

## 大功率电感 GDSLPG 系列

### High power inductor GDSLPG series

#### 特征 FEATURES

- ◆ 磁屏蔽结构
- ◆ 大电流,低DCR
- ◆ 复合结构,选材灵活
- ◆ 超低嗡嗡声噪音
- ◆ 工作温度高达150°C
- ◆ 在不饱和的情况下处理高瞬态电流峰值

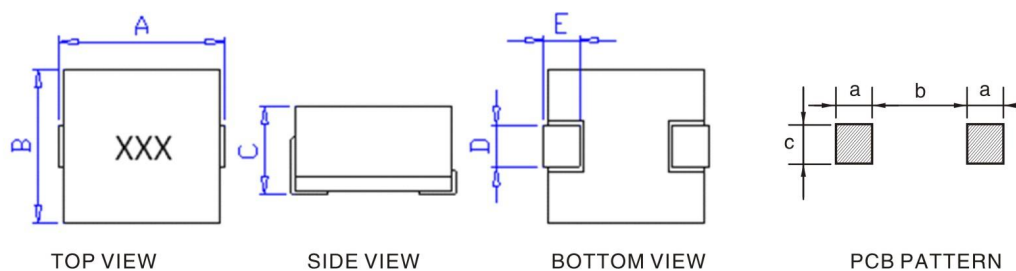


#### 用途 APPLICATIONS

- ◆ 适用于笔记本电脑、服务器、DC-DC 转换器。

#### 外观尺寸 Extrenal Dimension

注：XXX 表示印字



Unit: mm

Series	A	B	C	D	E	a	b	c
GDSLPG0704	7.2 ± 0.3	6.9 ± 0.3	4.0 max	1.2 ± 0.3	1.8 ± 0.3	2.7	2.4	2.2
GDSLPG0705	7.2 ± 0.3	6.9 ± 0.3	5.0 max	1.2 ± 0.3	1.8 ± 0.3	2.7	2.4	2.2
GDSLPG1005	10.5 ± 1.0	10.2 ± 0.5	5.0 max	2.0 ± 0.5	2.5 ± 1.0	3.8	3.8	4.0
GDSLPG1306	13.0 ± 0.5	12.7 ± 0.5	6.5 max	3.5 ± 0.3	3.0 ± 0.5	4.8	4.9	5.0
GDSLPG1307	13.0 ± 0.5	12.7 ± 0.5	7.8 max	3.5 ± 0.3	3.0 ± 0.5	4.8	4.9	5.0
GDSLPG1809	19.3max	18.2 ± 0.5	9.2 max	4.2 ± 0.5	4.5 ± 1.0	6.0	7.3	6.0
GDSLPG2212	22 ± 1.0	22 ± 1.0	12.4 max	3.5 ± 1.0	5.5 ± 1.0	7.0	9.5	5.5

#### 规格命名 SPECIFICATION NAMED

GDSLPG 0704 - 1R0 M  
① ② ③ ④

- ① 产品系列 Product Symbol
- ② 产品尺寸 Dimensions
- ③ 标称电感量：1R0 表示 1.0 μH
- ④ 公差：K 表示 ±10%，M 表示 ±20%，N 表示 ±30%

**规格特性 SPECIFICATIONS**

**GDSLPG 0704 系列**

Part Number 型号	Inductance 电感量	DC Resistance 直流电阻	Temperature Rise Current 温升电流	Saturation Current 饱和电流
Units 单位	μH	mΩ	Amp	Amp
Symbol 符号	L	DCR	I <sub>rms</sub>	I <sub>sat</sub>
GDSLPG0704-R33M	0.33 ± 20%	2.31	20	36
GDSLPG0704-R47M	0.47 ± 20%	2.31	20	26
GDSLPG0704-R68M	0.68 ± 20%	3.41	17	20
GDSLPG0704-1R0M	1.00 ± 20%	5.06	15	19
GDSLPG0704-1R5M	1.50 ± 20%	7.26	12	14
GDSLPG0704-2R2M	2.20 ± 20%	12.54	9	12

