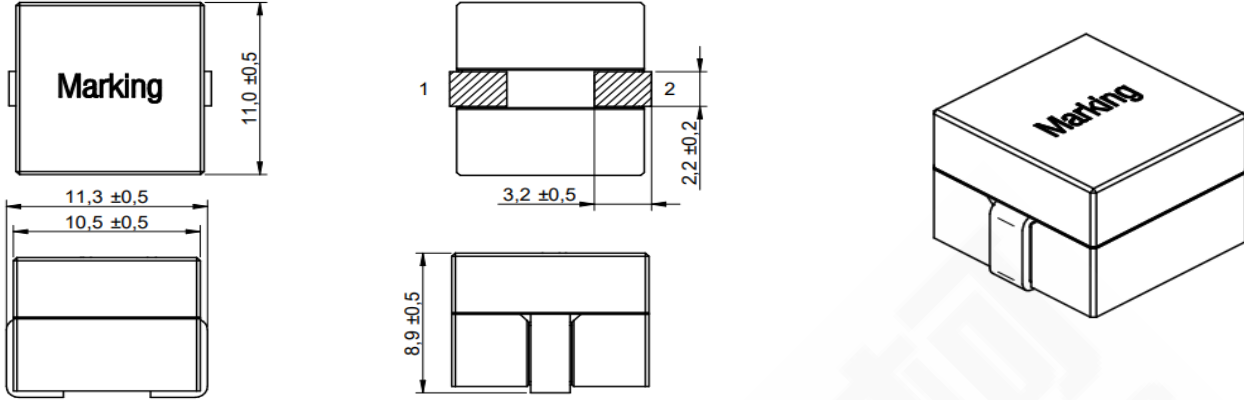
#### SPI12-1008-R18K



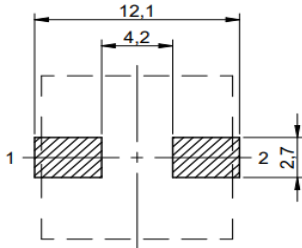
#### SPI12-1008-R22K



### 尺寸 Dimension (mm)



### 焊盘推荐 Land Pattern Recommended (mm)



### 示意图 Schematics



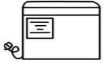
### 电性特性 Electrical Properties

型号 Part No.	电感 Inductance μH	温升电流 Rated Current I <sub>r</sub> typ 40°C (A)	直流电阻 DC Resistance DCR ±8% (mΩ)	饱和电流 Saturation Current I <sub>sat</sub> typ (A)	卷盘数量 Taping Reel Qty. pcs
SPI12-1109-R25M	0.25 ±20%	38.00	0.320	64.70	300
SPI12-1109-R33M	0.33 ±20%	38.00	0.320	48.90	300
SPI12-1109-R47M	0.47 ±20%	38.00	0.320	36.10	300

### 测试状态

#### Test Condition

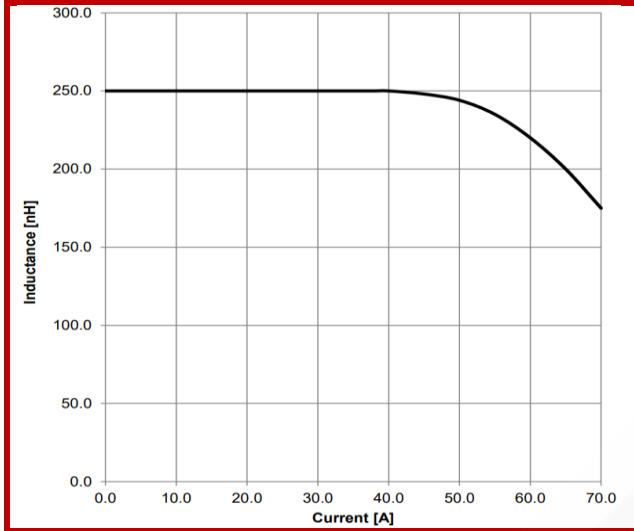
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- ☆ 饱和电流: 电感值下降其初始值的30%时所加载的实际直流电流值  
Saturation Current: The actual value of DC current when the inductance drop 30% of initial value



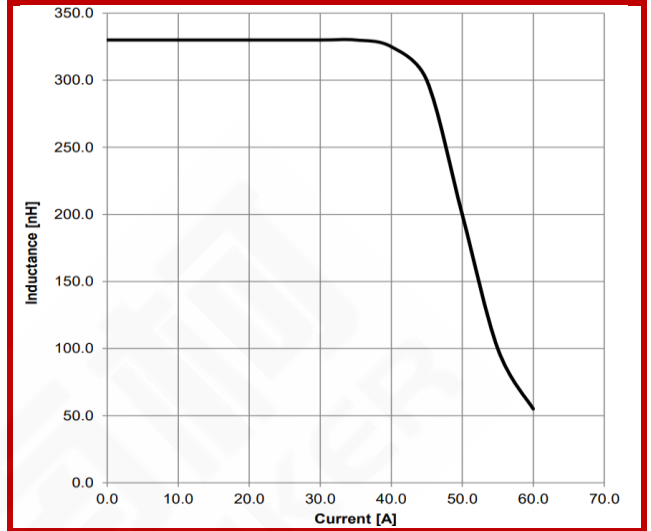
### 典型电感与电流特性

Typical Inductance vs. Current Characteristics

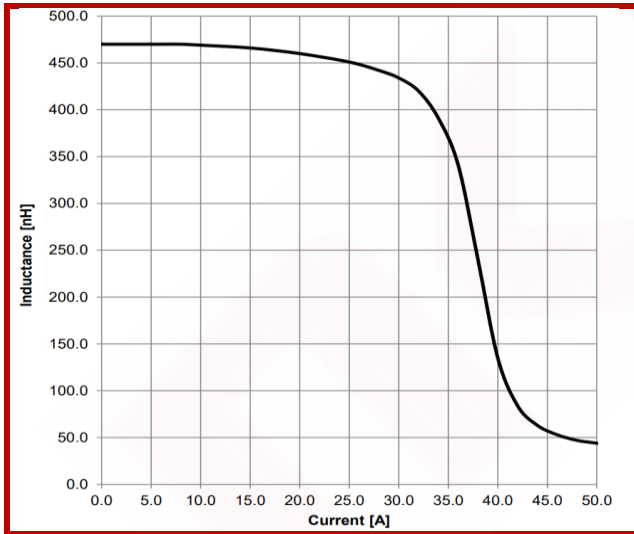
#### SPI12-1109-R25M



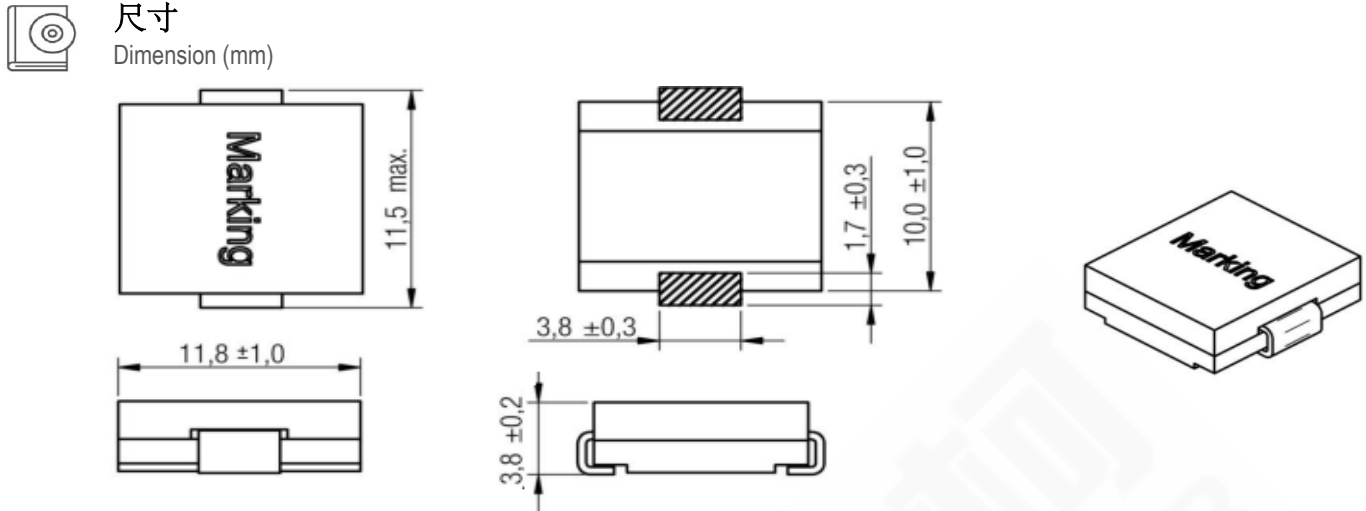
#### SPI12-1109-R33M



#### SPI12-1109-R47M







**电性特性**  
Electrical Properties

型号 Part No.	电感 Inductance μH	温升电流 Rated Current I <sub>R</sub> typ 40°C (A)	直流电阻 DC Resistance DCR ±8% (mΩ)	饱和电流 Saturation Current I <sub>sat</sub> typ (A)	卷盘数量 Taping Reel Qty. pcs
SPI12-1204-R10M	0.10 ±20%	24.00	0.170	52.00	700
SPI12-1204-R16M	0.16 ±20%	24.00	0.170	32.00	700
SPI12-1204-R22M	0.22 ±20%	24.00	0.170	23.00	700

**测试状态**

Test Condition

☆ 电感测试条件为 100 kHz/ 10 mA

Inductance measure condition at 100 kHz/ 10 mA

☆ 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20%时所加载的实际直流电流值

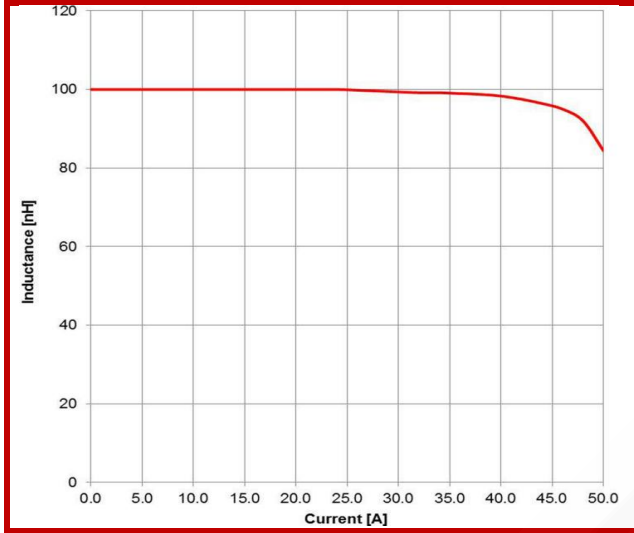
Saturation Current: The actual value of DC current when the inductance drop 20% of initial value



