

## SMD Power Inductor(MGSDRH3D Series) 贴片功率电感 MGSDRH3D 系列

### FEATURES 特点

- Excellent solderability and high heat resistance.  
良好的可焊性
- Low cost and packed in embossed carrier tape.  
低成本编带包装
- Magnetically shielded construction.  
磁屏蔽结构



### APPLICATIONS 应用

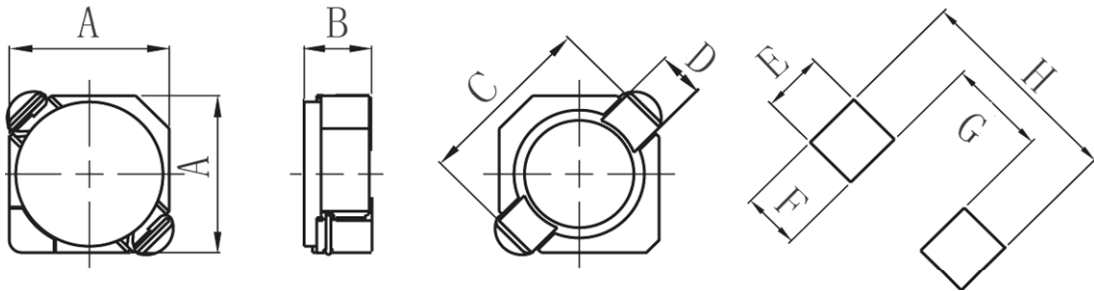
- Ideally used in Mobilephone,PDA,MP3,MDSC/DVC,Portable DVD, etc as DC-DC Converter.  
用于移动电话、PDA、MP3、影碟机、便携式DVD、DC-DC转换等。

### Product Identification 产品标识

MGSDRH    3D12    -    100    N    I : LF  
①            ②            ③        ④            ⑤        ⑥

- ① Series name 系列名称
- ② Product dimensions 产品尺寸:
- ③ Inductance Value 电感量: (3R3:3.3uH 100:10uH; 101:100uH)
- ④ Inductance Tolerance 电感量公差: (K:10%; M:20%; N:30% or 25%)
- ⑤ Package 包装: Tape & reel
- ⑥ Lead free products 无铅产品

### Shapes And Dimensions 外形及尺寸示意图



Series	Dimensions(mm)							
	A	B	C	D	E	F	G	H
MGSDRH3D12	4.00	1.40	4.40	1.10	1.50	1.40	2.40	5.20
MGSDRH3D16	4.00	1.80	4.40	1.10	1.50	1.40	2.40	5.20
MGSDRH3D16B	4.00	1.80	5.50	4.00	1.00	4.00	1.50	1.00
MGSDRH3D28	4.00	3.00	4.40	1.10	1.50	1.40	2.40	5.20

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### Electrical Characteristics 电气性能

#### MGSDRH3D12 Series

Part Number	L±20% ( $\mu$ H)	DCR max. (Ohms)	Isat (A)
MGSDRH3D12-1R0	1.0	87.00m	1.20
MGSDRH3D12-1R5	1.5	124.00m	1.10
MGSDRH3D12-1R8	1.8	142.00m	1.04
MGSDRH3D12-3R3	3.3	239.00m	800m
MGSDRH3D12-4R7	4.7	338.00m	730m
MGSDRH3D12-6R8	6.8	406.00m	640m
MGSDRH3D12-100	10	622.00m	495m
MGSDRH3D12-150	15	977.00m	425m
MGSDRH3D12-220	22	1.16	380m
MGSDRH3D12-330	33	1.90	315m
MGSDRH3D12-470	47	2.30	260m

#### MGSDRH3D16(B) Series

Part Number	L±20% ( $\mu$ H)	DCR max. (Ohms)	Isat (A)
MGSDRH3D16-1R0	1.0	45.50m	1.47
MGSDRH3D16-1R5	1.5	52.00m	1.45
MGSDRH3D16-2R2	2.2	72.00m	1.20
MGSDRH3D16-2R7	2.7	75.00m	1.18
MGSDRH3D16-3R3	3.3	85.00m	1.10
MGSDRH3D16-3R9	3.9	95.00m	1.00
MGSDRH3D16-4R7	4.7	105.00m	900m
MGSDRH3D16-5R6	5.6	119.60m	822m
MGSDRH3D16-6R8	6.8	170.00m	730m
MGSDRH3D16-8R2	8.2	190.00m	621m
MGSDRH3D16-100	10	210m	550m
MGSDRH3D16-120	12	247m	500m
MGSDRH3D16-150	15	295m	450m
MGSDRH3D16-180	18	416m	410m
MGSDRH3D16-220	22	430m	400m
MGSDRH3D16-270	27	546m	370m
MGSDRH3D16-330	33	675m	320m
MGSDRH3D16-390	39	871m	278m
MGSDRH3D16-470	47	962m	260m
MGSDRH3D16-560	56	1.09	242m
MGSDRH3D16-680	68	1.25	219m
MGSDRH3D16-820	82	1.50	200m

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Part Number	L±20% (uH)	DCR max. (Ohms)	Isat (A)
MGSDRH3D16-101	100	1.68	187m
MGSDRH3D16-121	120	2.15	178m
MGSDRH3D16-151	150	2.60	150m
MGSDRH3D16-181	180	2.86	138m
MGSDRH3D16-221	220	4.55	122m
MGSDRH3D16-271	270	5.07	105m
MGSDRH3D16-331	330	5.89	98m
MGSDRH3D16-391	390	6.50	96m
MGSDRH3D16-471	470	7.15	81m
MGSDRH3D16-561	560	9.75	70m
MGSDRH3D16-681	680	12.74	69m

### MGSDRH3D28 Series

Part Number	L±20% (uH)	DCR max. (Ohms)	Isat (A)
MGSDRH3D28-3R9	3.9	72.00m	1.85
MGSDRH3D28-4R7	4.7	89.00m	1.63
MGSDRH3D28-6R8	6.8	120.00m	1.24
MGSDRH3D28-100	10	145.00m	1.05
MGSDRH3D28-150	15	213.00m	900m
MGSDRH3D28-220	22	335.00m	740m
MGSDRH3D28-330	33	481.00m	580m
MGSDRH3D28-470	47	600.00m	480m

※ 测试条件:  $L \leq 8.2\mu\text{H}$  测试频率 100KHz / 0.25V, ( $N \pm 30\%$ );

$L > 8.2\mu\text{H}$  测试频率 1KHz / 0.25V, ( $M \pm 20\%$ );

※ 测试仪表: 502BC、CH1062。