**GDSLPG 0705 系列**

Part Number 型号	Inductance 电感量	DC Resistance 直流电阻	Temperature Rise Current 温升电流	Saturation Current 饱和电流
Units 单位	μH	mΩ	Amp	Amp
Symbol 符号	L	DCR	I <sub>rms</sub>	I <sub>sat</sub>
GDSLPG0705-1R0M	1.0 ± 20%	3.08	13	20
GDSLPG0705-1R5M	1.5 ± 20%	4.40	11	13
GDSLPG0705-2R0M	2.0 ± 20%	6.44	9	12
GDSLPG0705-3R3M	3.3 ± 20%	9.90	8	9
GDSLPG0705-4R7M	4.7 ± 20%	15.95	7	7
GDSLPG0705-6R5M	6.5 ± 20%	20.09	6	6

**GDSLPG 1005 系列**

Part Number 型号	Inductance 电感量	DC Resistance 直流电阻	Temperature Rise Current 温升电流	Saturation Current 饱和电流
Units 单位	μH	mΩ	Amp	Amp
Symbol 符号	L	DCR	I <sub>rms</sub>	I <sub>sat</sub>
GDSLPG1005-1R8M	1.8 ± 20%	3.85	11	18
GDSLPG1005-4R7M	4.7 ± 20%	10.00	7.8	12
GDSLPG1005-6R8M	6.8 ± 20%	12.00	7.2	12
GDSLPG1005-150M	15.0 ± 20%	34.00	4.2	7.5



### GDSLPG 1306 系列

Part Number 型号	Inductance 电感量	DC Resistance 直流电阻	Temperature Rise Current 温升电流	Saturation Current 饱和电流
Units 单位	$\mu\text{H}$	m $\Omega$	Amp	Amp
Symbol 符号	L	DCR	I <sub>rms</sub>	I <sub>sat</sub>
GDSLPG1306-R40M	0.40 $\pm$ 20%	0.80	38	60
GDSLPG1306-R45M	0.45 $\pm$ 20%	0.85	35	60
GDSLPG1306-R80M	0.80 $\pm$ 20%	1.43	35	55
GDSLPG1306-1R0M	1.0 $\pm$ 20%	2.00	32	35
GDSLPG1306-1R5M	1.5 $\pm$ 20%	2.10	30	30
GDSLPG1306-2R0M	2.0 $\pm$ 20%	2.90	24	36
GDSLPG1306-2R5M	2.5 $\pm$ 20%	4.20	20	32
GDSLPG1306-2R8M	2.8 $\pm$ 20%	4.20	20	40
GDSLPG1306-3R3M	3.3 $\pm$ 20%	5.30	16	28
GDSLPG1306-4R7M	4.7 $\pm$ 20%	7.15	14	25
GDSLPG1306-6R0M	6.0 $\pm$ 20%	9.24	12	18
GDSLPG1306-7R3M	7.3 $\pm$ 20%	9.20	12	12

### GDSLPG 1307 系列

Part Number 型号	Inductance 电感量	DC Resistance 直流电阻	Temperature Rise Current 温升电流	Saturation Current 饱和电流
Units 单位	$\mu\text{H}$	m $\Omega$	Amp	Amp
Symbol 符号	L	DCR	I <sub>rms</sub>	I <sub>sat</sub>
GDSLPG1307-R80M	0.8 $\pm$ 20%	1.02	37	60
GDSLPG1307-1R5M	1.5 $\pm$ 20%	1.30	35	39
GDSLPG1307-2R2M	2.2 $\pm$ 20%	1.79	27	30
GDSLPG1307-3R3M	3.3 $\pm$ 20%	3.30	21	32
GDSLPG1307-100M	10.0 $\pm$ 20%	8.14	14	13

