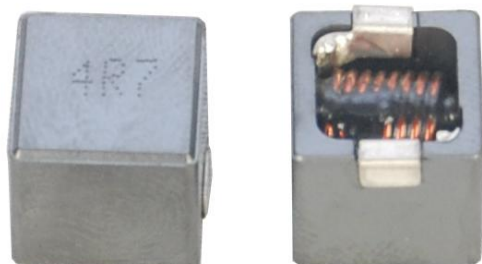




产品概要 Outline

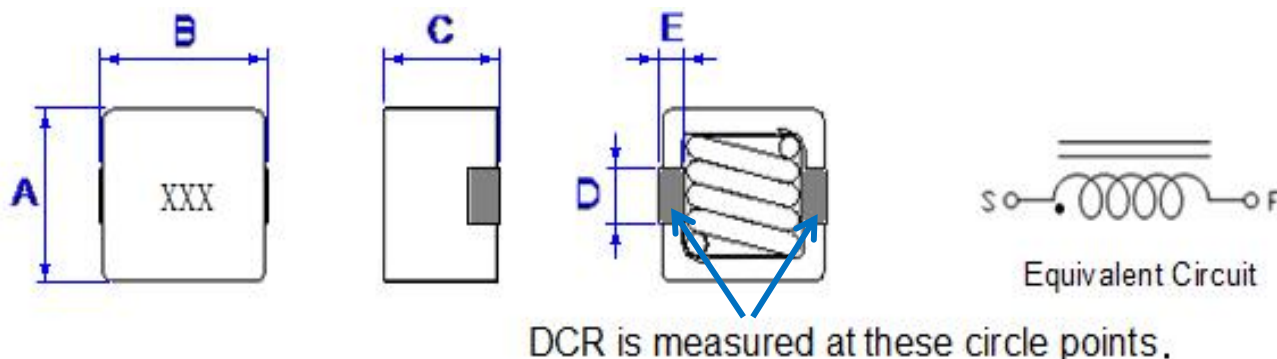


- 用于DC/DC转换器滤波器扼流圈。  
Filter choke for DC/DC converter
- 采用磁屏蔽结构  
Magnetic shield structure is adopted
- 优异的饱和特性。  
Excellent saturation characteristics
- 电流能力高达 **27 A**  
Current capability up to 27 A

- 工作温度：-40℃~+125℃（包含线圈发热）  
Operating temperature:-40℃~+125℃(Including coil's temperature rise)

外观尺寸 Appearance and Dimensions (mm)

电气原理图 Schematic



系列 \ 尺寸	A	B	C	D	E		Packing Pcs/Reel
HSMD0807	7.9±0.4	8.4±0.4	7.2±0.4	2.3±0.2	1.5±0.2		500
HSMD1009	10.0±0.4	10.9±0.4	9.3±0.4	3.0±0.2	1.6±0.2		400
HSMD1210	11.4±0.4	12.1±0.4	9.5±0.4	3.5±0.2	2.0±0.2		300

电气特性 Electrical Characteristics

产品型号 Part Number	电感值 Inductance (uH) ±20%	直流电阻 D. C. R(mΩ)		温升电流 Irms (A)	饱和电流 Isat (A)	Würth P/N
		Typ	MAX			
HSMD0807-R30M	0.30	2.30	2.70	20.5	36.0	7443340030
HSMD0807-R47M	0.47	2.65	3.10	19.0	32.0	7443340047
HSMD0807-R56M	0.56	2.65	3.10	19.0	28.0	
HSMD0807-R68M	0.68	2.65	3.10	19.0	23.5	7443340068
HSMD0807-R82M	0.82	3.60	3.90	17.0	23.0	
HSMD0807-1R0M	1.00	3.60	3.90	17.0	24.0	7443340100
HSMD0807-1R5M	1.50	5.30	5.60	16.5	18.5	7443340150
HSMD0807-2R2M	2.20	5.30	5.60	16.5	12.5	7443340220
HSMD0807-3R3M	3.30	7.50	8.20	14.0	8.5	7443340330
HSMD0807-4R7M	4.70	12.70	13.50	7.5	8.0	7443340470

