

产品承认书  
PRODUCT APPROVED SHEET

客户名称

CUSTOMER NAME: \_\_\_\_\_

产品名称

PRODUCT NAME: 功率电感 POWER INDUCTOR

产品型号

PRODUCT MODEL: NLPH 系列

客户料号

CUSTOMER P/N: \_\_\_\_\_

送样日期

SAMPLE DATE: \_\_\_\_\_

供应商

SUPPLIER: 南京南山半导体有限公司 NSCN SEMICONDUCTOR CO., LTD.

※ 本公司承诺所销售产品的品质与所送样品一致，并与附件所录参数相符。

We promise our products conform to the sample furnished in quality, and match with the parameters in the attachment.

※ 若对产品的品质有特殊要求,请与本公司销售工程师联系。

In case of any special requirement on the quality, please feel free to contact our sales engineers.

※ 感谢您给予本公司承认的机会,烦请将此表寄回本公司便于存档。

Thank you for giving the opportunity for the sample approval, please send this form back to the company for archiving.

公司确认 COMPANY APPROVAL			客户确认 CUSTOMER APPROVAL		
编写 PREPARED	审核 CHECKED	批准 APPROVED	检验 VERIFIED	审核 CHECKED	批准 APPROVED
公司签章 CHOP			公司签章 CHOP		

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## NLPH 系列功率電感 NLPH Series SMD Power Inductors



### • 特征 FEATURES

- 超薄
- Low profile.
- 屏蔽結構
- Magnetic shielded.
- 適合于表面貼裝
- SMT type.

### • 應用 APPLICATIONS

- 移動通信
- Portable communication equipment
- 筆記本電腦
- Notebook computer
- DC/DC轉換
- DC/DC converters

### • 產品規格型號的表示方法 ORDERING CODE

NLPH   0630   - R33 M T

(1)

(2)

(3)

(4)

(5)

產品代號 Product Code	
NLPH	NLPH 系列 功率電感

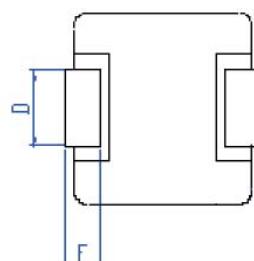
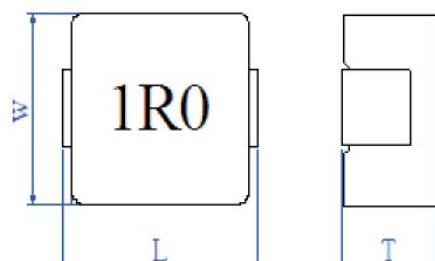
規格尺寸(L×W×T) (mm) Dimensions	
2520	2.6×2.1×2.0
0650	6.85×6.5×5.0
1250	13.2×12.6×5.0

感量(μH) Inductance	
R33	0.33 μH
1R0	1.00 μH
100	10.0 μH

誤差 Tolerance	
K	±10%
M	±20%

包裝方式 Packaging Style	
T	卷帶盤裝 Tape & Reel
B	散裝 Bulk

### • 外形尺寸 SHAPE AND DIMENSIONS



Land Pattern mm

型號 Part Number	L(Max)	W(Max)	T(Max)	D	F
NLPH2520	2.6	2.1	2.0	0.5±0.3	1.0±0.3
NLPH0418	4.9	4.5	1.8	1.5±0.3	1.0±0.3
NLPH0420	4.9	4.5	2.0	1.5±0.3	1.0±0.3
NLPH0520	5.9	5.2	2.0	2.0±0.3	1.0±0.3









## NLPH 1240 Series

型號 Part Number	電感量 L ( $\mu$ H)	公差 Tolerance	測試頻率 Test Freq.	直流電阻 DCR( $m\Omega$ )Max	飽和電流 Isat(A)
NLPH1240-R47MT	0.47	$\pm 20\%$	100KHz	2.0	55
NLPH1240-R60MT	0.60	$\pm 20\%$	100KHz	3.0	40
NLPH1240-1R0MT	1.0	$\pm 20\%$	100KHz	3.5	38
NLPH1240-1R5MT	1.5	$\pm 20\%$	100KHz	4.5	30
NLPH1240-1R8MT	1.8	$\pm 20\%$	100KHz	8.3	26
NLPH1240-2R2MT	2.2	$\pm 20\%$	100KHz	9.5	22
NLPH1240-3R3MT	3.3	$\pm 20\%$	100KHz	10	20
NLPH1240-4R7MT	4.7	$\pm 20\%$	100KHz	14	15
NLPH1240-5R6MT	5.6	$\pm 20\%$	100KHz	17	14
NLPH1240-6R8MT	6.8	$\pm 20\%$	100KHz	24	12
NLPH1240-8R2MT	8.2	$\pm 20\%$	100KHz	28	12
NLPH1240-100MT	10	$\pm 20\%$	100KHz	35	10
NLPH1240-150MT	15	$\pm 20\%$	100KHz	60	9.0
NLPH1240-220MT	22	$\pm 20\%$	100KHz	80	7.0

Isat: 饱和电流, 加Isat时, 電感值相對初始值下降 &lt; 30%

Isat: Saturation Current, the current when the inductance becomes 30% lower than its initial value.