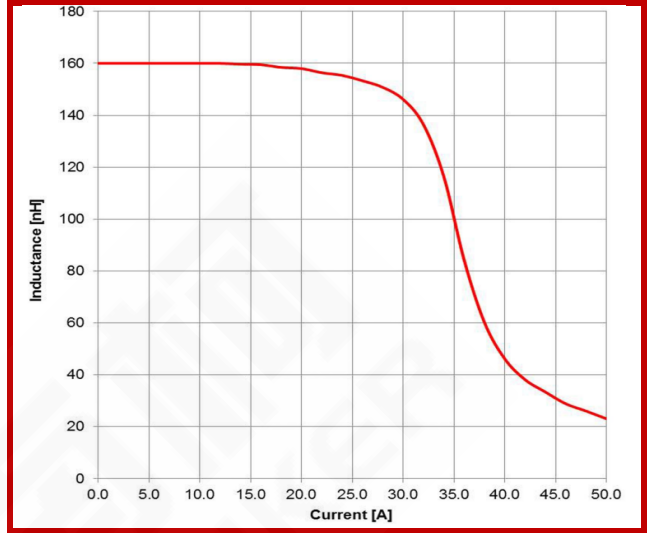
### 典型电感与电流特性

Typical Inductance vs. Current Characteristics

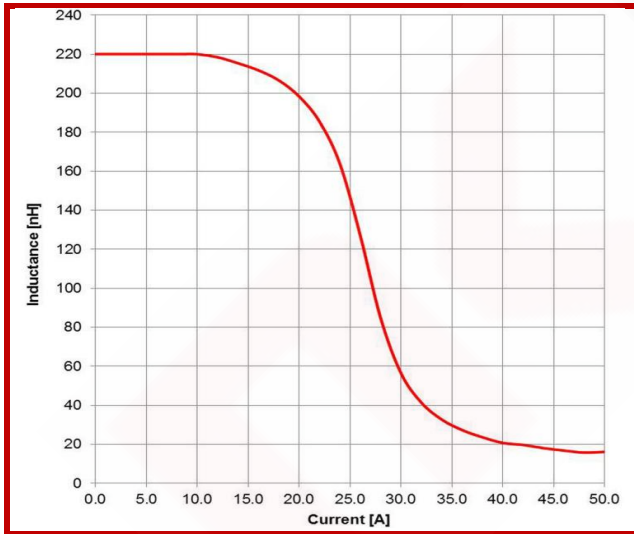
#### SPI12-1204-R10M

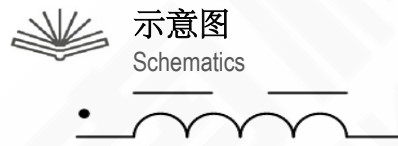
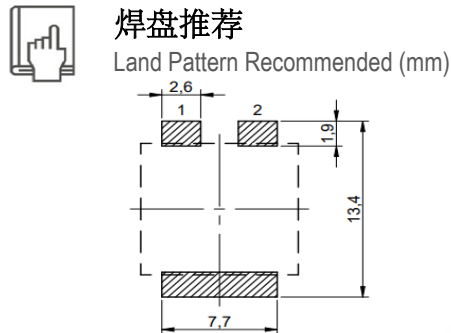
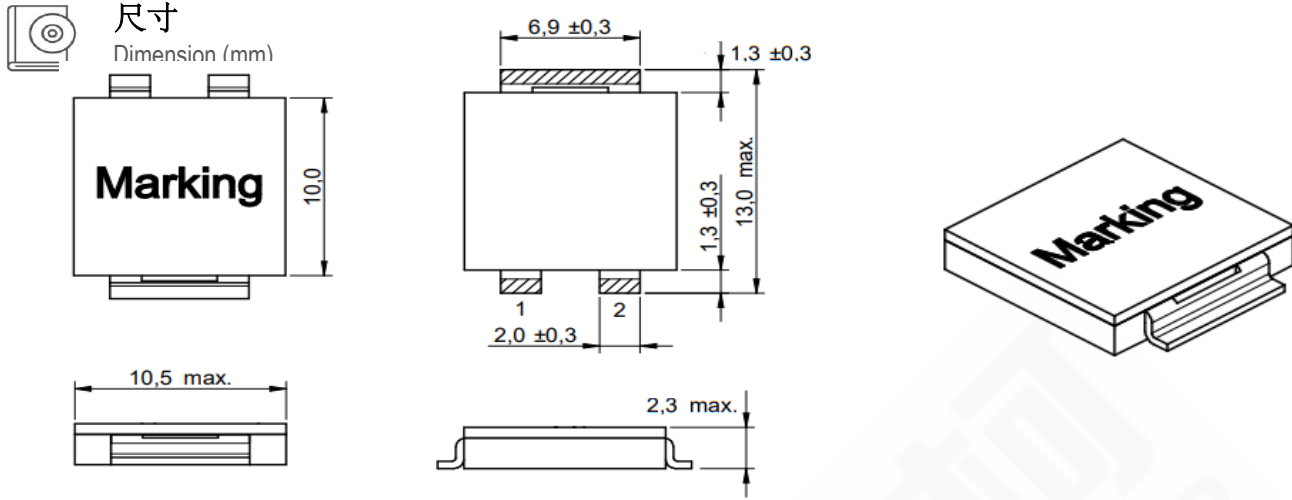


#### SPI12-1204-R16M



#### SPI12-1204-R22M





**电性特性**  
Electrical Properties

型号 Part No.	电感 Inductance μH	温升电流 Rated Current I <sub>r</sub> typ 40°C (A)	直流电阻 DC Resistance DCR ±8% (mΩ)	饱和电流 Saturation Current I <sub>sat</sub> typ (A)	卷盘数量 Taping Reel Qty. pcs
SPI12-1002-R12M	0.12 ±20%	26.00	0.700	40.10	600
SPI12-1002-R16M	0.16 ±20%	26.00	0.700	28.90	600

**测试状态**

Test Condition

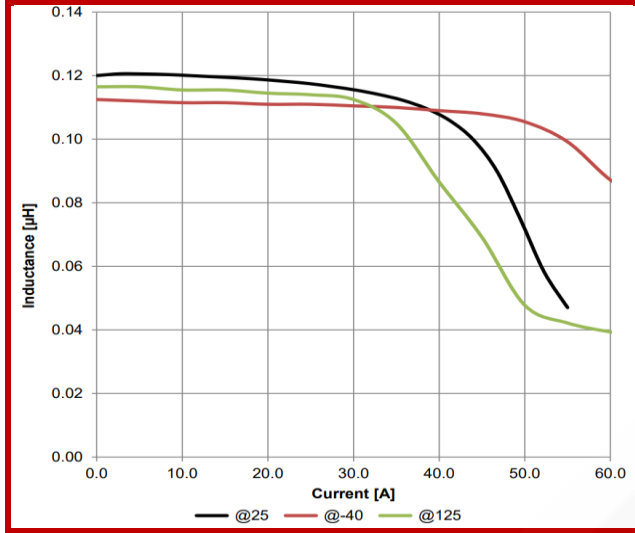
- ☆ 电感测试条件为 100 kHz/ 10 mA  
Inductance measure condition at 100 kHz/ 10 mA
- ☆ 工作温度: -40°C ~ +125°C  
Operating Temperature: -40°C ~ +125°C
- ☆ 饱和电流: 电感值下降其初始值的30%时所加载的实际直流电流值  
Saturation Current: The actual value of DC current when the inductance drop 30% of initial value



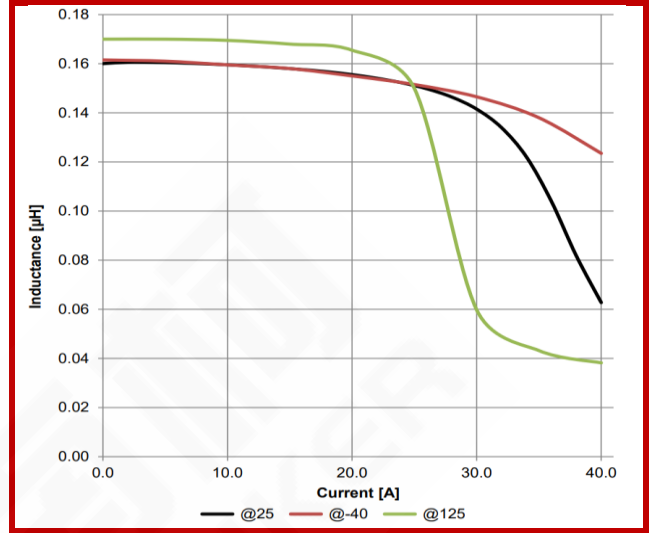
### 典型电感与电流特性

Typical Inductance vs. Current Characteristics

#### SPI12-1002-R12M



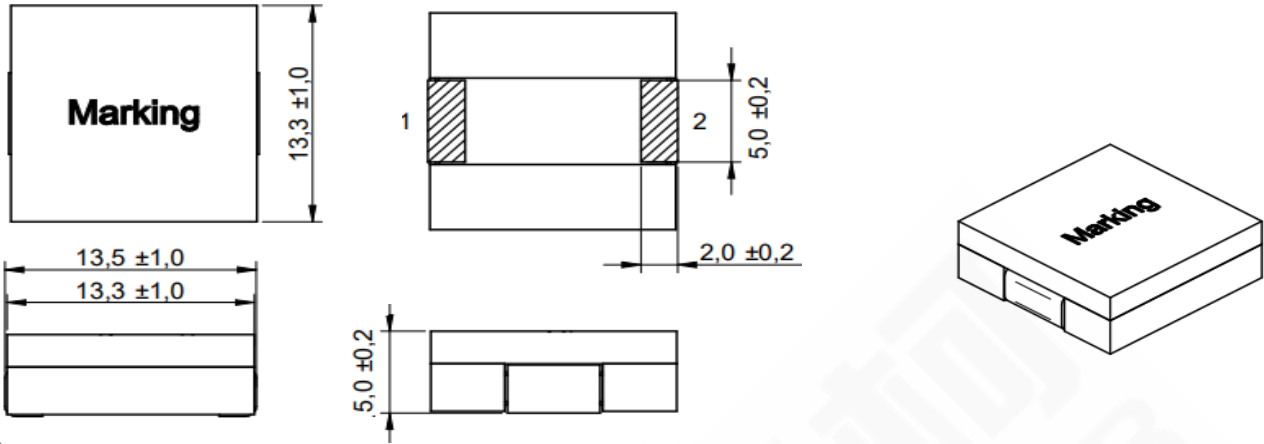
#### SPI12-1002-R16M





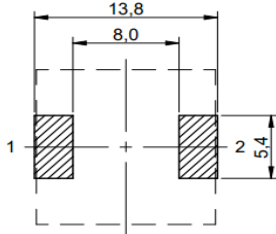
### 尺寸

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 $\mu\text{H}$	温升电流 Rated Current $I_R$ typ 40°C (A)	直流电阻 DC Resistance DCR $\pm 8\%$ (m $\Omega$ )	饱和电流 Saturation Current $I_{sat}$ typ (A)	卷盘数量 Taping Reel Qty. pcs
SPI12-1305-R22M	0.22 $\pm 20\%$	26.00	0.155	42.00	500
SPI12-1305-R33M	0.33 $\pm 20\%$	26.00	0.155	27.70	500
SPI12-1305-R40M	0.40 $\pm 20\%$	26.00	0.155	21.70	500

### 测试状态

Test Condition

☆ 电感测试条件为 100 kHz/ 10 mA

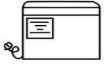
Inductance measure condition at 100 kHz/ 10 mA

☆ 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30%时所加载的实际直流电流值

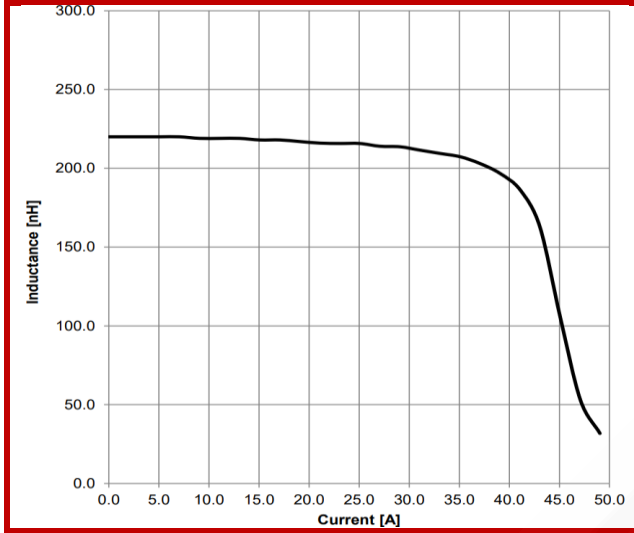
Saturation Current: The actual value of DC current when the inductance drop 30% of initial value



