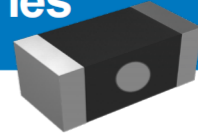


Multilayer Chip Power Inductor –MPHM Series



Operating temp. : -55°C ~+125°C (Including self-heating)

FEATURES

- ◆ With mark on body
- ◆ No cross coupling due to magnetic shielded
- ◆ Monolithic structure for high reliability
- ◆ Excellent solderability and high heat resistance

APPLICATIONS

- ◆ Bluetooth modules and TWS earphones

PRODUCT IDENTIFICATION

1 MPHM	2 160809	3 S	4 1R0	5 <input type="checkbox"/>	6 T	7 <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
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1 Type	
MPHM	Chip Power Inductor

2 External Dimensions (L×W) (mm)	
160809	1.6×1.0×1.0

3 Feature Type	
S	Standard

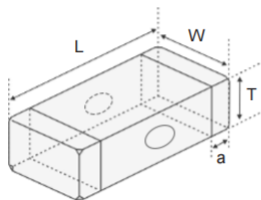
4 Nominal Inductance	
Example	Nominal Value
1R0	1.0μH
4R7	4.7μH

5 Inductance Tolerance	
M	±20%
N	±30%

6 Packing	
T	Tape & Reel

7 Design Code	
<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	Design Code

SHAPE AND DIMENSIONS



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]

Unit: mm [inch]

SPECIFICATIONS MPHM160809_Y01 TYPE

Part Number	Inductance	L Test Freq.	DC Resistance		Min. Self-resonant Frequency	Saturation Current		Heat Rating Current Max.	Thickness
Units	μH	MHz	Ω		MHz	mA		mA	mm [inch]
Symbol	L	Freq.	DCR		S.R.F	Isat		Irms	T
			Max.	Typ.		Max.	Typ.		
MPHM160809S1R0 □ TY01	1.0	1	0.237	0.190	110	700	750	750	1.0±0.15 [.039±.006]
MPHM160809S2R2 □ TY01	2.2	1	0.500	0.400	70	480	520	550	
MPHM160809S4R7 □ TY01	4.7	1	0.750	0.600	55	320	360	450	
MPHM160809S6R8 □ TY01	6.8	1	1.150	0.900	40	250	300	350	
MPHM160809S100 □ TY01	10	1	1.500	1.200	30	220	240	280	

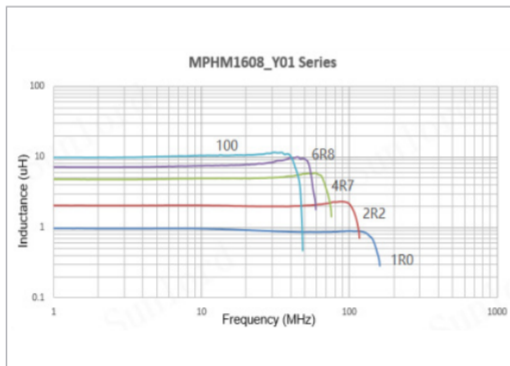
MPHM160809_Y02 TYPE

Part Number	Inductance	L Test Freq.	DC Resistance		Min. Self-resonant Frequency	Saturation Current		Heat Rating Current Max.	Thickness
Units	μH	MHz	Ω		MHz	mA		mA	mm [inch]
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	

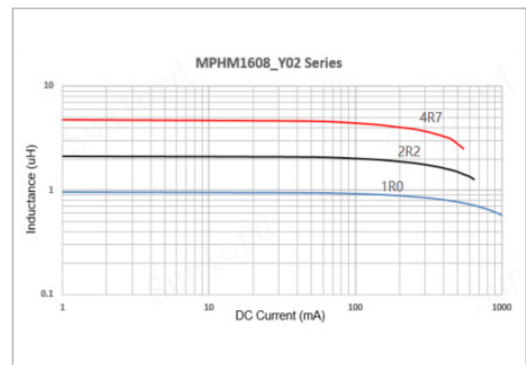
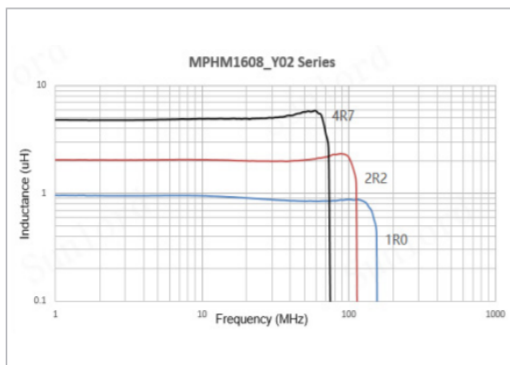
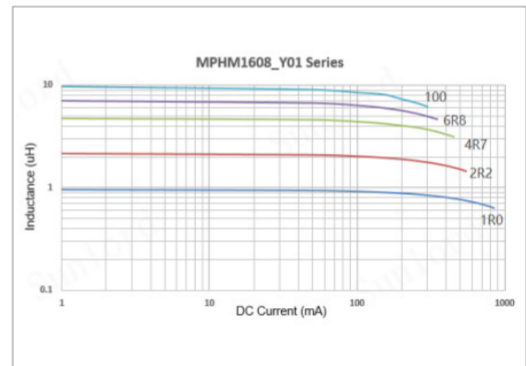
- ※ □: Please specify the inductance tolerance code (M=±20%, N=±30%);
- ※ Rated current: Isat or Irms, whichever is smaller;
- ※ Isat: DC current at which the inductance drops approximate 30% from its value without current;
- ※ Irms: DC current that causes the temperature rise ($\Delta T=40^{\circ}\text{C}$) from 20°C ambient.

TYPICAL ELECTRICAL CHARACTERISTICS

Inductance vs. Frequency Characteristics



Inductance vs. DC Current Characteristics



单击下面可查看定价，库存，交付和生命周期等信息

[>>Sunlord\(顺络\)](#)