HSMD0807-6R8M	6.80	23.30	24.00	5.5	7.5	7443340680
HSMD0807-100M	10.00	38.50	41.00	4.4	7.0	7443341000

HSMD1009-R22M	0.22	1.40	1.60	21.5	60.0	7443330022
HSMD1009-R33M	0.33	1.40	1.60	21.5	55.0	7443330033
HSMD1009-R47M	0.47	1.60	1.85	20.5	47.0	7443330047
HSMD1009-R68M	0.68	2.15	2.65	20.5	38.0	7443330068
HSMD1009-R82M	0.82	2.15	2.65	20.0	36.0	7443330082
HSMD1009-1R0M	1.00	2.15	2.65	20.0	27.5	7443330100
HSMD1009-1R5M	1.50	3.35	4.00	18.0	27.0	7443330150
HSMD1009-2R2M	2.20	4.60	4.80	16.5	22.0	7443330220
HSMD1009-3R3M	3.30	6.50	7.15	14.0	15.5	7443330330
HSMD1009-4R7M	4.70	9.40	9.90	13.0	15.0	7443330470
HSMD1009-6R8M	6.80	14.15	15.00	11.5	11.0	7443330680
HSMD1009-8R2M	8.20	14.15	15.00	11.5	8.0	7443330820
HSMD1009-100M	10.00	22.75	23.10	9.0	8.0	7443331000

HSMD1210-R22M	0.22	1.10	1.50	27.0	60.0	7443320022
HSMD1210-R33M	0.33	1.10	1.50	27.0	55.0	7443320033
HSMD1210-R47M	0.47	1.35	1.85	26.0	48.0	7443320047
HSMD1210-R68M	0.68	1.35	1.85	26.0	38.0	7443320068
HSMD1210-R82M	0.82	1.85	2.50	24.0	36.0	7443320082
HSMD1210-1R0M	1.00	1.85	2.50	24.0	32.0	7443320100
HSMD1210-1R5M	1.50	2.95	3.50	19.5	27.0	7443320150
HSMD1210-2R2M	2.20	3.90	4.30	18.0	23.0	7443320220
HSMD1210-3R3M	3.30	5.20	5.70	17.0	17.0	7443320330
HSMD1210-4R7M	4.70	7.25	7.90	15.5	15.5	7443320470
HSMD1210-6R8M	6.80	10.15	11.00	13.0	13.0	7443320680
HSMD1210-8R2M	8.20	10.60	11.80	13.0	12.0	7443320820
HSMD1210-100M	10.00	15.35	16.70	9.0	10.0	7443321000

## 注意说明 Remark

- 所有数据基于环境温度25℃条件下测试。  
All data is tested based on 25℃ ambient temperature.
- 电感测试条件为1KHz, 0.25V。  
Inductance measure condition at 1kHz, 0.25V.
- 饱和电流：电感值下降其初始值的20%时所加载的实际直流电流值。  
Saturation current: the actual value of DC current when the inductance decrease 20% as its initial value.
- 温升电流：使产品温度上升到 $\Delta T40^{\circ}\text{C}$ 时所加载的实际电流值（ $T_a=25^{\circ}\text{C}$ ）。  
Temperature rise current: the actual value of DC current when the temperature rise is  $\Delta T40^{\circ}\text{C}$  ( $T_a=25^{\circ}\text{C}$ ).
- 特别提醒：线路设计，组件布局，印刷线路板（PWB）尺寸及厚度，散热系统等均会影响产品温度。请务必在最终应用时，验证产品发热状况。  
Special remind: Circuit design, component placement, PWB size and thickness, cooling system and etc. all will affect the product temperature. Please verify the product temperature in the final application.

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