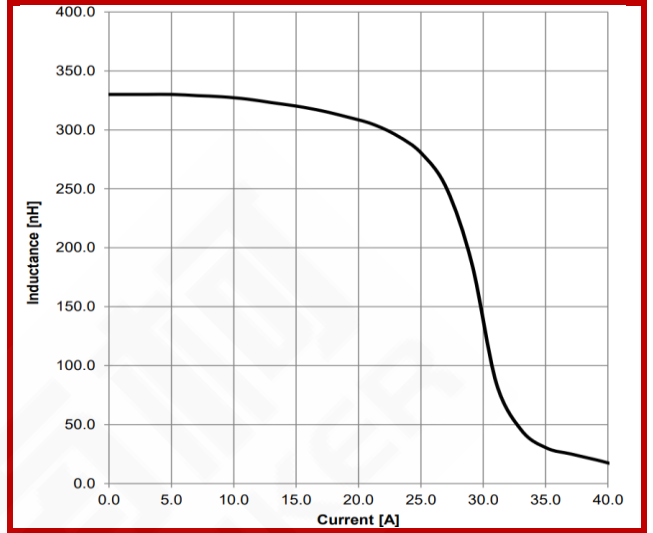
### 典型电感与电流特性

Typical Inductance vs. Current Characteristics

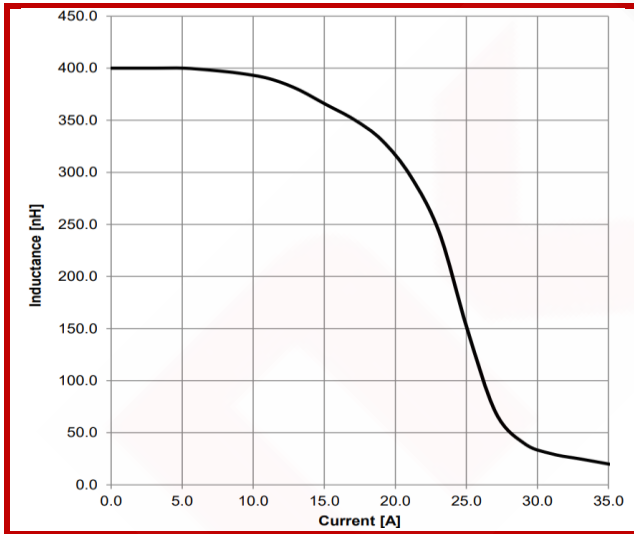
#### SPI12-1305-R22M

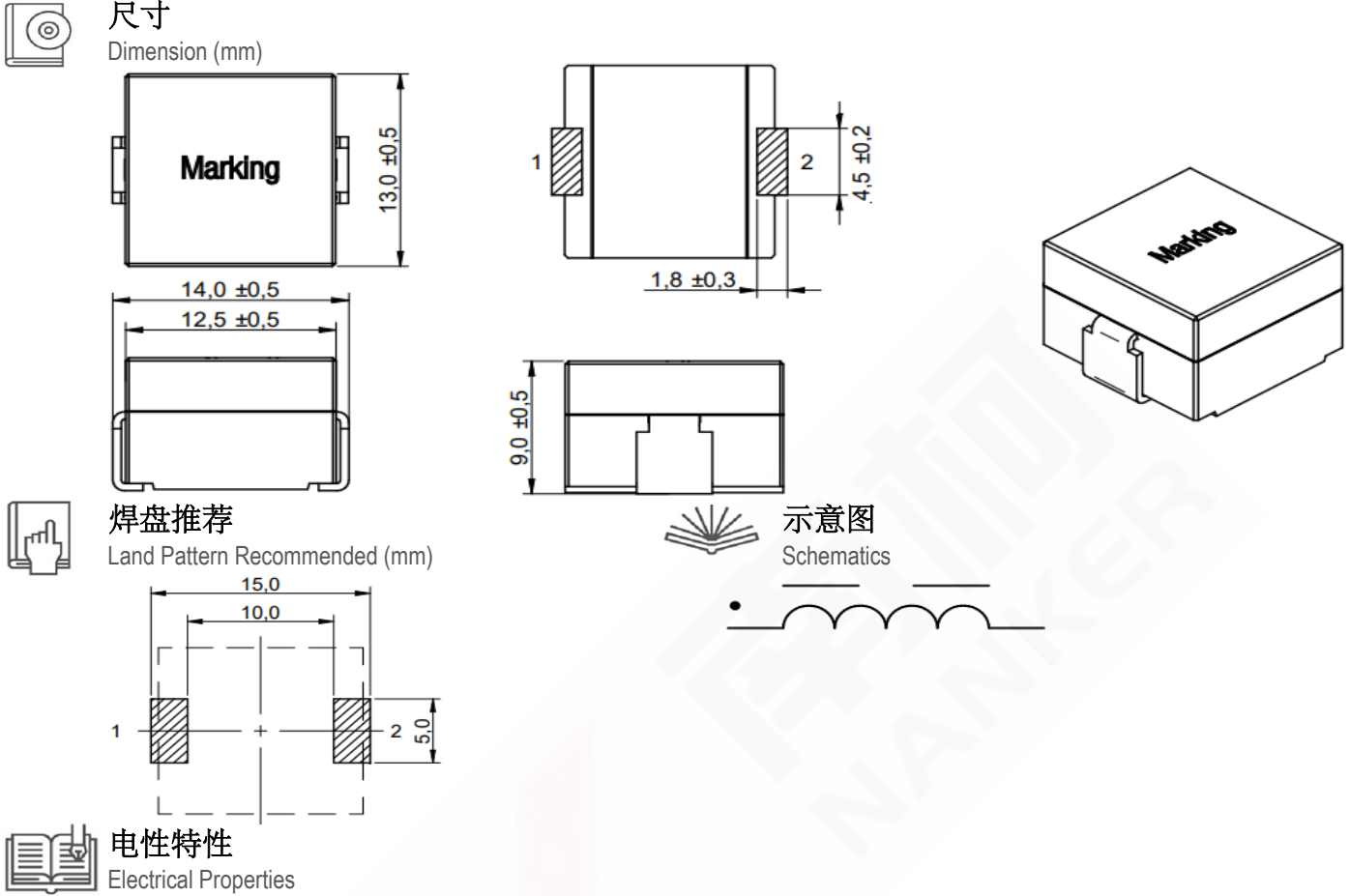


#### SPI12-1305-R33M



#### SPI12-1305-R40M





型号 Part No.	电感 Inductance μH	温升电流 Rated Current I <sub>R</sub> typ 40°C (A)	直流电阻 DC Resistance DCR ±10% (mΩ)	饱和电流 Saturation Current I <sub>sat</sub> typ (A)	卷盘数量 Taping Reel Qty. pcs
SPI12-1409-R12M	0.12 ±20%	47.50	0.165	125.00	300
SPI12-1409-R25M	0.25 ±20%	47.50	0.165	88.50	300
SPI12-1409-R33M	0.33 ±20%	47.50	0.165	65.70	300
SPI12-1409-R47M	0.47 ±20%	47.50	0.165	46.80	300

### 测试状态

Test Condition

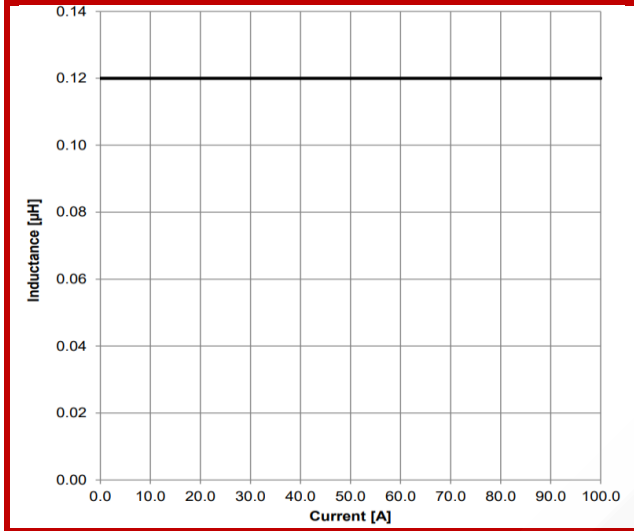
- ☆ 电感测试条件为 100 kHz/ 10 mA  
Inductance measure condition at 100 kHz/ 10 mA
- ☆ 工作温度: -40°C ~ +125°C  
Operating Temperature: -40°C ~ +125°C
- ☆ 饱和电流: 电感值下降其初始值的30%时所加载的实际直流电流值  
Saturation Current: The actual value of DC current when the inductance drop 30% of initial value



