



## PBO-M 系列功率电感 PBO-M Series SMD Power Inductors



### 特征 FEATURES

- 大电流, 锰锌材质
- 适合于表面贴装, 适合于回流焊
- 可根据客户要求设计
- High saturation current, Mn-Zn materials
- SMT type, suitable for solder reflow
- Design according to customer requirements

### 应用 APPLICATIONS

- 移动通信, 笔记本电脑
- LCD 电视
- DC/DC 转换
- Portable communication equipment, Notebook Computer
- LCD television
- DC/DC converters

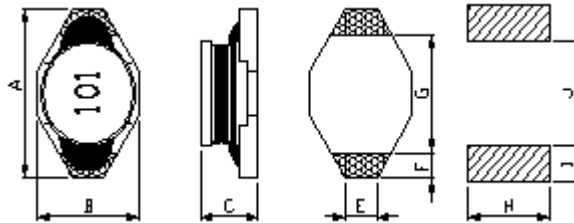
### 产品规格型号表示方法 ORDERING CODE

PBO	1608	M	—	150	M	T
①	②	③		④	⑤	⑥

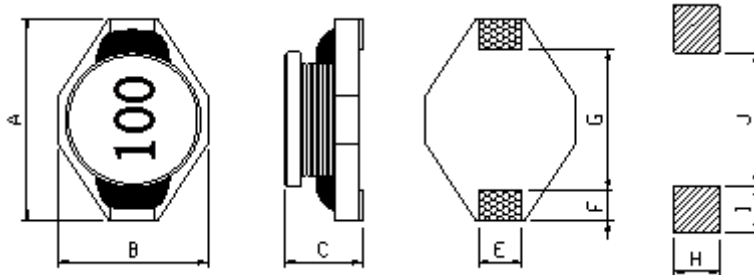
①		②		③	④		⑤		⑥	
产品代号 Code		规格尺寸 Dimensions (L×W×T) (mm)		锰锌材质 Mn-Zn materials	感量(μH) Inductance		误差 Tolerance		包装方式 Packaging Style	
PBO-M	PBO-M 系列 功率电感	1608M	6.40×4.10×2.6		150	15	K	±10%	T	Tape&Reel
		3316M	12.70×9.20×5.0		101	100	M	±20%	B	Bulk
		5022M	18.10×14.10×6.8		102	1000				

### 外形尺寸 Dimensions

单位(Unit): mm



PBO1608M



PBO3316M PBO5022M

型号 Part	A	B	C	E	F	G	H	I	J
PBO1608M	6.40±0.3	4.10±0.3	2.60±0.3	1.27	1.02	4.32	3.56	1.40	4.06
PBO3316M	12.70±0.3	9.20±0.3	5.00±0.3	2.52	2.54	7.62	2.79	2.92	7.37



PBO5022M	18.20±0.3	14.10±0.3	6.80±0.3	2.54	2.54	12.70	2.79	2.92	12.45
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## 电性能参数 Electrical Characteristics

### PBO1608M Series

Part Number	Inductance (μH)	Tolerance	Test Freq.	DCR (Ω)Max	SRF (MHz)	Isat (A)	Irms (A)
PBO1608M-1R0MT	1.0	±20%	100kHz	0.05	130	2.90	2.70
PBO1608M-1R5MT	1.5	±20%	100kHz	0.06	115	2.60	2.65
PBO1608M-2R2MT	2.2	±20%	100kHz	0.07	100	2.30	2.55
PBO1608M-2R7MT	2.7	±20%	100kHz	0.08	75	2.10	2.45
PBO1608M-3R3MT	3.3	±20%	100kHz	0.08	70	2.00	2.20
PBO1608M-4R7MT	4.7	±20%	100kHz	0.09	50	1.50	1.90
PBO1608M-6R8MT	6.8	±20%	100kHz	0.13	45	1.20	1.60
PBO1608M-8R2MT	8.2	±20%	100kHz	0.16	40	1.15	1.55
PBO1608M-100MT	10	±20%	100kHz	0.16	35	1.10	1.50
PBO1608M-150MT	15	±20%	100kHz	0.23	30	0.90	1.25
PBO1608M-220MT	22	±20%	100kHz	0.37	20	0.70	0.95
PBO1608M-330MT	33	±20%	100kHz	0.51	15	0.58	0.80
PBO1608M-470MT	47	±20%	100kHz	0.64	14	0.50	0.70
PBO1608M-680MT	68	±20%	100kHz	0.86	11	0.40	0.60
PBO1608M-101MT	100	±20%	100kHz	1.27	9	0.31	0.50
PBO1608M-151MT	150	±20%	100kHz	2.00	6	0.27	0.39
PBO1608M-221MT	220	±20%	100kHz	3.11	5.5	0.22	0.31
PBO1608M-331MT	330	±20%	100kHz	3.80	5	0.18	0.30
PBO1608M-471MT	470	±20%	100kHz	5.06	4	0.16	0.26
PBO1608M-681MT	680	±20%	100kHz	9.20	3	0.14	0.19
PBO1608M-102MT	1000	±20%	100kHz	13.8	2	0.10	0.15