### GDSLPG 1809 系列

Part Number 型号	Inductance 电感量	DC Resistance 直流电阻	Temperature Rise Current 温升电流	Saturation Current 饱和电流
Units 单位	$\mu\text{H}$	m $\Omega$	Amp	Amp
Symbol 符号	L	DCR	I <sub>rms</sub>	I <sub>sat</sub>
GDSLPG1809-1R9M	1.9 $\pm$ 20%	1.40	33	65
GDSLPG1809-4R7M	4.7 $\pm$ 20%	2.85	24	40
GDSLPG1809-5R6M	5.6 $\pm$ 20%	3.55	23	35

**GDSLPG 1809 系列**

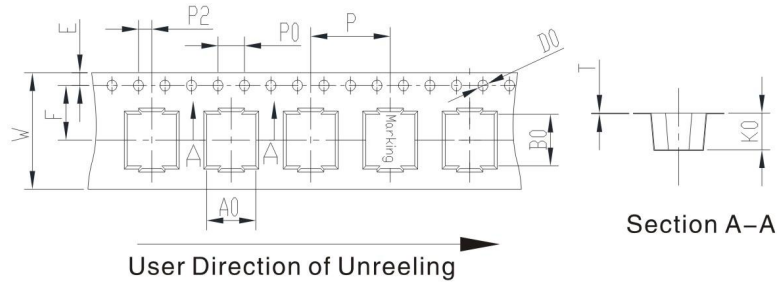
Part Number 型号	Inductance 电感量	DC Resistance 直流电阻	Temperature Rise Current 温升电流	Saturation Current 饱和电流
Units 单位	$\mu$ H	m $\Omega$	Amp	Amp
Symbol 符号	L	DCR	Irms	Isat
GDSLPG1809-6R0M	6.0 $\pm$ 20%	3.55	22	35
GDSLPG1809-6R8M	6.8 $\pm$ 20%	4.51	21	32

**GDSLPG 2212 系列**

Part Number 型号	Inductance 电感量	DC Resistance 直流电阻	Temperature Rise Current 温升电流	Saturation Current 饱和电流
Units 单位	$\mu$ H	m $\Omega$	Amp	Amp
Symbol 符号	L	DCR	Irms	Isat
GDSLPG2212-4R7M	4.7 $\pm$ 20%	1.65	30	39
GDSLPG2212-6R8M	6.8 $\pm$ 20%	2.31	29	40
GDSLPG2212-120M	12.0 $\pm$ 20%	2.31	29	30

- Note: 1. Initial Inductance: 100 KHz, 1.0Vrms at 25 °C ambient.  
 2. DC Resistance: At 25 °C ambient.  
 3. Temperature Rise Current: DC current for an approximate temperature rise of 40 °C without core loss.  
 4. Saturation current: DC current for approximately 25% rolloff at 25 °C ambient.

**包装规格 PACKAGING DIMENSIONS**



P / N	A0	B0	W	P	T	K0	D0	E	F	P0	P2	Chip / Reel
	typ	typ	$\pm$ 0.3	$\pm$ 0.1	$\pm$ 0.1	typ	$\pm$ 0.1	$\pm$ 0.1	$\pm$ 0.1	$\pm$ 0.1	$\pm$ 0.1	
GDSLPG0704	7.3	7.3	16	12	0.35	5.3	1.50	1.75	7.5	4.00	2.00	1000
GDSLPG0705	7.3	7.3	16	12	0.35	5.3	1.50	1.75	7.5	4.00	2.00	1000
GDSLPG1005	11.3	12	24	16	0.35	6.3	1.50	1.75	11.5	4.00	2.00	800
GDSLPG1306	13.15	12.9	24	20	0.4	6.8	1.50	1.75	11.5	4.00	2.00	400
GDSLPG1307	13.4	13.4	24	20	0.4	8.3	1.50	1.75	11.5	4.00	2.00	400
GDSLPG1809	18.6	18.6	32	24	0.4	9.4	1.50	1.75	14.2	4.00	2.00	250
GDSLPG2212	22.1	20.6	32	32	0.5	12.5	1.50	1.75	14.2	4.00	2.00	150