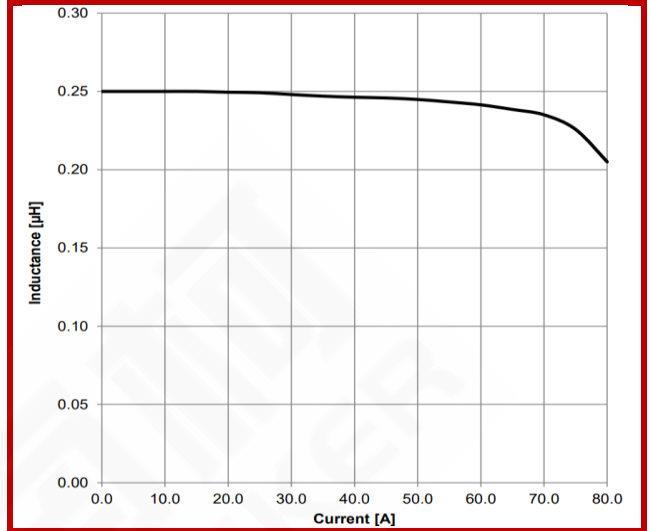
### 典型电感与电流特性

Typical Inductance vs. Current Characteristics

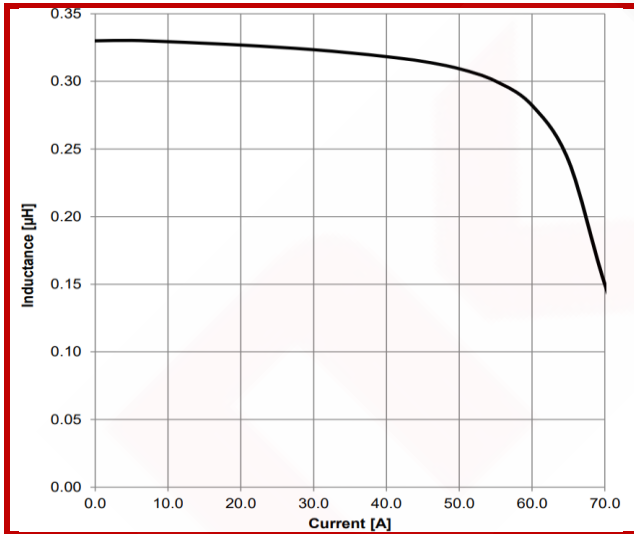
#### SPI12-1409-R12M



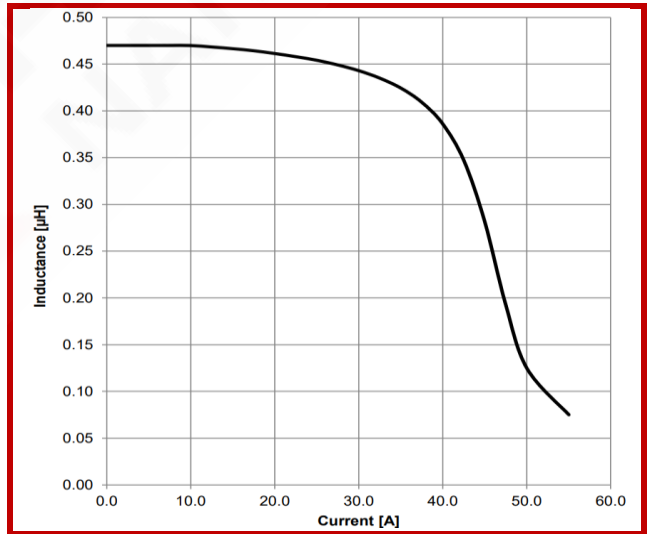
#### SPI12-1409-R25M



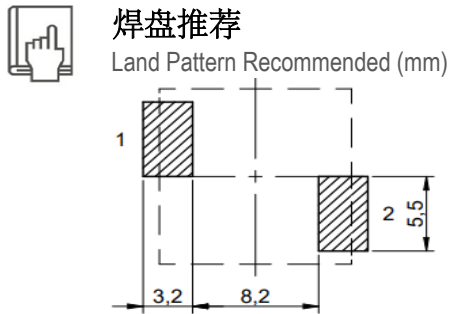
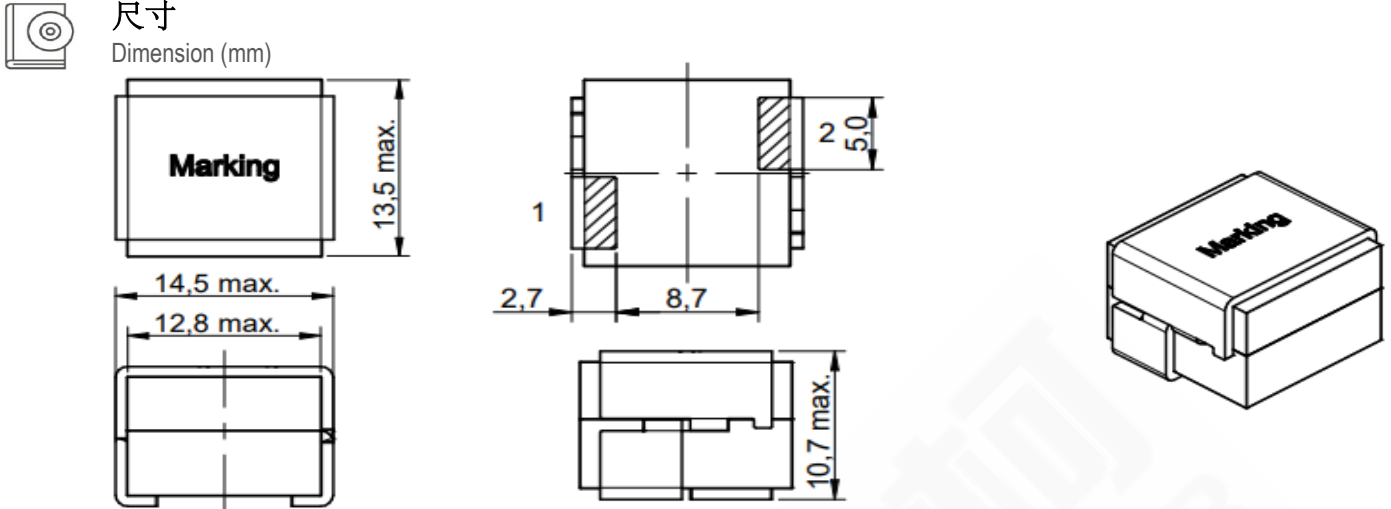
#### SPI12-1409-R33M



#### SPI12-1409-R47M







**电性特性**  
Electrical Properties

型号 Part No.	电感 Inductance μH	温升电流 Rated Current I <sub>R</sub> typ 40°C (A)	直流电阻 DC Resistance DCR ±10% (mΩ)	饱和电流 Saturation Current I <sub>sat</sub> typ (A)	卷盘数量 Taping Reel Qty. pcs
SPI12-1411-R62M	0.62 ±20%	34.00	0.420	74.00	250
SPI12-1411-R80M	0.80 ±20%	34.00	0.420	58.50	250
SPI12-1411-1R0M	1.00 ±20%	34.00	0.420	43.50	250
SPI12-1411-1R2M	1.20 ±20%	34.00	0.420	38.30	250
SPI12-1411-1R5M	1.50 ±20%	34.00	0.420	27.10	250

**测试状态**

Test Condition

☆ 电感测试条件为 100 kHz/ 10 mA

Inductance measure condition at 100 kHz/ 10 mA

☆ 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30%时所加载的实际直流电流值

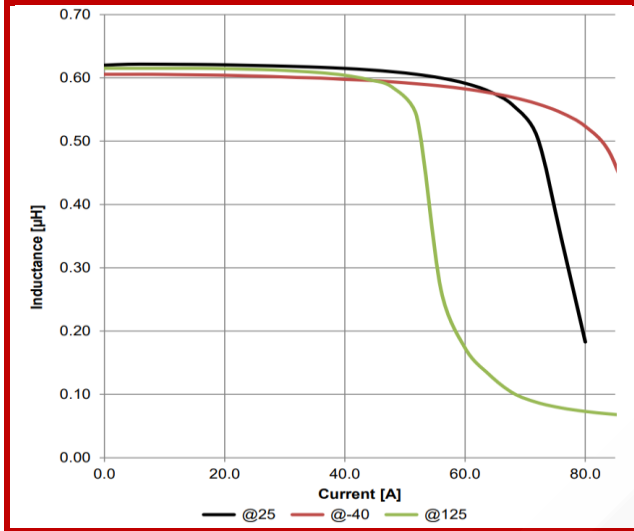
Saturation Current: The actual value of DC current when the inductance drop 30% of initial value



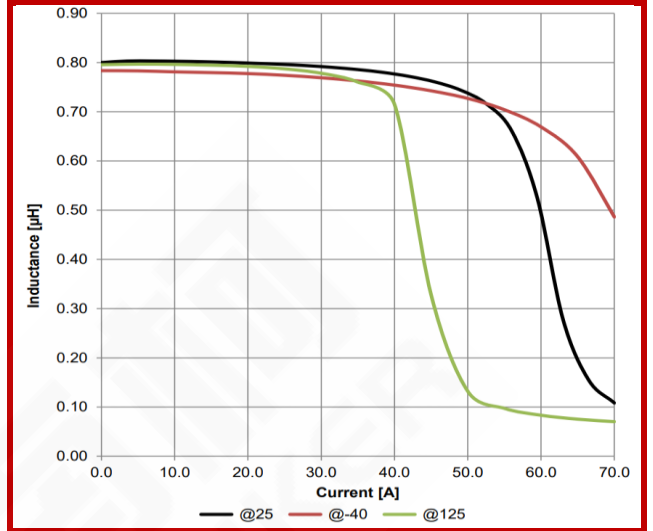
### 典型电感与电流特性

Typical Inductance vs. Current Characteristics

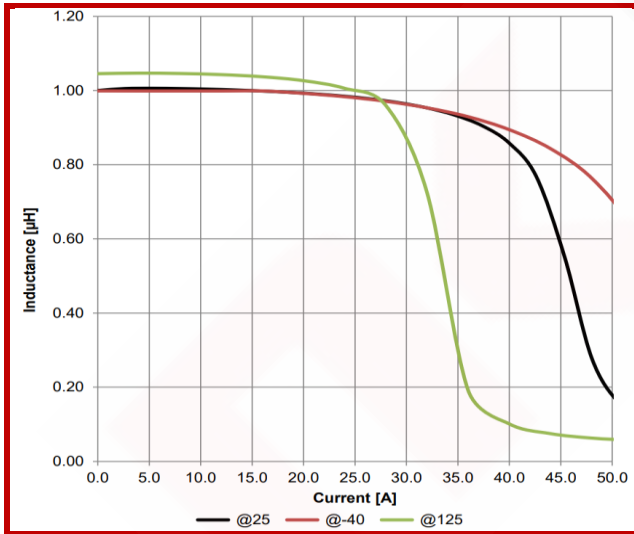
#### SPI12-1411-R62M



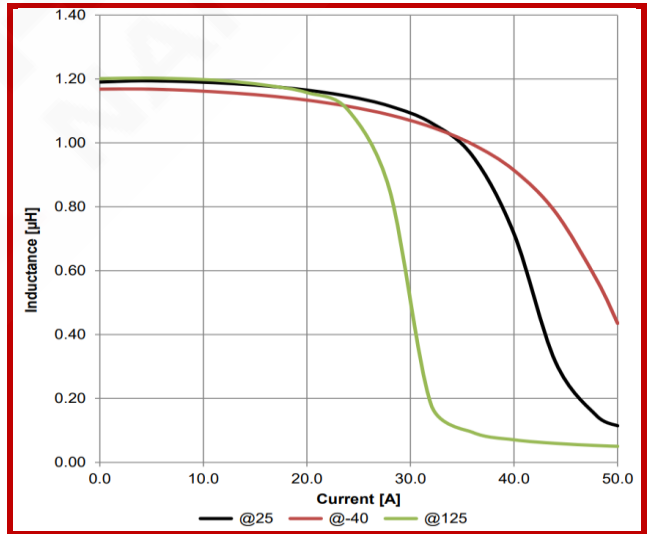
#### SPI12-1411-R80M



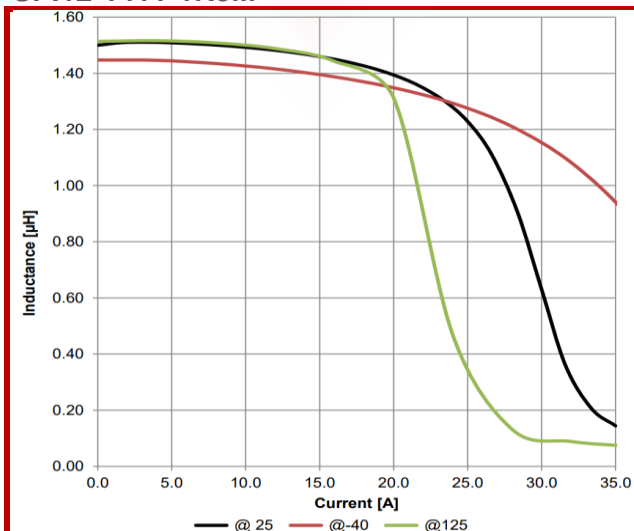
#### SPI12-1411-1R0M



#### SPI12-1411-1R2M



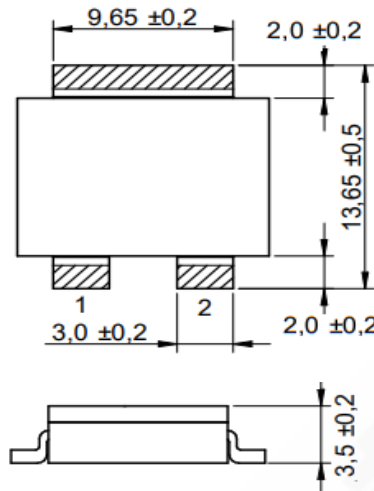
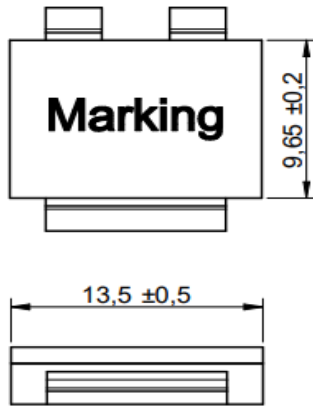
#### SPI12-1411-1R5M





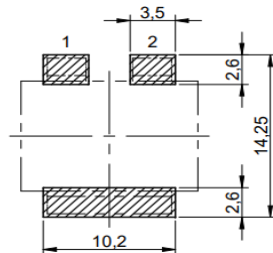
### 尺寸

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 <sub>r</sub> typ 40°C (A)	直流电阻 DC Resistance DCR ±10% (mΩ)	饱和电流 Saturation Current I <sub>sat</sub> typ (A)	卷盘数量 Taping Reel Qty. pcs
SPI12-1304-R10M	0.10 ±20%	31.00	0.280	82.60	600
SPI12-1304-R12M	0.12 ±20%	31.00	0.280	71.30	600
SPI12-1304-R15M	0.15 ±20%	31.00	0.280	64.80	600
SPI12-1304-R18M	0.18 ±20%	31.00	0.280	58.40	600
SPI12-1304-R22M	0.22 ±20%	31.00	0.280	43.00	600