### PBO3316M Series

Part Number	Inductance (μH)	Tolerance	Test Freq.	DCR (Ω)Max	SRF (MHz)	Isat (A)	Irms (A)
PBO3316M-1R0MT	1.0	±20%	100kHz	0.009	100	9.0	6.8
PBO3316M-1R5MT	1.5	±20%	100kHz	0.010	90	8.0	6.4
PBO3316M-2R2MT	2.2	±20%	100kHz	0.012	80	7.0	6.1
PBO3316M-3R3MT	3.3	±20%	100kHz	0.015	65	6.4	5.4
PBO3316M-4R7MT	4.7	±20%	100kHz	0.018	45	5.4	4.8
PBO3316M-6R8MT	6.8	±20%	100kHz	0.027	38	4.6	4.4
PBO3316M-100MT	10	±20%	100kHz	0.038	30	3.8	3.9
PBO3316M-150MT	15	±20%	100kHz	0.046	27	3.0	3.1
PBO3316M-220MT	22	±20%	100kHz	0.085	19	2.3	2.7
PBO3316M-330MT	33	±20%	100kHz	0.10	15	2.0	2.1
PBO3316M-470MT	47	±20%	100kHz	0.14	12	1.6	1.8
PBO3316M-680MT	68	±20%	100kHz	0.20	10	1.4	1.5



PBO3316M-101MT	100	±20%	100kHz	0.28	9	1.2	1.3
PBO3316M-151MT	150	±20%	100kHz	0.40	6	1.0	1.0
PBO3316M-221MT	220	±20%	100kHz	0.61	5	0.8	0.8
PBO3316M-331MT	330	±20%	100kHz	1.02	4.5	0.6	0.6
PBO3316M-471MT	470	±20%	100kHz	1.27	3.5	0.5	0.5
PBO3316M-681MT	680	±20%	100kHz	2.02	2.5	0.4	0.4
PBO3316M-102MT	1000	±20%	100kHz	3.00	2.0	0.3	0.3

### PBO5022M Series

Part Number	Inductance (μH)	Tolerance	Test Freq.	DCR (Ω)Max	SRF (MHz)	Isat (A)	Irms (A)
PBO5022M-1R0MT	1.0	±20%	100kHz	0.009	80	27.6	8.6
PBO5022M-2R2MT	2.2	±20%	100kHz	0.014	80	18.5	7.1
PBO5022M-3R3MT	3.3	±20%	100kHz	0.018	60	14.5	6.2
PBO5022M-5R6MT	5.6	±20%	100kHz	0.020	40	12.5	5.3
PBO5022M-8R2MT	8.2	±20%	100kHz	0.029	30	10.3	4.8
PBO5022M-100MT	10	±20%	100kHz	0.031	30	9.4	4.3
PBO5022M-150MT	15	±20%	100kHz	0.036	22	7.5	4.0
PBO5022M-220MT	22	±20%	100kHz	0.047	20	6.5	3.5
PBO5022M-330MT	33	±20%	100kHz	0.066	15	5.2	3.0
PBO5022M-470MT	47	±20%	100kHz	0.086	9	4.2	2.6
PBO5022M-680MT	68	±20%	100kHz	0.130	8	3.7	2.3
PBO5022M-101MT	100	±20%	100kHz	0.190	7	3.0	1.8
PBO5022M-151MT	150	±20%	100kHz	0.250	6	2.5	1.5
PBO5022M-221MT	220	±20%	100kHz	0.380	5	2.0	1.2
PBO5022M-331MT	330	±20%	100kHz	0.560	4	1.7	1.0
PBO5022M-471MT	470	±20%	100kHz	0.850	3	1.5	0.82
PBO5022M-681MT	680	±20%	100kHz	1.100	2.5	1.2	0.72
PBO5022M-102MT	1000	±20%	100kHz	1.800	2	0.95	0.56

测试条件: 100KHz 0.1Vrms.

Test Conditions: 100KHz, 0.1Vrms.

Isat: 饱和电流, 加 Isat 时, 电感量≤10%

Isat: Saturation Current, the current when the inductance becomes 10% lower than its initial value.

Irms: 温升电流, 加 I rms 时, 器件温度升高≤40℃

Irms: Temperature Rise Current, the current when temperature of coil increases up to 40℃.