

■ FEATURES

- Maximum power density.
- Modified standard products are available.
- Miniature surface mount design.

■ APPLICATIONS

- Notebook type PC
- Desk-top type PC
- DC/DC converter.
- On board power supply

■ PRODUCT IDENTIFICATION

①      ②      ③      ④      ⑤  
 MSCDRB - 0905 - 100 M □ □

- ① Product Code
- ② Dimensions
- ③ Inductance Code
- ④ Tolerance Code
- ⑤ Pattern Code

■ PRODUCT SERIES

MSCDRB-0403

MSCDRB-0905

MSCDRB-1507

Dimension in mm

Part No.	A	B	C	D	E	F
MSCDRB-0403	6.60Max	4.45Max	2.92Max	0.76	1.27	4.80
MSCDRB-0905	13.5Max	9.50Max	5.20Max	2.54	2.54	7.80
MSCDRB-1507	18.8Max	15.5Max	7.50Max	2.54	2.54	13.0

■ LAND PATTERNS

Dimension in mm			
Part No.	G	H	I
MSCDRB-0403	4.57	1.14	3.10
MSCDRB-0905	7.40	2.80	3.00
MSCDRB-1507	12.40	2.79	3.00

### ■ PRODUCT SPECIFICATIONS

Part No.	Inductance (μ H)	Test Frequency	DC Resistance(Ω)Max.			Permissible DC Current(A)Max.		
			0403	0905	1507	0403	0905	1507
1R0	1.0	100KHz	0.040	0.021		1.00	5.6	
1R5	1.5		0.045	0.022		0.90	5.2	
2R2	2.2		0.050	0.032		0.70	5.0	
3R3	3.3		0.055	0.039		0.60	3.9	
4R7	4.7		0.063	0.054		0.40	3.2	
6R8	6.8		0.065	0.075		0.18	2.8	
100	10		0.075	0.101	0.040	0.15	2.4	8.0
150	15		0.090	0.150	0.048	0.14	2.0	7.0
220	22		0.110	0.207	0.059	0.135	1.6	6.0
330	33		0.190	0.334	0.075	0.13	1.4	5.0
470	47		0.230	0.472	0.097	0.12	1.0	4.0
680	68			0.66	0.138		0.9	3.0
101	100		0.480	1.11	0.207	0.11	0.8	2.4
151	150		0.700	1.55	0.293	0.10	0.6	2.1
221	220		0.800	2.00	0.470	0.09	0.5	1.9
331	330		0.900		0.780	0.08		1.1
471	470				1.080			1.1
681	680				1.400			0.96
102	1000				2.010			0.80

1. TOLERANCE OF INDUCTANCE: 1.0~6.8 μ H ± 30%(N) 10~1000 μ H ± 20%(M)
2. The max. permissible DC current is the DC current applied which causes 10% reduction of its initial inductance value, or the coil temperature to rise by 40°C, whichever is lower.  
Operating temperature range-40°C~85°C.  
Electrical specifications at 25°C.