### 测试状态

Test Condition

☆ 电感测试条件为 100 kHz/ 10 mA

Inductance measure condition at 100 kHz/ 10 mA

☆ 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30%时所加载的实际直流电流值

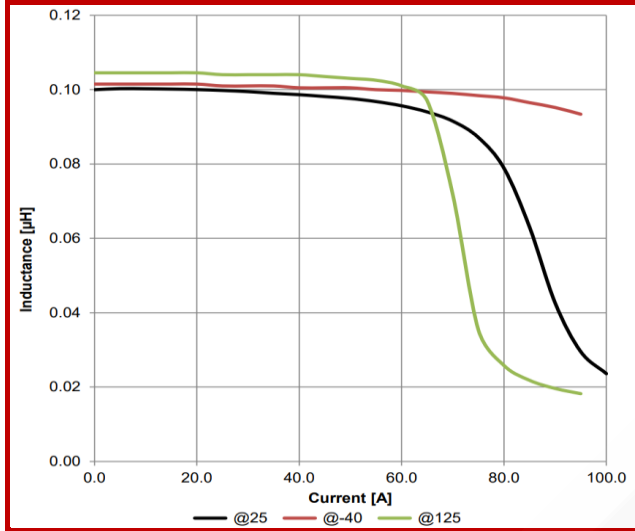
Saturation Current: The actual value of DC current when the inductance drop 30% of initial value



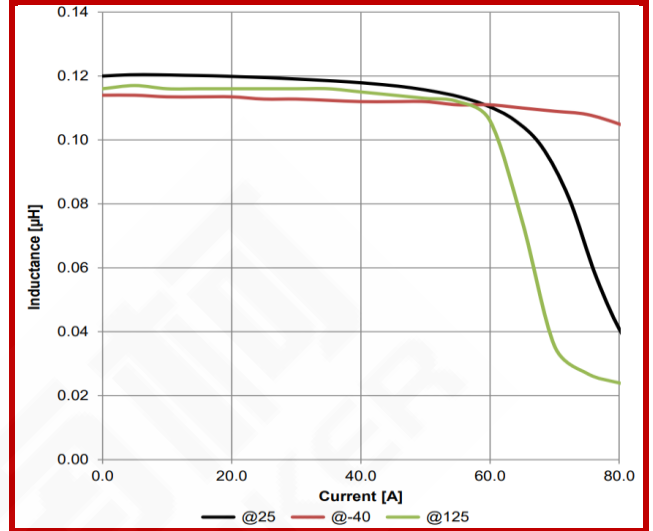
### 典型电感与电流特性

Typical Inductance vs. Current Characteristics

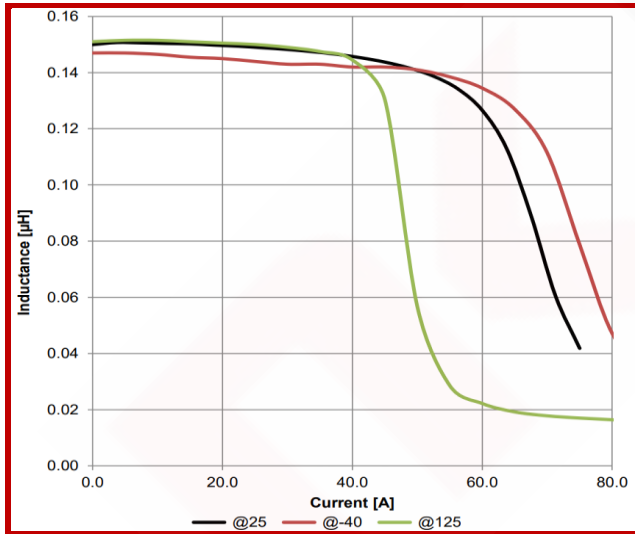
#### SPI12-1304-R10M



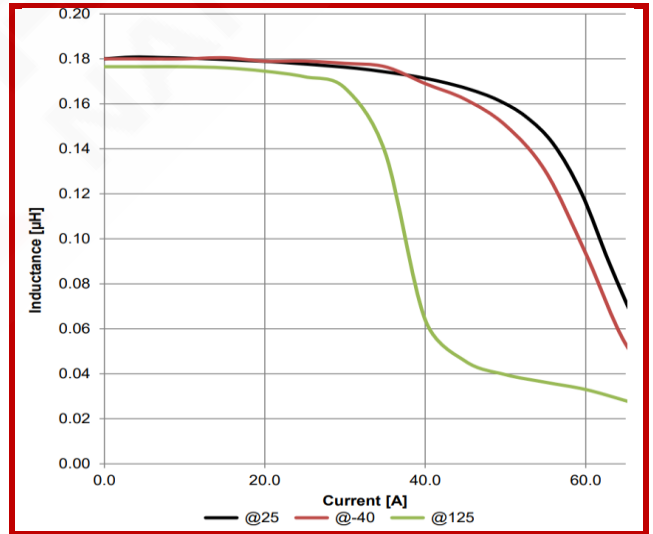
#### SPI12-1304-R12M



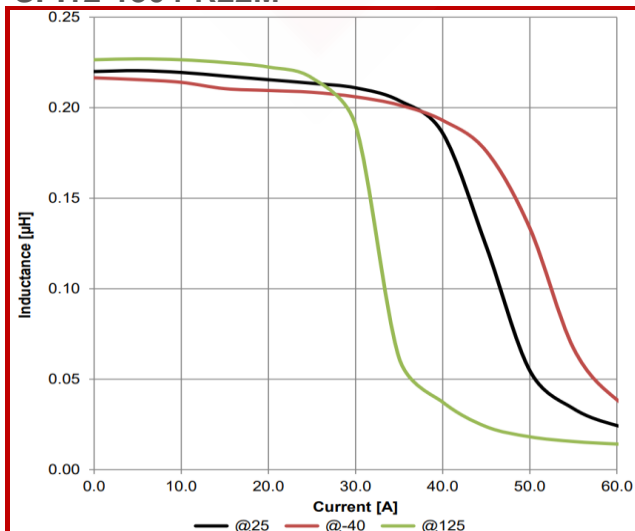
#### SPI12-1304-R15M



#### SPI12-1304-R18M



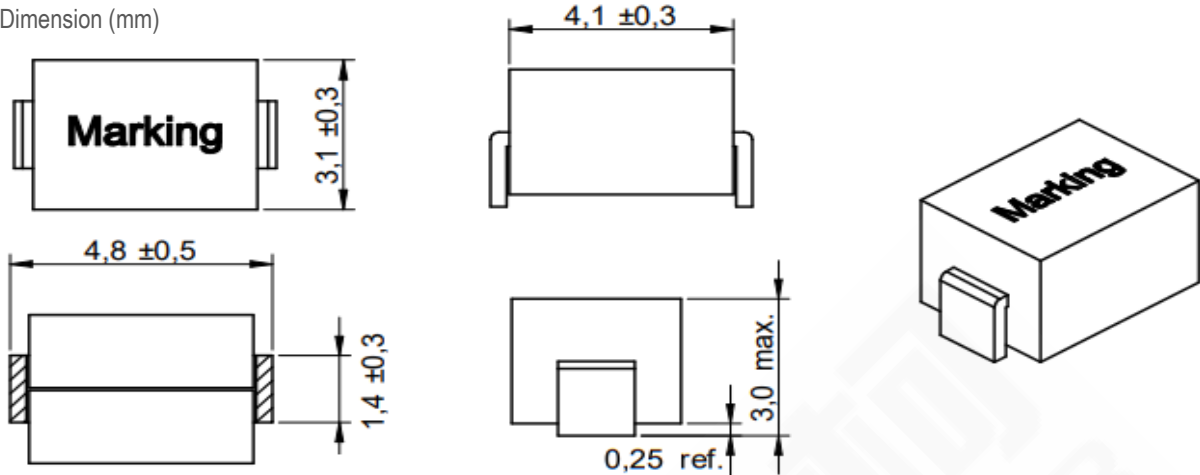
#### SPI12-1304-R22M





### 尺寸

Dimension (mm)



### 焊盘推荐

Land Pattern Recommended (mm)

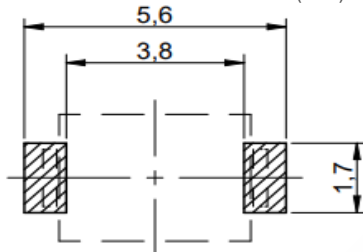


示意图  
Schematics



### 电性特性

Electrical Properties

型号 Part No.	电感 Inductance μH	温升电流 Rated Current I <sub>R</sub> typ 40°C (A)	直流电阻 DC Resistance DCR ±15% (mΩ)	饱和电流 Saturation Current I <sub>sat</sub> typ (A)	卷盘数量 Taping Reel Qty. pcs
SPI12-0503-R025M	0.025 ±20%	27.00	0.270	51.00	2,000
SPI12-0503-R003M	0.030 ±20%	27.00	0.270	50.60	2,000
SPI12-0503-R055M	0.055 ±20%	27.00	0.270	25.20	2,000
SPI12-0503-R075M	0.075 ±20%	27.00	0.270	23.50	2,000

### 测试状态

Test Condition

☆ 电感测试条件为 100 kHz/ 10 mA

Inductance measure condition at 100 kHz/ 10 mA

☆ 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30%时所加载的实际直流电流值

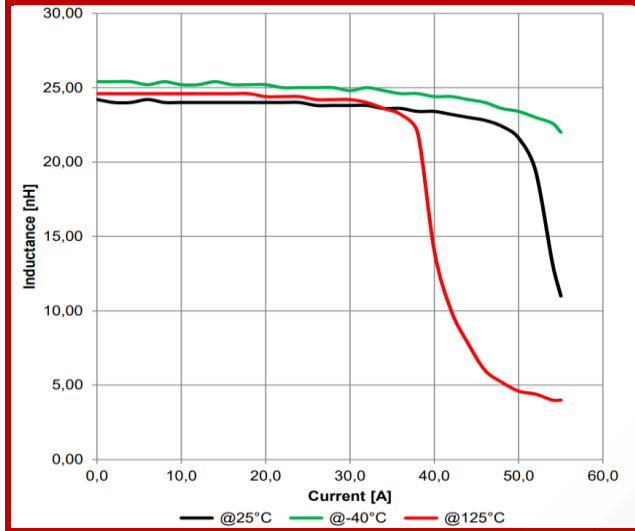
Saturation Current: The actual value of DC current when the inductance drop 30% of initial value



