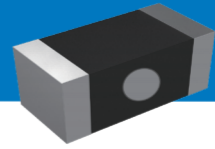


叠层片式功率电感—MPHM 系列

Multilayer Chip Power Inductor –MPHM Series



工作温度 Operating Temp

- ◆ -55°C ~ +125°C (Including self-heating)

特征 Features

- ◆ Mark 标识
- ◆ 良好的磁屏蔽，低漏磁
- ◆ 迭层独石结构、高可靠性
- ◆ 良好的可焊性和耐焊性
- ◆ With mark on body
- ◆ No cross coupling due to magnetic shielded
- ◆ Monolithic structure for high reliability
- ◆ Excellent solderability and high heat resistance

用途 Applications

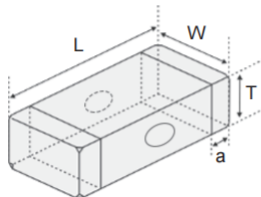
- ◆ 蓝牙模块、TWS 耳机
- ◆ Bluetooth modules and TWS earphones

产品型号 Product Identification

1	2	3	4	5	6	7
MPHM	160809	S	1R0	□	T	□□□

1	分类 Type	2	外形尺寸 (L×W×H) (mm) External Dimensions (L×W×H) (mm)	3	特性类别 Feature Type
	MPHM 片式功率电感 Chip Power Inductor		160809 1.6×1.0×1.0		S 标准型 Standard
4	公称电感量 Nominal Inductance	5	电感公差 Inductance Tolerance	6	包装 Packing
	Example Nominal Value		M ±20% N ±30%		T 编带 Tape & Reel
	1R0 1.0μH 4R7 4.7μH			7	设计代号 Design Code
					□□□ Design Code

外观尺寸 Shape and Dimensions



Unit mm [inch]				
Type	L	W	T	a
160809	1.60±0.15 [.063±.006]	1.0±0.15 [.039±.006]	1.0±0.15 [.039±.006]	0.3±0.2 [.012±.008]

规格特性 Specifications

MPHM160809_Y02 TYPE

型号 Part Number	电感量 Inductance	L 测试频率 L Test Freq.	直流电阻 DC Resistance		自谐频率 Min. Self-resonant Frequency	饱和电流 Saturation Current		温升电流 Heat Rating Current Max.	厚度 Thickness
单位 Units	μH	MHz	Ω		MHz	mA		mA	mm [inch]
符号 Symbol	L	Freq.	DCR		S.R.F	Isat		Irms	T
			Max.	Typ.		Max.	Typ.		
MPHM160809S1R0 □ TY02	1.0	1	0.190	0.170	110	750	950	1100	1.0±0.15 [.039±.006]
MPHM160809S2R2 □ TY02	2.2	1	0.350	0.280	70	480	550	900	
MPHM160809S4R7 □ TY02	4.7	1	0.420	0.525	55	320	360	700	
MPHM160809S100 □ TY02	10	1	1.400	1.150	25	220	240	280	

MPHM160809_Y03 TYPE

型号 Part Number	电感量 Inductance	L 测试频率 L Test Freq.	直流电阻 DC Resistance		自谐频率 Min. Self-resonant Frequency	饱和电流 Saturation Current		温升电流 Heat Rating Current Max.	厚度 Thickness
单位 Units	μH	MHz	Ω		MHz	mA		mA	mm [inch]
符号 Symbol	L	Freq.	DCR		S.R.F	Isat		Irms	T
			Max.	Typ.		Max.	Typ.		
MPHM160809S2R2 □ TY03	2.2	1	0.550	0.450	70	800	1100	500	1.0±0.15 [.039±.006]
MPHM160809S4R7 □ TY03	4.7	1	1.050	0.900	55	550	750	350	
MPHM160809S100 □ TY03	10	1	1.800	1.500	30	320	400	350	

※:请注明电感公差代码 (M=±20%, N=±30%);

※□ Please specify the inductance tolerance code (M=±20%, N=±30%);

※额定电流: 以饱和电流和温升电流中较小者为标准;

※Rated current: Isat or Irms, whichever is smaller;

※饱和电流: 使电感值从初始状态下下降约30%的直流电流值;

※Isat: DC current at which the inductance drops approximate 30% from its value without current;

※温升电流: 使产品表面温度从20°C升高 (ΔT=40°C) 的直流电流值。

※Irms: DC current that causes the temperature rise (ΔT=40°C) from 20°C ambient.