## NLPH 1250 Series

型號 Part Number	電感量 L ( $\mu$ H)	公差 Tolerance	測試頻率 Test Freq.	直流電阻 DCR( $m\Omega$ )Max	飽和電流 Isat(A)
NLPH1250-R33MT	0.33	$\pm 20\%$	100KHz	1.0	60
NLPH1250-R36MT	0.36	$\pm 20\%$	100KHz	1.2	50
NLPH1250-R47MT	0.47	$\pm 20\%$	100KHz	1.3	48
NLPH1250-R56MT	0.56	$\pm 20\%$	100KHz	1.5	46
NLPH1250-R68MT	0.68	$\pm 20\%$	100KHz	1.5	40
NLPH1250-R82MT	0.82	$\pm 20\%$	100KHz	2.5	39
NLPH1250-1R0MT	1.0	$\pm 20\%$	100KHz	3.5	35
NLPH1250-1R5MT	1.5	$\pm 20\%$	100KHz	4.1	33
NLPH1250-1R8MT	1.8	$\pm 20\%$	100KHz	4.3	30
NLPH1250-2R2MT	2.2	$\pm 20\%$	100KHz	4.5	25
NLPH1250-3R3MT	3.3	$\pm 20\%$	100KHz	13	23
NLPH1250-4R7MT	4.7	$\pm 20\%$	100KHz	15	21
NLPH1250-5R6MT	5.6	$\pm 20\%$	100KHz	17	20
NLPH1250-6R8MT	6.8	$\pm 20\%$	100KHz	19	18
NLPH1250-8R2MT	8.2	$\pm 20\%$	100KHz	22.5	17
NLPH1250-100MT	10	$\pm 20\%$	100KHz	25.5	13
NLPH1250-150MT	15	$\pm 20\%$	100KHz	60	12
NLPH1250-220MT	22	$\pm 20\%$	100KHz	75	8.0
NLPH1250-330MT	33	$\pm 20\%$	100KHz	82	6.0
NLPH1250-470MT	47	$\pm 20\%$	100KHz	90	3.5
NLPH1250-560MT	56	$\pm 20\%$	100KHz	180	3.5
NLPH1250-680MT	68	$\pm 20\%$	100KHz	210	3.5

Isat: 饱和电流, 加Isat时, 電感值相對初始值下降 &lt; 30%

Isat: Saturation Current, the current when the inductance becomes 30% lower than its initial value.

## NLPH 1260 Series

型號 Part Number	電感量 L ( $\mu$ H)	公差 Tolerance	測試頻率 Test Freq.	直流電阻 DCR(mΩ)Max	飽和電流 Isat(A)
NLPH1260-R33MT	0.33	$\pm 20\%$	100KHz	2.3	55
NLPH1260-R68MT	0.68	$\pm 20\%$	100KHz	2.8	45
NLPH1260-1R0MT	1.0	$\pm 20\%$	100KHz	3.5	40
NLPH1260-1R5MT	1.5	$\pm 20\%$	100KHz	4.0	35
NLPH1260-2R2MT	2.2	$\pm 20\%$	100KHz	4.5	32
NLPH1260-3R3MT	3.3	$\pm 20\%$	100KHz	8.2	30
NLPH1260-4R7MT	4.7	$\pm 20\%$	100KHz	13.5	25
NLPH1260-5R6MT	5.6	$\pm 20\%$	100KHz	21	22
NLPH1260-6R8MT	6.8	$\pm 20\%$	100KHz	23	20
NLPH1260-100MT	10	$\pm 20\%$	100KHz	30	12.5
NLPH1260-220MT	22	$\pm 20\%$	100KHz	45	7.5

Isat: 飽和電流，加Isat時，電感值相對初始值下降≤30%

Isat: Saturation Current, the current when the inductance becomes 30% lower than its initial value.