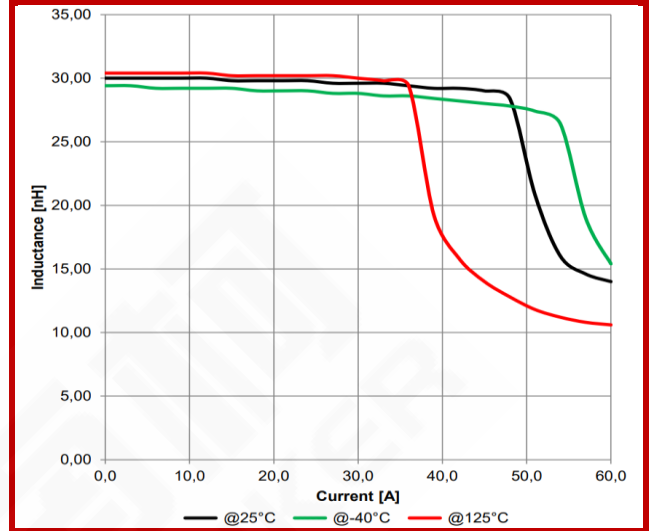
### 典型电感与电流特性

Typical Inductance vs. Current Characteristics

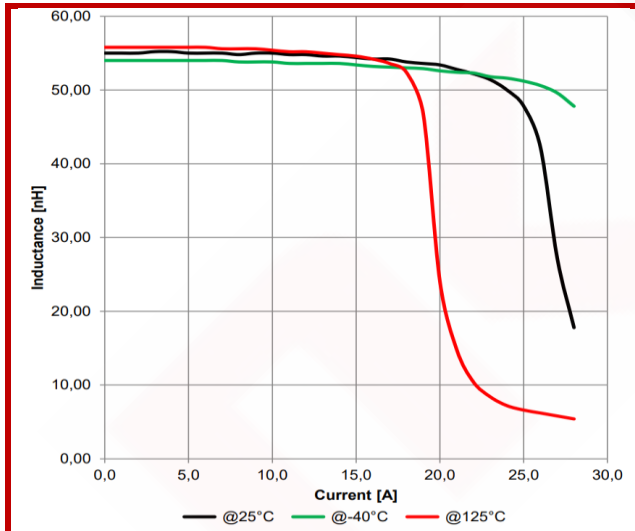
**SPI12-0503-R025M**



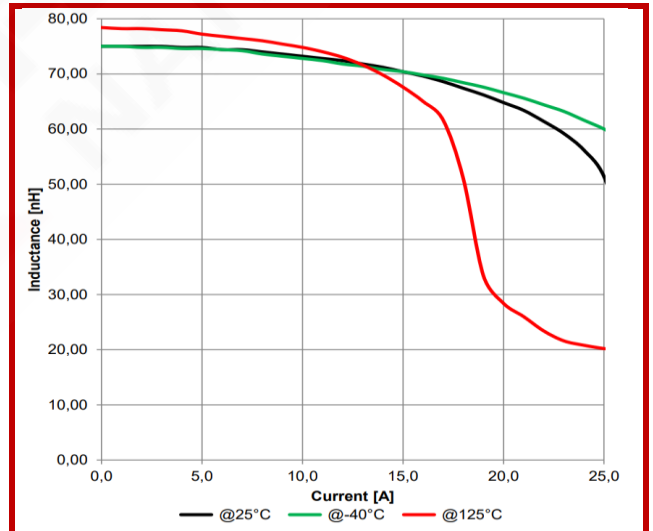
**SPI12-0503-R003M**



**SPI12-0503-R055M**



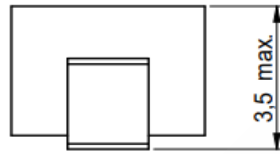
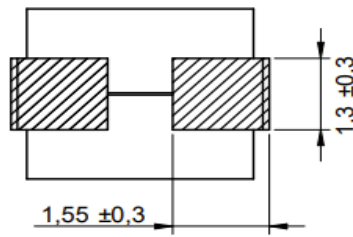
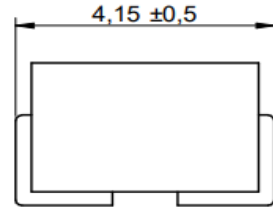
**SPI12-0503-R075M**





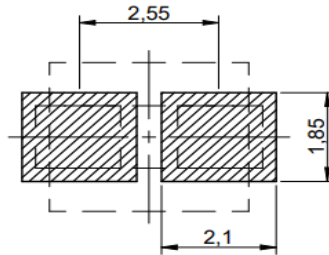
### 尺寸

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 <sub>r</sub> typ 40°C (A)	直流电阻 DC Resistance DCR ±10% (mΩ)	饱和电流 Saturation Current I <sub>sat</sub> typ (A)	卷盘数量 Taping Reel Qty. pcs
SPI12-0403-R07M	0.07 ±20%	29.00	0.380	18.10	2,000
SPI12-0403-R10M	0.10 ±20%	29.00	0.380	19.10	2,000

### 测试状态

Test Condition

☆ 电感测试条件为 100 kHz/ 10 mA

Inductance measure condition at 100 kHz/ 10 mA

☆ 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30%时所加载的实际直流电流值

Saturation Current: The actual value of DC current when the inductance drop 30% of initial value

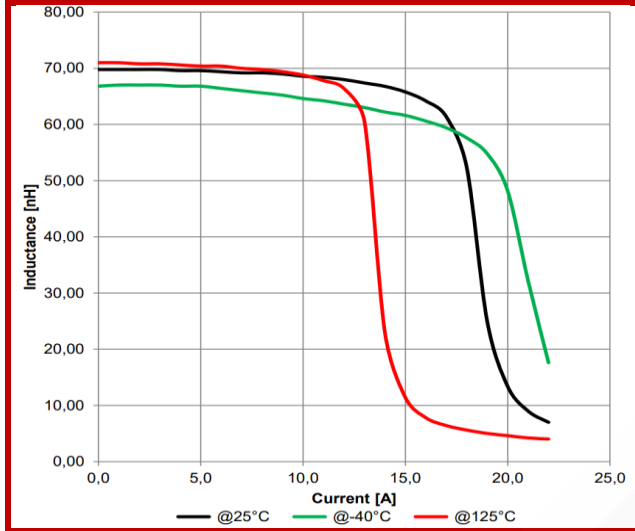




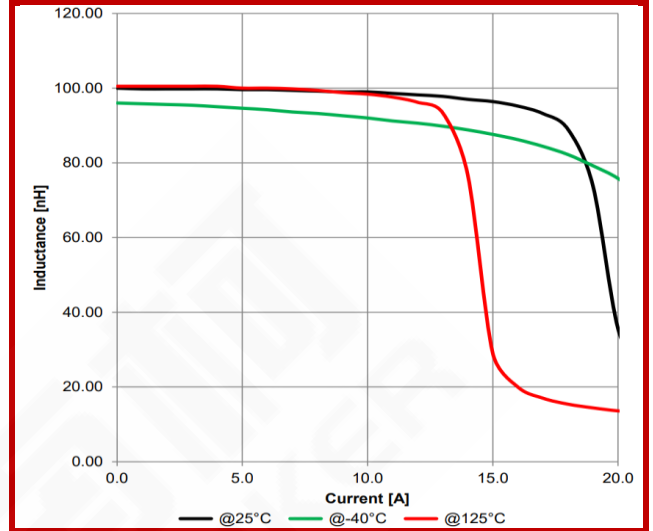
### 典型电感与电流特性

Typical Inductance vs. Current Characteristics

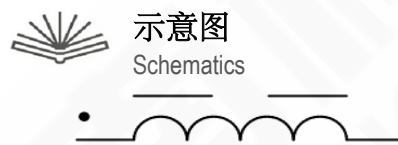
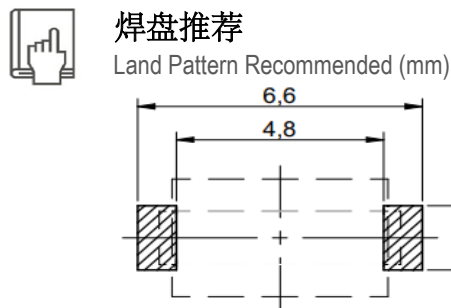
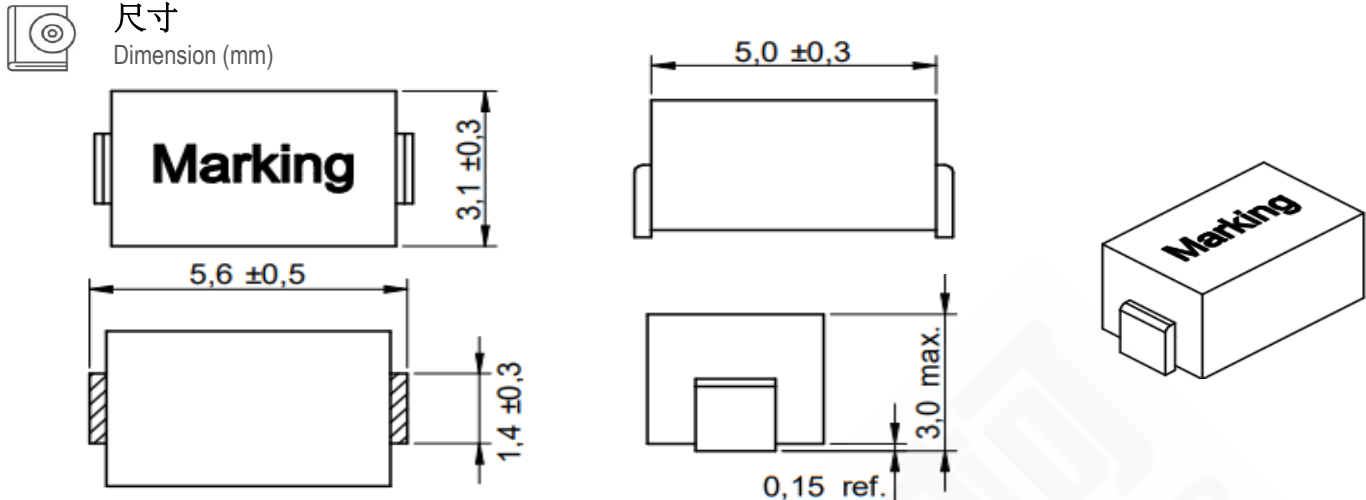
#### SPI12-0403-R07M



#### SPI12-0403-R10M







**电性特性**  
Electrical Properties

型号 Part No.	电感 Inductance μH	温升电流 Rated Current I <sub>R</sub> typ 40°C (A)	直流电阻 DC Resistance DCR ±15% (mΩ)	饱和电流 Saturation Current I <sub>sat</sub> typ (A)	卷盘数量 Taping Reel Qty. pcs
SPI12-0603-R10M	0.10 ±20%	27.00	0.310	19.10	2,000

**测试状态**

Test Condition

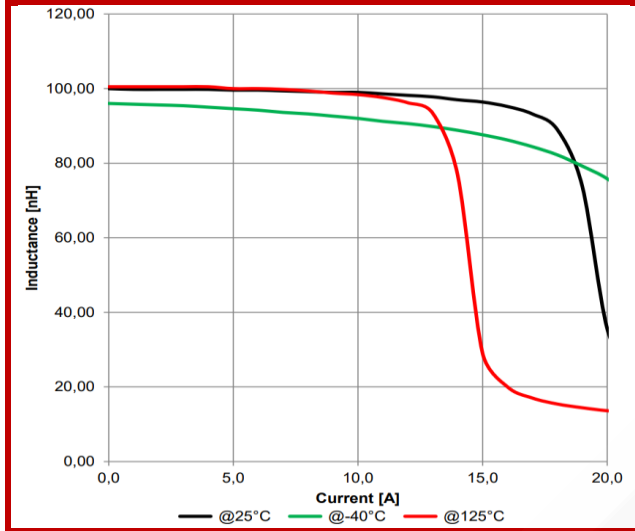
- ☆ 电感测试条件为 100 kHz/ 10 mA  
Inductance measure condition at 100 kHz/ 10 mA
- ☆ 工作温度: -40°C ~ +125°C  
Operating Temperature: -40°C ~ +125°C
- ☆ 饱和电流: 电感值下降其初始值的30%时所加载的实际直流电流值  
Saturation Current: The actual value of DC current when the inductance drop 30% of initial value

