SMD Power Inductor(MPIL Series) 贴片功率电感 MPIL 系列

FEATURES 特点

- low profile, low RDC, high current handling capacities
  小尺寸、低直流电阻、高电流
- Magnetically shielded structure that ensures the high-density mounting configurations.
  高密度封装的磁屏蔽结构
- Flat bottom surface ensures secure, reliable mounting.
  平坦焊面便于安装
- Provided in embossed carrier tape packaging for use with automatic mounting machines. 编带包装便于自动贴装

APPLICATIONS 应用

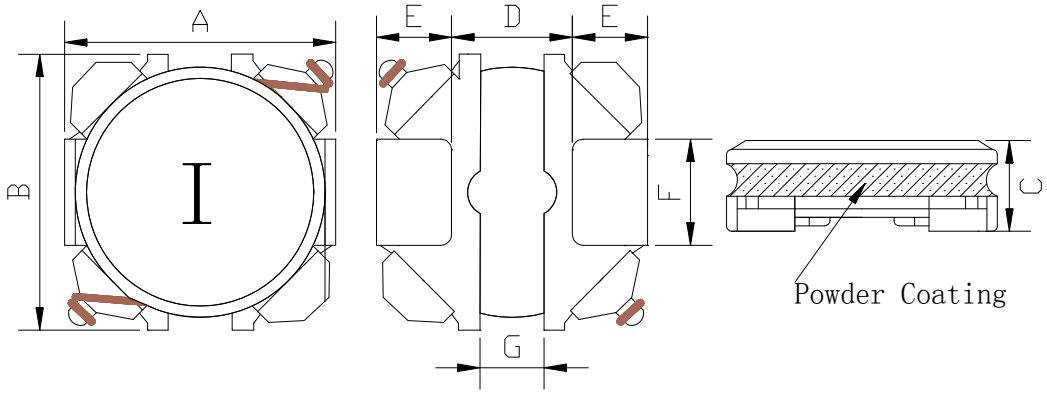
- Ideally used in Portable telephones, , PDA, DSC, DC-DC Converters, etc.
  用于手机、掌上电脑、数字信号控制器，DC-DC 转换等。

Product Identification 产品标识

HPIL 3015 - 3R3 M LF
① ② ③ ④ ⑤

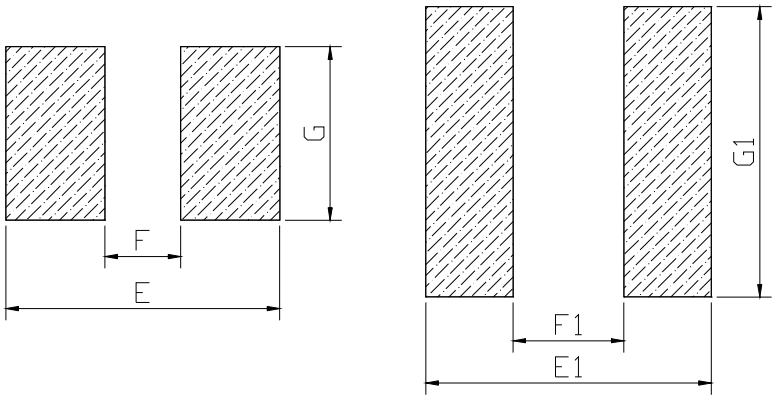
① Series name 系列名称
② Product dimensions 产品尺寸： (3015=3.0*2.9*1.5 mm)
③ Inductance Value 电感量： (R68=0.68uH 3R3=3.3uH 100=10uH)
④ Inductance Tolerance 电感量公差：(M:20% ; N:30%)
⑤ Lead free products 无铅产品

Shapes And Dimensions 外形及尺寸示意图



Series	Dimensions(mm)						
	A	B	C Max.	D Ref.	E Ref.	F Ref.	G Ref.
HPIL3010	3.0±0.2	2.9±0.2	1.0	1.5	0.76	1.2	0.7
HPIL3015	3.0±0.2	2.9±0.2	1.5	1.5	0.76	1.2	0.7

Recommended Footprint 焊位示意图



Series	Dimensions(mm)					
	E ref.	E1 ref.	F ref.	F1 ref.	G ref.	G1 ref.
HPIL30 Series	3.4	3.2	1.4	0.6	1.6	3.3

Electrical Characteristics 电气性能

HPIL3010 Series

Part Number	L (uH)	Tolerance (±%)	Rdc ±20%(mΩ)	Idc Typ. (mA)		Marking
				L↓30%	T ↑40℃	
HPIL3010-1R0 □-LF	1.00	30	64	1500	1700	A
HPIL3010-1R2 □-LF	1.20	30	72	1300	1600	B
HPIL3010-1R5 □-LF	1.50	30	86	1100	1450	C
HPIL3010-2R2 □-LF	2.20	30	120	950	1250	E
HPIL3010-3R3 □-LF	3.30	30	170	800	1000	G
HPIL3010-3R9 □-LF	3.90	30	200	700	900	H
HPIL3010-4R7 □-LF	4.70	20	250	650	850	I
HPIL3010-5R6 □-LF	5.60	20	300	600	780	J
HPIL3010-6R8 □-LF	6.80	20	350	550	700	K
HPIL3010-8R2 □-LF	8.20	20	400	500	650	L
HPIL3010-100 □-LF	10.0	20	490	450	600	M
HPIL3010-150 □-LF	15.0	20	680	380	500	O
HPIL3010-220 □-LF	22.0	20	1000	330	400	Q

Electrical Characteristics 电气性能

HPIL3015Series

Part Number	L (uH)	Tolerance (±%)	Rdc ±20%(mΩ)	Idc Typ. (mA)		Marking
				L↓30%	T ↑40℃	
HPIL3015-R68 □-LF	0.68	30	38	3400	2000	8
HPIL3015-1R0 □-LF	1.00	30	44	3000	1850	A
HPIL3015-1R2 □-LF	1.20	30	55	2500	1700	B
HPIL3015-1R5 □-LF	1.50	30	71	2200	1550	C
HPIL3015-1R8 □-LF	1.80	30	79	2000	1450	D
HPIL3015-2R2 □-LF	2.20	20	99	1900	1350	E
HPIL3015-2R7 □-LF	2.70	20	110	1700	1300	F
HPIL3015-3R3 □-LF	3.30	20	120	1600	1250	G
HPIL3015-4R7 □-LF	4.70	20	180	1300	1050	I
HPIL3015-5R6 □-LF	5.60	20	200	1200	1000	J
HPIL3015-6R8 □-LF	6.80	20	220	1100	950	K
HPIL3015-100 □-LF	10.0	20	330	950	750	M
HPIL3015-150 □-LF	15.0	20	540	700	600	O
HPIL3015-220 □-LF	22.0	20	780	650	420	Q
HPIL3015-470 □-LF	47.0	20	1680	400	260	U

1. L , Idc: Agilent/HP 4284A , 100KHz with 0.1V.
3. Rdc : DIGITAL MILLIOHM METER Chroma 16502, or equivalent.
4. IDC1： Based on inductance change (△L/Lo： ≦－30%) @ ambient temp. 25℃
   IDC2： Based on temperature rise (△T： 40℃ TYP.)
5. Operating temperature range from -25°C to 85°C.