## NLPH 1270 Series

型號 Part Number	電感量 L ( $\mu$ H)	公差 Tolerance	測試頻率 Test Freq.	直流電阻 DCR(mΩ)Max	飽和電流 Isat(A)
NLPH1270-R22MT	0.22	$\pm 20\%$	100KHz	0.81	80
NLPH1270-R56MT	0.56	$\pm 20\%$	100KHz	1.7	60
NLPH1270-R68MT	0.68	$\pm 20\%$	100KHz	1.8	54
NLPH1270-R82MT	0.82	$\pm 20\%$	100KHz	2.0	50
NLPH1270-1R0MT	1.0	$\pm 20\%$	100KHz	2.5	49
NLPH1270-1R5MT	1.5	$\pm 20\%$	100KHz	3.5	45
NLPH1270-2R2MT	2.2	$\pm 20\%$	100KHz	4.5	40
NLPH1270-3R3MT	3.3	$\pm 20\%$	100KHz	8.2	28
NLPH1270-4R7MT	4.7	$\pm 20\%$	100KHz	14	22.5
NLPH1270-5R6MT	5.6	$\pm 20\%$	100KHz	15	20
NLPH1270-6R8MT	6.8	$\pm 20\%$	100KHz	13	18
NLPH1270-8R2MT	8.2	$\pm 20\%$	100KHz	25	16
NLPH1270-100MT	10	$\pm 20\%$	100KHz	25	15.5
NLPH1270-150MT	15	$\pm 20\%$	100KHz	38	9.0
NLPH1270-220MT	22	$\pm 20\%$	100KHz	48	7.5
NLPH1270-330MT	33	$\pm 20\%$	100KHz	66	6.5
NLPH1270-470MT	47	$\pm 20\%$	100KHz	90	5.0
NLPH1270-560MT	56	$\pm 20\%$	100KHz	110	4.0
NLPH1270-680MT	68	$\pm 20\%$	100KHz	123	3.5
NLPH1270-121MT	120	$\pm 20\%$	100KHz	260	3.0
NLPH1270-151MT	150	$\pm 20\%$	100KHz	298	2.5

Isat: 饱和电流，加Isat时，电感值相对初始值下降≤30%

Isat: Saturation Current, the current when the inductance becomes 30% lower than its initial value.

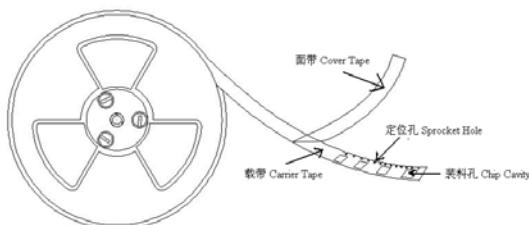
## NLPH 1770 Series

型號 Part Number	電感量 $L (\mu H)$	公差 Tolerance	測試頻率 Test Freq.	直流電阻 DCR( $m\Omega$ )Max	飽和電流 $I_{sat}(A)$
NLPH1770-R22MT	0.22	± 20%	100KHz	0.70	100
NLPH1770-R33MT	0.33	± 20%	100KHz	0.8	90
NLPH1770-R47MT	0.47	± 20%	100KHz	1.0	80
NLPH1770-R56MT	0.56	± 20%	100KHz	1.15	70
NLPH1770-R82MT	0.82	± 20%	100KHz	1.3	60
NLPH1770-1R0MT	1.0	± 20%	100KHz	1.7	50
NLPH1770-1R5MT	1.5	± 20%	100KHz	2.15	45
NLPH1770-2R2MT	2.2	± 20%	100KHz	2.6	34
NLPH1770-3R3MT	3.3	± 20%	100KHz	3.5	24
NLPH1770-4R7MT	4.7	± 20%	100KHz	5.0	21
NLPH1770-6R8MT	6.8	± 20%	100KHz	7.0	18
NLPH1770-8R2MT	8.2	± 20%	100KHz	9.0	18
NLPH1770-100MT	10	± 20%	100KHz	10	17
NLPH1770-150MT	15	± 20%	100KHz	15	12
NLPH1770-220MT	22	± 20%	100KHz	25	9.5
NLPH1770-330MT	33	± 20%	100KHz	35	9.0
NLPH1770-470MT	47	± 20%	100KHz	40	7.5
NLPH1770-680MT	68	± 20%	100KHz	80	5.0
NLPH1770-820MT	82	± 20%	100KHz	105	4.5
NLPH1770-101MT	100	± 20%	100KHz	120	4.0

$I_{sat}$ : 饱和电流，加 $I_{sat}$ 时，电感值相绝对初始值下降 < 30%

$I_{sat}$ : Saturation Current, the current when the inductance becomes 30% lower than its initial value.

## • 包裝方式&amp;數量PACKAGING STYLE&amp;QUANTITY



型號 Part Number	卷盤REEL (PCS/REEL)	紙盒BOX (PCS/BOX)	紙箱Carton ( PCS/Carton)
NLPH2520	2000	6000	18000
NLPH0418	3000	9000	27000
NLPH0420	3000	9000	27000
NLPH0520	2000	6000	18000
NLPH0530	2000	6000	18000
NLPH0620	2000	6000	18000
NLPH0630	1500	4500	13500
NLPH0640	1000	3000	9000
NLPH0650	1000	3000	9000
NLPH1040	750	2250	6750
NLPH1050	750	2250	6750
NLPH1240	500	1500	4500
NLPH1250	500	1500	4500
NLPH1260	400	1200	3600
NLPH1270	400	1200	3600
NLPH1770	300	900	2700

注：本规格书仅供参考，内容若有更改，恕不另行通知，以最新版本为准！

Note: This specification is for reference only. Contents are subject to change without notice, the latest version prevails