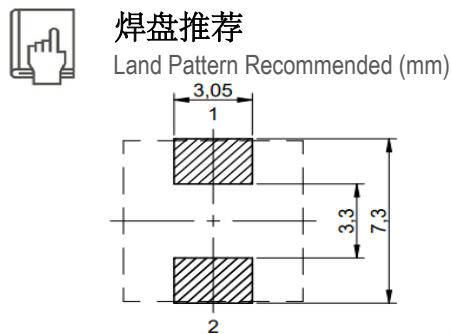
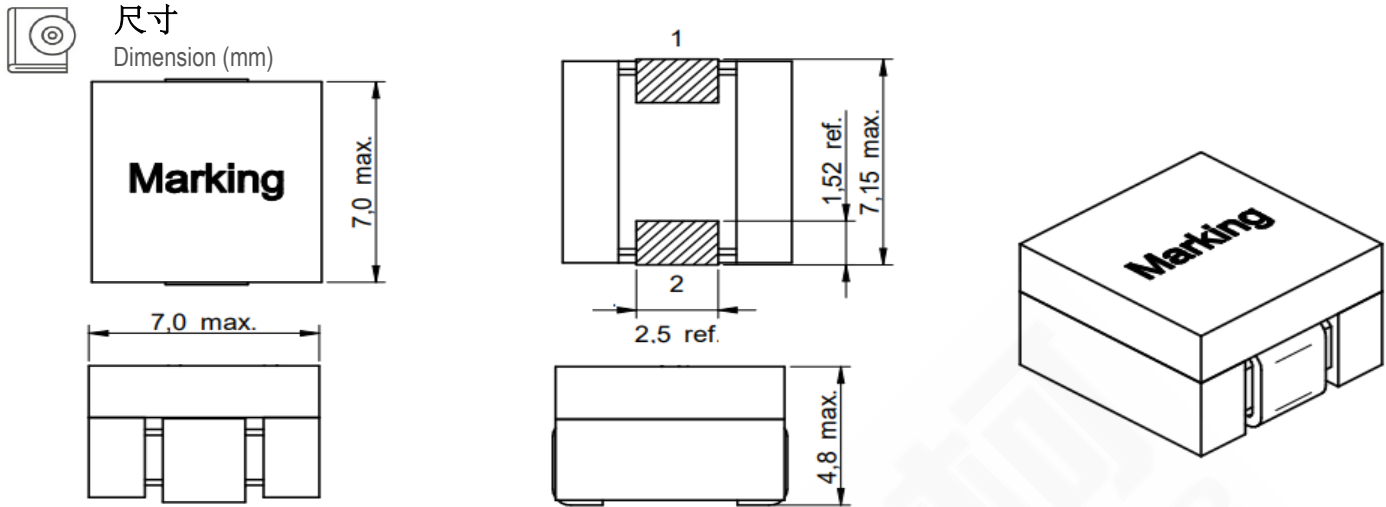


### 典型电感与电流特性

Typical Inductance vs. Current Characteristics

#### SPI12-0603-R10M





**电性特性**  
Electrical Properties

型号 Part No.	电感 Inductance μH	温升电流 Rated Current I <sub>R</sub> typ 40°C (A)	直流电阻 DC Resistance DCR ±8% (mΩ)	饱和电流 Saturation Current I <sub>sat</sub> typ (A)	卷盘数量 Taping Reel Qty. pcs
SPI12-0705-R072M	0.072 ±20%	30.00	0.235	64.00	1,000
SPI12-0705-R105M	0.105 ±20%	30.00	0.235	51.00	1,000
SPI12-0705-R15M	0.150 ±20%	30.00	0.235	35.00	1,000

**测试状态**

Test Condition

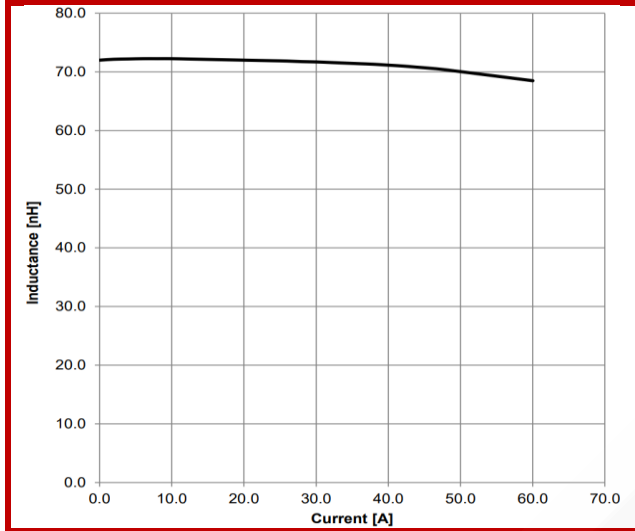
- ☆ 电感测试条件为 100 kHz/ 100 mA  
Inductance measure condition at 100 kHz/ 100 mA
- ☆ 工作温度: -40°C ~ +125°C  
Operating Temperature: -40°C ~ +125°C
- ☆ 饱和电流: 电感值下降其初始值的30%时所加载的实际直流电流值  
Saturation Current: The actual value of DC current when the inductance drop 30% of initial value



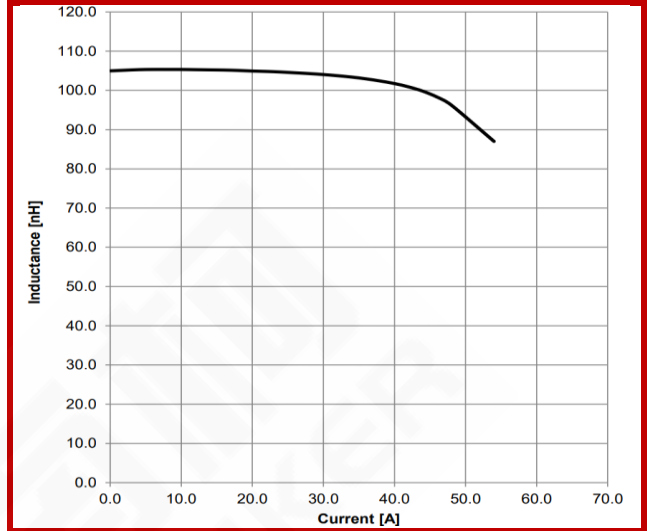
### 典型电感与电流特性

Typical Inductance vs. Current Characteristics

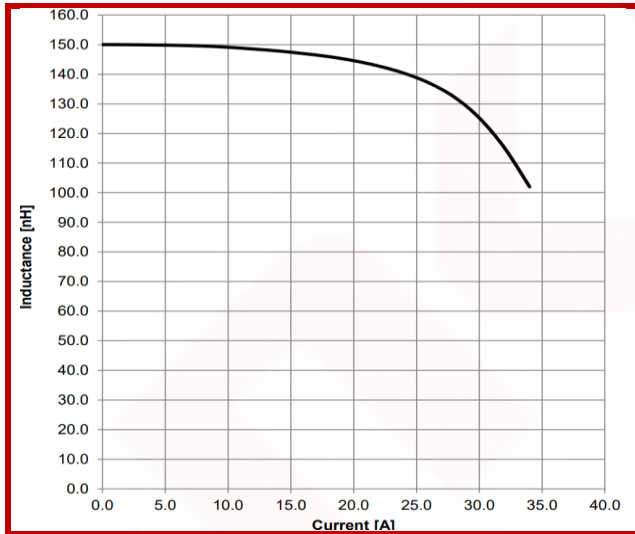
#### SPI12-0705-R075M



#### SPI12-0705-R105M



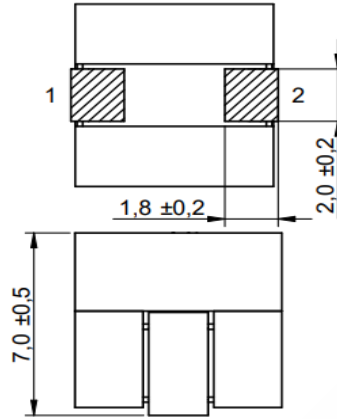
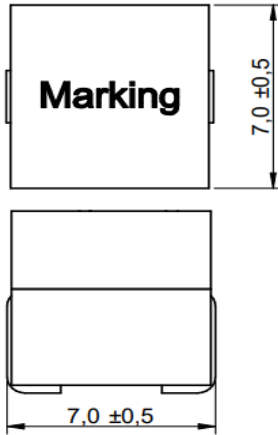
#### SPI12-0705-R15M





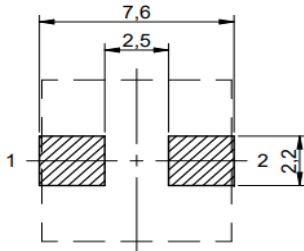
### 尺寸

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 <sub>r</sub> typ 40°C (A)	直流电阻 DC Resistance DCR ±8% (mΩ)	饱和电流 Saturation Current I <sub>sat</sub> typ (A)	卷盘数量 Taping Reel Qty. pcs
SPI12-0707-R12M	0.12 ±20%	26.00	0.290	48.50	700
SPI12-0707-R16M	0.16 ±20%	26.00	0.290	51.70	700
SPI12-0707-R22M	0.22 ±20%	26.00	0.290	29.90	700

### 测试状态

Test Condition

☆ 电感测试条件为 100 kHz/ 10 mA

Inductance measure condition at 100 kHz/ 10 mA

☆ 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30%时所加载的实际直流电流值

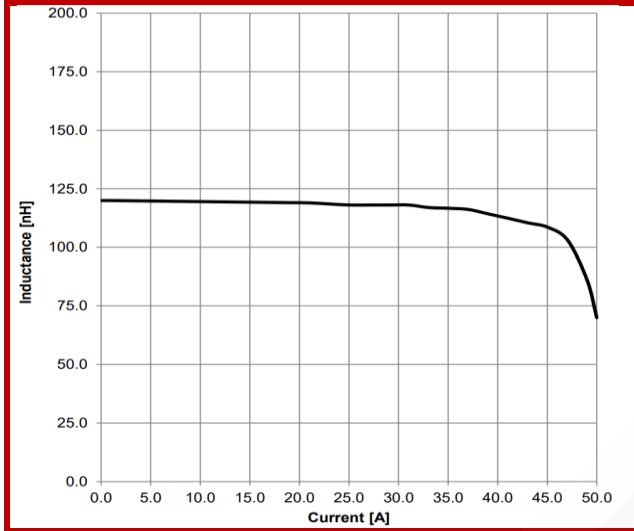
Saturation Current: The actual value of DC current when the inductance drop 30% of initial value



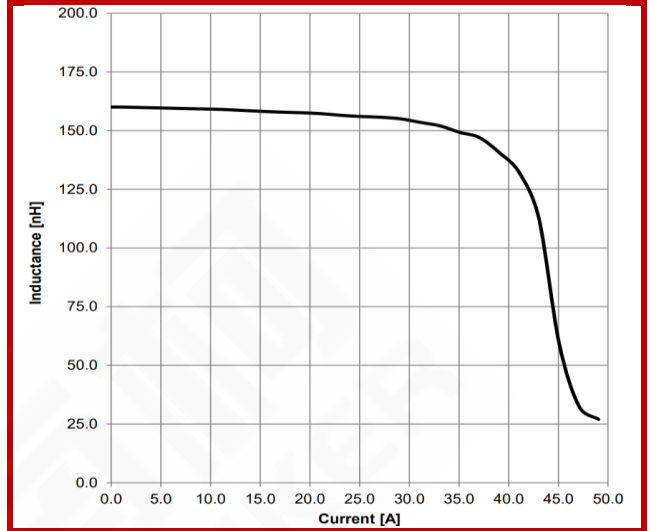
### 典型电感与电流特性

Typical Inductance vs. Current Characteristics

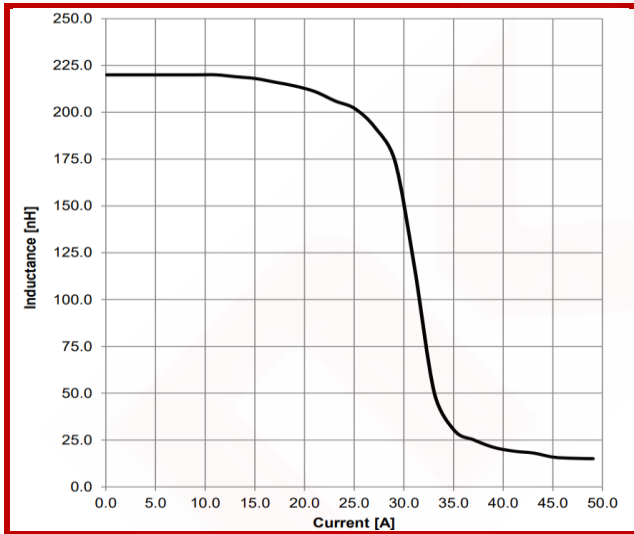
#### SPI12-0707-R12M



#### SPI12-0707-R16M



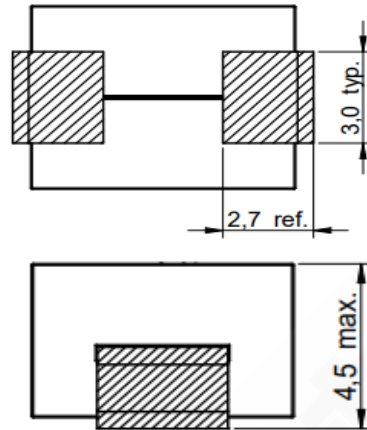
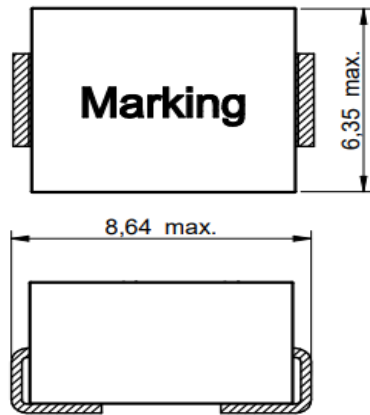
#### SPI12-0707-R22M





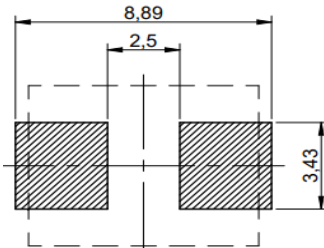
### 尺寸

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 $\mu\text{H}$	温升电流 Rated Current $I_R$ typ 40°C (A)	直流电阻 DC Resistance DCR $\pm 10\%$ (m $\Omega$ )	饱和电流 Saturation Current $I_{sat}$ typ (A)	卷盘数量 Taping Reel Qty. pcs
SPI12-0805-R06M	0.06 $\pm 20\%$	37.00	0.220	65.60	1,000
SPI12-0805-R08M	0.08 $\pm 20\%$	37.00	0.220	53.10	1,000
SPI12-0805-R10M	0.10 $\pm 20\%$	37.00	0.220	43.10	1,000
SPI12-0805-R15M	0.15 $\pm 20\%$	37.00	0.220	32.30	1,000
SPI12-0805-R22M	0.22 $\pm 20\%$	37.00	0.220	21.60	1,000

### 测试状态

Test Condition

☆ 电感测试条件为 100 kHz/ 10 mA

Inductance measure condition at 100 kHz/ 10 mA

☆ 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30%时所加载的实际直流电流值

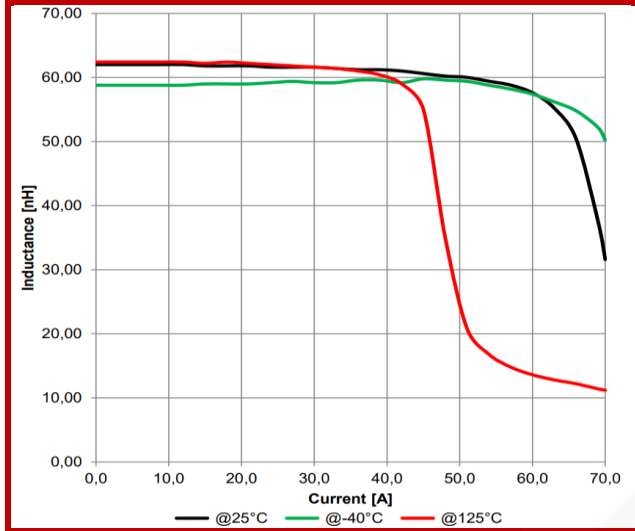
Saturation Current: The actual value of DC current when the inductance drop 30% of initial value



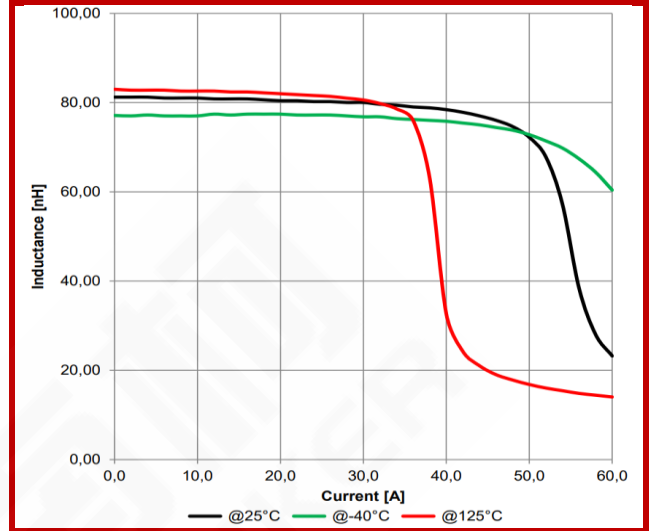
### 典型电感与电流特性

Typical Inductance vs. Current Characteristics

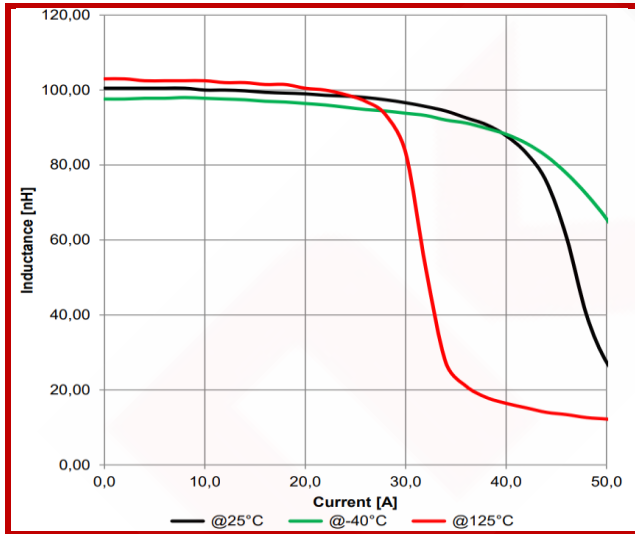
**SPI12-0805-R06M**



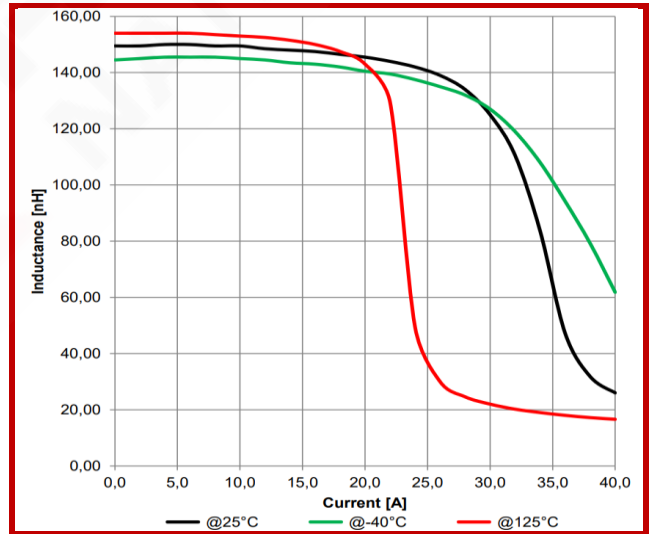
**SPI12-0805-R08M**



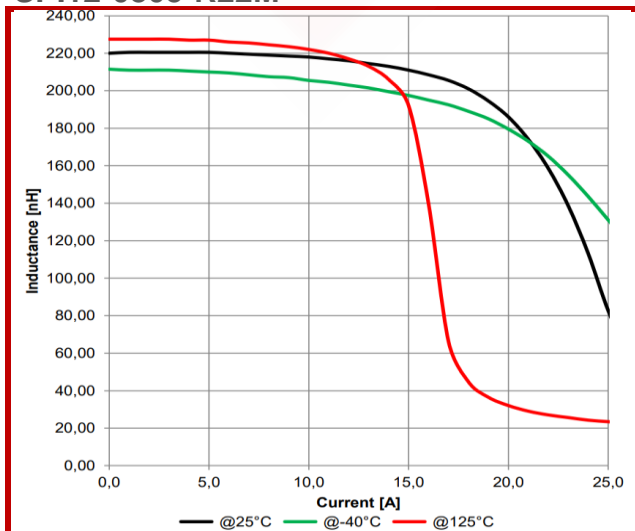
**SPI12-0805-R10M**



**SPI12-0805-R15M**



**SPI12-0805-R22M**

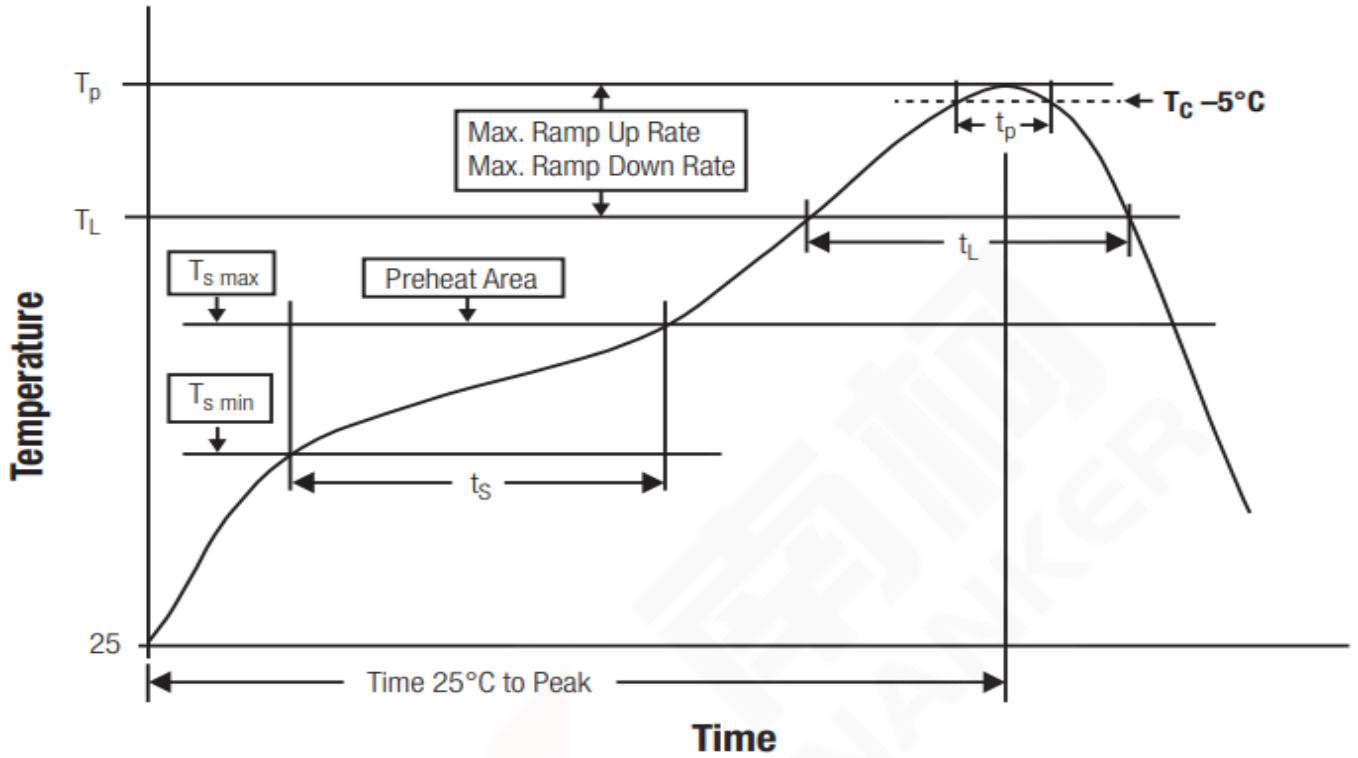






### 回流焊曲线图

Classification Reflow Profile for SMT Components



### 封装体峰值温度(Tp)分类

Classification Reflow Soldering Profile:

	封装厚度 Package Thickness	封装体积 Package Volume		
		<350 mm <sup>3</sup>	350~2,000 mm <sup>3</sup>	>2,000 mm <sup>3</sup>
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.